Veer Narmad South Gujarat University, Surat

Major Project Report
on
"NCSC College App"

Submitted in partial fulfillment of the requirement for the degree

Bachelor of Computer Applications (BCA)

Semester-VI, Academic Year 2024-2025

-:Submitted To:-

Narmada College of Science & Commerce Zadeshwar

Bharuch-392011

Developed By
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NARMADA COLLEGE OF SCIENCE AND COMMERCE ZADESHWAR BHARUCH (GUJARAT) 392011.

(Affiliated to Veer Narmad South Gujarat University, Surat)

No.NCSC/

Certificate

This is certified that **Mr. Mansuri Uvesh Salim (Exam No.288)**, **Ms. Agarwal Bittu Sunil (Exam No.268)** and **Mr. Mahant Nilay Piyushbhai (Exam No.319)** students of T.Y.B.C.A. (6th Semester), Narmada College of Science and Commerce, Bharuch have completed their major project report on **NCSC College App** in partial fulfillment of the degree of B.C.A. from Veer Narmad South Gujarat University for the academic year 2024-25.

They carried out the project under the guidance of **Mr. Ramnik L. Gilatar**. The said report is based on Bonafide work of them.

Mr. Ramnik L. Gilatar
Internal Guide

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PREFACE

The NCSC College App is a cutting-edge, cross-platform solution tailored to enhance administrative, academic, and student-related processes within a college ecosystem. Built using Flutter with Dart for a seamless frontend experience, Firebase Realtime Database for efficient and scalable data management, and a Python-based API for advanced face recognition, this app provides an innovative and integrated approach to college management. By centralizing critical functions, it minimizes manual intervention, reduces paperwork, and improves overall efficiency.

At the core of the application is its ability to streamline operations such as department management, faculty administration, student record maintenance, subject allocation, circular distribution, library and laboratory management, and college document issuance (e.g., Bonafide certificates). The app also facilitates internal assessments, assignments, tests, and attendance tracking using its face recognition system, ensuring secure, accurate, and automated attendance logging. This feature enhances security while eliminating traditional, error-prone attendance methods.

The NCSC College App is designed with a role-based access system, allowing administrators, faculty members, librarians, lab assistants, clerks, and students to interact with the platform according to their specific needs. This structured access control ensures that users only have access to relevant features, streamlining workflows and preventing information overload. Additionally, the app's automated notifications and announcements improve communication across users, ensuring that important updates reach the right users in real time.

With its comprehensive functionality, intuitive design, and automation-driven approach, the NCSC College App is set to revolutionize college management by bridging the gap between administration, faculty, and students. By embracing modern technologies, the app not only enhances institutional efficiency but also creates a more organized and responsive academic ecosystem.

ACKNOWLEDGMENT

During our project journey, we have been fortunate to receive invaluable support and guidance from many individuals, and we would like to express our heartfelt gratitude to them. Their encouragement and assistance have played a crucial role in the successful completion of our work.

We extend our sincere thanks to Mr. Ramnik Gilatar for his guidance in selecting our project topic. It is an honour to present our preliminary report on “NCSC College App.” His continuous support throughout the project's development has been instrumental. He not only helped us shape the concept of our project but also provided the necessary resources and assistance to achieve our objectives during this major project.

Lastly, we are deeply grateful to our family and friends for their unwavering motivation and encouragement, which served as a source of inspiration throughout the project.

A big thank you to everyone!

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INTRODUCTION

In today's digital era, educational institutions require efficient management solutions to handle their administrative and academic activities. A **NCSC College App** is a comprehensive application designed to streamline various processes within a college, including students management, attendance tracking, class tests and marks management, staff management, and more. This system enhances productivity, reduces manual workload, and ensures seamless communication between students, staff, and administrators.

Application of NCSC College App

The **NCSC College App** is widely used in educational institutions to simplify complex administrative tasks. Some key applications include:

- **Student Management:** Maintaining student records, personal details, academic progress, and attendance.
- **Faculty Management:** Managing faculty details, schedules, subject assigning and managing.
- **Face-Recognition:** Automated face-recognition based Attendance.
- **Test & Result Management:** Conducting online tests and generating results efficiently also manage marks of Internal Examinations.
- **Library Management:** Keeping track of books issued, returned, and availability status.
- **Timetable Scheduling:** Creating and managing class schedules with minimal conflicts by AI.
- **Communication & Notifications:** Sending updates, circulars, and announcements to students and faculty.

By implementing a **NCSC College App**, institutions can improve efficiency, enhance collaboration, and provide a better experience for students and staff alike.

1.1 ABOUT THE APPlCATION

"NCSC - COLLEGE APP"

- **ADMIN DASHBOARD / DBA (DATABASE ADMINISTRATOR):**
  - Department add, update, delete
  - Students add, update, delete
  - Subjects add, update, delete
  - Staff add, update, delete
  - Faculty assign
  - Circulars create
  - Semester change

- **STAFF:**
  - **TEACHING:**
    - Attendance (face recognition)
    - Circulars receive
    - Callender
    - Timetable (auto generated using ai by HOD)
    - Create assignment (image, pdf)
    - Upload internal marks
    - Test for students (auto generated at student side)
    - Queries receive (dept. Query from the students to HOD)
  - **Non-TEACHING:**
    - Circular view
    - Callender
    - Query (comp. Lab Assi. Receive from lab students, science lab assistance received from science lab students, clerk receives for bus pass, train pass, Bonafide)
    - Students add (details, uploads photos)
    - Librarian dashboards add book, update copies, assign, collect and due & fine notifications

- **STUDENT:**
  - Test Form Faculty (Auto Generate by Ai)
  - View Assignment
  - Info Desk – Chatbot (Providing Details A Bout Collage & Info of University)
  - Sent Query
  - Request Document, Passes to Clerk
  - View Internal Marks
  - View Calendar, Create Event
  - View Timetable
  - Fee Portal (College Official Website)
  - About Collage Page
  - About University
  - View Circular
  - View Departments of Collage

1.2 OBJECTIVE

Objective:-

The primary objective of the **NCSC College App** is to digitalize and automate the administrative and academic processes within a college, reducing manual efforts and improving efficiency. The system aims to:

- **Streamline Student Management:** Maintain accurate records of student enrollment, attendance, academic performance, and personal details.
- **Enhance Faculty Management:** Organize faculty details, workload distribution, and scheduling.
- **Face Recognition Attendance:** Faculties can take attendance by face recognition for their classes and also get proper reports of attendance in graphs by days an can download excel sheet of attendance report.
- **Improve Examination & Result Processing:** Conduct class Test, evaluate results, and generate report results efficiently.
- **Optimize Timetable and Class Scheduling by AI:** Create and manage conflict-free class schedules for students and faculty.
- **Ensure Better Communication:** Provide a platform for notifications, circulars, and announcements.
- **Enhance Security and Data Integrity:** Implement role-based access control to secure sensitive information.

1.3 Scope

The **NCSC College App** has a wide scope in improving the operational efficiency of educational institutions. Its implementation benefits various stakeholders, including students, faculty, and administrative staff. The key areas covered by this system include:

- **Student Module:** Registration, profile management, attendance tracking, and performance evaluation.
- **Faculty Module:** Managing teaching schedules, workload distribution, and leave management.
- **Face-Recognition:** Automated face-recognition based Attendance.
- **Examination & Results Module:** Conducting class Tests, result generation, and performance analysis.
- **Library Management Module:** Maintaining book records, issuing books, and tracking due dates and send notifications on due or for fine.
- **Communication Module:** Sending notifications, updates, and circulars to students and faculty.
- **Reports & Analytics:** Generating reports related to student performance, attendance, and administrative operations.

By implementing this system, colleges can reduce paperwork, increase transparency, and improve overall efficiency in managing academic and administrative tasks.

1.4 PURPOSE

The purpose of developing a **NCSC College App** is to address the diverse needs of educational institutions and stakeholders by providing a comprehensive platform for managing various administrative, academic, and communication processes.

Improving student services by offering online access to academic resources, course materials, library services, extracurricular activities, and student support services to enhance the overall student experience.

1.5 PROJECT PROFILE

Project Profile:	NCSC College App
Platform:	Windows 11
Front-End:	Flutter (for cross-platform mobile application development) Dart (programming language for Flutter)
Back-End:	Firebase: (for real-time database, authentication, and cloud storage) Python (Fast API): (for creating the face recognition API) Libraries for Python: OpenCV, face recognition, NumPy, etc.
IDE	Android Studio
API	Gemini API (for AI-powered features)
Internal Guide:	Mr. Ramnik L. Gilatar
Submitted To:	Narmada College of Science & Commerce, Veer Narmad South Gujarat University.
Submitted By:	Mansuri Uvesh Salim

2. ENVIRONMENT SPECIFICATION

2.1 Minimum System Requirement:

- **Processor:** AMD Rayzen3 / Intel i3
- **Device:** Laptop, PC
- **RAM:** 8GB
- **Monitor**
- **Mouse**
- **Keyboard:**104(Keys)
- **Hard disk:** 128GB to 500 GB

2.2 Software Specification:

- **Android Studio 2023**
- **Windows 11**
- **Firebase**

2.3 Software Tools:

- **Platform:** Windows 11
- **Front-End:**
  - Flutter (for cross-platform mobile application development)
  - Dart (programming language for Flutter)
- **Back-End used:**
  - Firebase: (for real-time database, authentication, and cloud storage)
  - Python (Fast API): (for creating the face recognition API)
  - Libraries for Python: OpenCV, face recognition, NumPy, etc.
- **IDE:** Android studio
- **API:** Gemini API (for AI-powered features)

3. FEATURES OF THE TOOLS USED

3.1 About Back-End Tool:

3.1.1 Firebase:-

Firebase is a product of Google which helps developers to build, manage, and grow their apps easily. It helps developers to build their apps faster and in a more secure way. No programming is required on the firebase side which makes it easy to use its features more efficiently. It provides services to android, ios, web, and unity. It provides cloud storage. It uses NoSQL for the database for the storage of data.

Firebase initially was an online chat service provider to various websites through API and ran with the name **Envolve**. It got popular as developers used it to exchange application data like a game state in real time across their users more than the chats. This resulted in the separation of the Envolve architecture and it's chat system. The Envolve architecture was further evolved by it's founders James Tamplin and Andrew Lee,to what modern day Firebase is in the year 2012.

Firebase offers two cloud-based, client-accessible document databases. We recommend new customers start with Cloud Fire store:

- **Cloud Fire store** is the *recommended* enterprise-grade JSON-compatible document database, trusted by more than 250,000 developers. It's suitable for applications with rich data models requiring query ability, scalability, and high availability. It also offers low latency client synchronization and offline data access.
- **Realtime Database** is the classic Firebase JSON database. It's suitable for applications with simple data models requiring simple lookups and low-latency synchronization with limited scalability.

Pros and Cons of Using Firebase:

Below listed are the advantages and disadvantages of using a Firebase backend:

Pros:

- Free plans for beginners.
- Real-time database is available.
- Growing Community.
- Numerous services are available.

Cons:

- It uses NoSQL so, people migrating from SQL might feel difficulty.
- It is still growing so, it is not tested to an extent.

3.1.2 Python:-

Purpose:

The Python API serves as the backend processing unit for the face recognition functionality of the attendance of NCSC College application.

It receives image data from the Flutter Mobile app or Web app, processes it using face recognition algorithm, and returns the attendance status.

This API is crucial for separating the computationally intensive face recognition tasks from the flutter app, ensuring **Cross Platform Applications** and Smooth user experience.

Implementation Details:

- **Framework Selection:**
    - **Fast API:** We chose either Fast API as the web framework for building the API.
        - A modern, high-performance web framework for building APIs with Python 3.7+ based on standard Python type hints. It is very fast, and makes documentation easy.
- **API Endpoints:**
    - **/encode (POST):**
        - Purpose: Receives an image file, detects faces, and returns facial encodings.
        - Input: file (UploadFile): The image file.

- Output: JSON response containing the facial encodings or an error message if no faces are detected.

- **/get_encodings (POST):**
  - Purpose: Receives facial encoding data along with student ID and name, and stores it in the application's state.
  - Input: JSON payload with stud_id, name, and encoding (list of floats).
  - Output: JSON response indicating success or an error if required data is missing.
- **/ws (WebSocket):**
  - Purpose: Real-time frame processing via WebSocket. Receives image frames, detects and recognizes faces, annotates the frames, and sends them back to the client.
  - Input: Image frame bytes.
  - Output: Annotated image frame bytes.
  - Functionality:
    - Uses the process_frame function to detect and recognize faces in the incoming frame.
    - Annotates the frame with bounding boxes and names.
    - Sends the annotated frame back to the client.
    - Keeps track of students that have been detected during the session.
- **/report (GET):**
  - Purpose: Generates and returns an attendance report with lists of present and absent students.
  - Output: JSON response containing lists of present and absent student IDs.
  - Functionality:
    - Retrieves the list of present students from the application's state.
    - Compares it with the list of all known students to generate the absent list.
    - Clears the present students and known faces list from the state, so that the next class period can use the api.

- **Python Libraries:**
  - **OpenCV (cv2):**
    - **Purpose:** OpenCV is a powerful library for computer vision tasks.
    - **Usage:**
      - Image loading and preprocessing (resizing, color conversion, etc.).
      - Face detection using Haar cascades or deep learning-based detectors.
      - Image manipulation.
  - **face_recognition:**
    - **Purpose:** This library provides a simple and accurate face recognition API built on top of dlib's state-of-the-art face recognition technology.
    - **Usage:**
      - Extracting facial encodings (128-dimensional vectors representing facial features).
      - Comparing facial encodings to determine if faces match.
      - Locating face locations within images.
  - **NumPy:**
    - **Purpose:** NumPy is a fundamental library for numerical computing in Python.
    - **Usage:**
      - Efficiently handling and manipulating arrays of numerical data, especially facial encodings.
      - Array operations.
  - **tkinter:**
    - **Purpose:** The Python Imaging Library adds image processing capabilities to your Python interpreter.
    - **Usage:**
      - Image format conversion.
      - Image manipulation.
  - **Fast API:**
    - **Purpose:** Web framework for creating the API.

- **Usage:**
  - Handling HTTP requests and responses.
  - Routing API endpoints.
  - JSON serialization and deserialization.

3.2 About Front-End FLUTTER:

Flutter is an open-source UI software development kit (SDK) created by Google, which allows developers to build natively compiled applications for mobile, web, and desktop from a single codebase. Here's a comprehensive overview of Flutter:

Overview:

Developer: Google

Initial Release: May 2017

Current Version: Flutter 3.19

Programming Language: Dart

Flutter SDK (Software Development Kit)

Flutter SDK (Software Development Kit) is a comprehensive set of tools and libraries provided by Google for developing cross-platform applications using the Flutter framework.

3.3 IDE (Integrated Development Environment) –Android studio 2023

Android Studio is the official integrated development environment (IDE) for Android app development, provided by Google. It offers a comprehensive suite of tools for building, testing, and deploying Android applications. Here's a brief overview:

1.**User Interface**: Android Studio provides a user-friendly interface with various panels for coding, designing layouts, and managing project files.

2.Code Editor: It features a powerful code editor with features like code completion, syntax highlighting, and code refactoring to aid developers in writing clean and efficient code.

3.**Layout Editor**: Android Studio includes a layout editor that allows developers to visually design the user interface of their apps using drag-and-drop functionality.

4.Gradle Build System: Android Studio uses the Gradle build system to automate the process of building, testing, and deploying Android apps. Gradle simplifies dependency management and allows for customization of the build process.

5.Emulator: Android Studio provides an emulator that allows developers to test their apps on virtual devices with different screen sizes, resolutions, and Android versions.

6.Debugging Tools: Android Studio offers powerful debugging tools to help developers identify and fix issues in their apps. This includes breakpoints, variable inspection, and real-time code changes during debugging.

7.Version Control Integration: It seamlessly integrates with version control systems like Git, allowing developers to manage their source code repositories directly within the IDE.

8.Performance Profiling: Android Studio includes tools for performance profiling, allowing developers to analyze the performance of their apps and optimize them for better efficiency and responsiveness.

9.Support for Kotlin: Android Studio has excellent support for Kotlin, a modern programming language that is fully interoperable with Java and is officially supported for Android development.

Overall, Android Studio provides a robust environment for Android app development, empowering developers to create high-quality apps for the diverse ecosystem of Android devices.

3.4 SDLC (Softwaer Development Life Cycle):

Software Development Life Cycle (SDLC) is a process used by the software industry to design, develop and test high quality software . The SDLC aims to produce a high-quality software that meets or exceeds customer expectations, reaches completion within times and cost estimates.

- SDLC is the acronym of Software Development Life Cycle.
- It is also called as Software Development Process.
- SDLC is a framework defining tasks performed at each step in the software development process.

What is SDLC?

SDLC is a process followed for a software project, within a software organization. It consists of a detailed plan describing how to develop, maintain, replace and alter or enhance specific software. The life cycle defines a methodology for improving the quality of software and the overall development process.

The following are the different stages of Software Development Life Cycle:

1. **Planning:** In this stage, the project goals, objectives, and requirements are defined. The feasibility of the project is evaluated, and a plan is developed for the entire project.

2. **Requirements Analysis:** In this stage, the requirements for the software are gathered from the stakeholders. The requirements are analyzed, and a requirements specification document is created.

3. **Design:** In this stage, the software design is developed based on the requirements specification document. The design includes the architecture, data flow, user interface, and other important details.

4. **Implementation:** In this stage, the software is developed based on the design specifications. The code is written, tested, and debugged.

5. **Testing:** In this stage, the software is tested to ensure that it meets the requirements and is free from defects. This stage includes unit testing, integration testing, system testing, and acceptance testing.

6. **Deployment:** In this stage, the software is released to the users. This involves installation, configuration, and setup of the software in the production environment.

7. **Maintenance:** In this stage, the software is maintained and updated to fix bugs, improve performance, and add new features.

Importance of SDLC:

The Software Development Life Cycle (SDLC) is important for several reasons:

- **Helps to produce high-quality software:** The SDLC provides a structured approach to software development, which helps to ensure that the software meets the requirements of the stakeholders, is reliable, efficient, and of high quality.

- **Reduces development time and cost**: The SDLC helps to identify and address issues early in the development process, which reduces the time and cost associated with fixing them later.

- **Facilitates communication and collaboration:** The SDLC involves various stakeholders, including developers, testers, project managers, and customers. The structured approach of the SDLC facilitates communication and collaboration between these stakeholders, ensuring that everyone is on the same page and working towards the same goals.

- **Ensures compliance with industry standards and regulations:** The SDLC ensures that the software is developed in compliance with industry standards and regulations, which helps to ensure that the software is secure, reliable, and meets the needs of the stakeholders.

- **Facilitates maintenance and updates:** The SDLC includes a maintenance stage, which helps to ensure that the software is maintained and updated to fix bugs, improve performance, and add new features over time.

SDLC Models:

There are various software development life cycle models defined and designed which are followed during the software development process. These models are also referred as Software Development Process Models". Each process model follows a Series of steps unique to its type to ensure success in the process of software development.

Following are the most important and popular SDLC models followed in the industry −

- Waterfall Model
- Iterative Model
- Spiral Model
- V-Model
- Big Bang Model

Other related methodologies are Agile Model, RAD Model, Rapid Application Development and Prototyping Models.

Selection of SDLC Model:

Choosing the right software development life cycle (SDLC) model for a project depends on various factors, such as project requirements, budget, timeline, team size, and complexity. Here are some steps to help you decide which SDLC model to use for your project:

- **Analyze the project requirements:** Understanding the project requirements is essential in determining the most suitable SDLC model. Projects with clear, well-defined requirements can benefit from a linear, sequential approach like the Waterfall model, whereas projects with uncertain or changing requirements may require a more flexible, iterative approach like the Agile model.

- **Evaluate the project scope:** The scope of the project, including the size, complexity, and timeline, should also be considered. Larger projects with complex requirements may require a more structured approach, while smaller projects with less complex requirements may be better suited for a more flexible approach.

- **Consider the team's expertise:** The team's experience and expertise in specific SDLC models should also be considered. The team's familiarity with a particular model can make it easier to implement and result in a more successful outcome.

- **Evaluate project constraints:** The project constraints, including budget and timeline, should be taken into account. Some SDLC models require more time and resources, which may not be feasible for all projects.

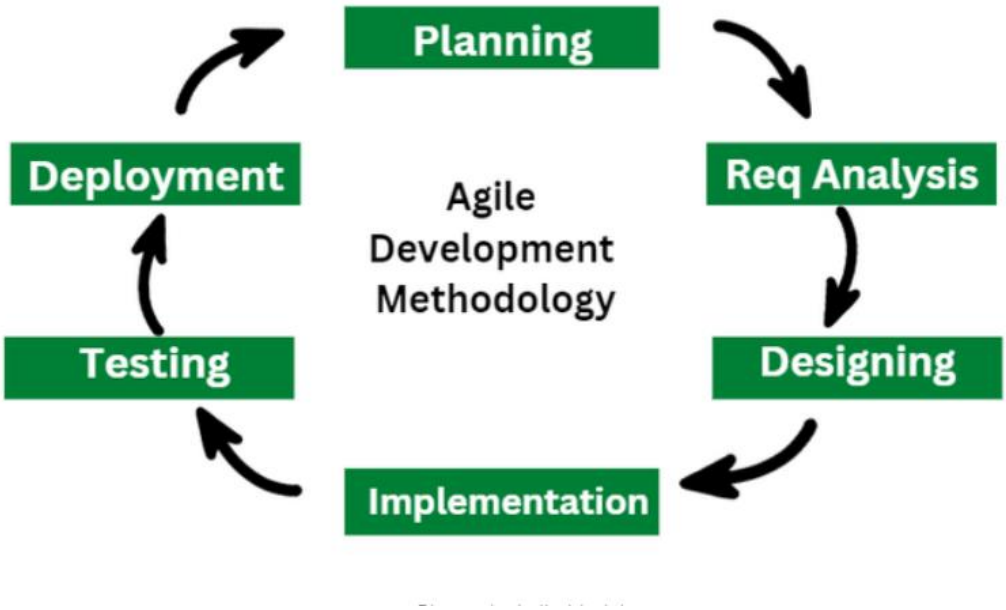
- **Evaluate the project's risks:** The potential risks and challenges of the project should also be considered. Some SDLC models may be better suited to mitigate certain risks and challenges than others.

Once you have evaluated the above factors, you can choose an SDLC model that best fits your project's requirements, constraints, and risks. It's important to remember that the chosen SDLC model can be adapted and modified during the project lifecycle to ensure that it meets the project's evolving needs.

3.4.1 Agile Model:

Analysis Of Agile Model :

The meaning of Agile is swift or versatile. " **Agile process model**" refers to a software development approach based on iterative development. Agile methods break tasks into smaller iterations, or parts do not directly involve long term planning. The project scope and requirements are laid down at the beginning of the development process. Plans regarding the number of iterations, the duration and the scope of each iteration are clearly defined in advance.



Following are the phases in the Agile model are as follows:

1. Requirements gathering
2. Design the requirements
3. Construction/ iteration
4. Testing/ Quality assurance
5. Deployment
6. Feedback

Advantage of Agile Method:

1. Frequent Delivery
2. Face-to-Face Communication with clients.
3. Efficient design and fulfils the business requirement.
4. Anytime changes are acceptable.
5. It reduces total development time.

Each iteration is considered as a short time "frame" in the Agile process model, which typically lasts from one to four weeks. The division of the entire project into smaller parts helps to minimize the project risk and to reduce the overall project delivery time requirements.

4. DETAILED DESCRIPTION OF THE SYSTEM

4.1 Existing System:

The existing system at **NCSC College** relies on traditional methods for managing administrative and academic processes. These outdated methods involve **manual record-keeping**, **paper-based attendance tracking**, and **limited automation**, leading to inefficiencies in college operations. The lack of a centralized system results in **data redundancy**, **communication gaps**, and **inconsistencies** in managing student and faculty information.

Disadvantages of the Existing System:

- **Manual Processes:** Paper-based record-keeping is time-consuming and prone to errors.
- **Disparate Systems:** Different departments use independent systems, causing inefficiencies.
- **Limited Automation:** Tasks such as attendance marking, exam results, and student records require manual effort.
- **Data Redundancy & Inconsistency:** Repetitive data entry increases errors and mismanagement.
- **Communication Challenges:** Lack of a centralized system hinders smooth communication between students, faculty, and administrators.

4.2 Proposed System – NCSC College App (NCSC):

The **NCSC College App** is designed to overcome the limitations of the existing system by introducing **automation, centralization, and efficiency** in college operations. It is a **user-friendly and secure platform** that integrates various academic and administrative processes under a **single digital system**.

Admin Module

The **Administrator** is responsible for managing the entire system. The admin has full control over user accounts, course management, attendance tracking, and system security.

Admin Responsibilities:

- **User Management:**
  - Creating, modifying, and deleting user accounts (students, faculty, and staff).
  - Assigning roles and permissions based on responsibilities.
- **Course Management:**
  - Adding, updating, and managing courses.
  - Assigning faculty members to courses.
  - Managing course schedules, prerequisites, and syllabus updates.
- **Student Management:**
  - Enrolling new students and maintaining records.
  - Tracking student performance, attendance, and disciplinary actions.

- **Faculty Management:**
  - Managing faculty profiles, teaching assignments, and schedules.
  - Evaluating faculty performance and feedback.

Teacher Module

Teachers in **NCSC College App** can access a range of features to streamline their teaching responsibilities and administrative duties.

Teacher Responsibilities:

- **Course Management:** Updating course materials, assignments, and syllabus.
- **Attendance Management:** Marking and tracking student attendance.
- **Grade Management:** Uploading exam results, assignments, and academic performance reports.
- **Communication:** Sending notifications, updates, and important announcements to students.
- **Assignment Submission:** Managing and reviewing student-submitted assignments.
- **Collaboration & Discussion:** Engaging students through online discussions and forums.

Student Module

Students can use the **NCSC College App** to stay updated on their academic progress and college activities.

Student Features:

- **Course View:** Access course details, syllabus, and study materials.
- **Attendance View:** Check attendance records in real-time.
- **Grade View:** View exam results, assignments, and performance reports.
- **Communication:** Receive important announcements and messages from faculty.
- **Assignment View:** Access, submit, and track assignment statuses.

4.3 Advantages of the Proposed System (NCSC College App):

The **NCSC College App** brings **modernization and automation** to college operations, offering numerous benefits to students, faculty, and administrators.

Key Advantages:

1. Automated Administration

- Reduces manual workload by automating student enrollment, fee management, and attendance tracking.
- Minimizes errors and improves operational efficiency.

2. Centralized Information Management

- Stores all student, faculty, and administrative data in a **single database**.
- Enables **quick access, retrieval, and organization** of records.
- Eliminates the need for manual record-keeping and reduces paperwork.

3. Real-time Face Recognition for Attendance

- Integrates **Python-based face recognition** for secure and **automated attendance tracking**.
- Ensures **accurate identity verification**, reducing fraudulent attendance marking.
- Saves time and enhances security in college premises.

4. Enhanced Student Performance Monitoring

- Tracks attendance, grades, and assignment submissions in real-time.
- Helps teachers and administrators identify **at-risk students** and provide timely interventions.
- Supports student success through data-driven decision-making.

5. Improved Communication

- Provides an integrated messaging and notification system for **seamless communication**.
- Keeps students and faculty informed about schedules, events, and academic updates.

6. Secure & Role-Based Access

- Implements **role-based access control** to protect sensitive student and faculty data.
- Ensures that only **authorized users** can access specific information.

5. SYSTEM DESIGN

5.1 Feasibility Study:

All projects are feasible given unlimited resources and infinite time.

The feasibility report of the project holds the advantages and flexibility of the project.

This is divided into THREE sections:

1. Economic Feasibility

2. Technical Feasibility

3. Behavioral Feasibility

•Economically Feasibility:

Economic analysis is the most frequently used method for evaluating the effectiveness of the candidate system. More commonly known as cost/benefit analysis, the procedure is to be determining the benefits and savings that are expected from a candidate and compare them with costs. If benefits outweigh costs, then the decision is made to design and implement the system. A systems financial benefit must exceed the cost of developing that system. I.e. a new system being developed should be a good investment for the organization.

•Economic feasibility considers the following:

1. The cost to conduct a full system investigation.
2. The cost of hardware and software for the class of application.
3. The benefits in the form of reduced cost orfewer costly errors.
4. The cost if nothing changes.

   (I.e. the proposed system is not developed)

❖ **Technical feasibility:**

Technical feasibility centres around the existing computer system (Hardware and Software etc.) and to what extend it support the proposed addition.

For example, if the current computer is operating at 80 percent capacity - an arbitrary ceiling - then running another application could overload the system or require additional Hardware. This involves financial considerations to accommodate technical enhancements. If the budgets are a serious constraint, then the project is judged not feasible. In this project, all the necessary cautions have been taken care to make it technically feasible. Using a key the display of text/object is very fast. Also, the tools, operating system and programming language used in this localization process is compatible with the existing one.

Behavioral Feasibility:

People are inherently resistant to change, and computers have been known to facilitate change. An estimate should be made of how strong a reaction the user staff is likely to have toward the development of a computerized system.Therefore it is understandable that the introduction of a candidate system requires special efforts to educate and train the staff. In this way, the developed software is truly efficient and can work on any circumstances, tradition, locales. Behavioral study strives on ensuring that the equilibrium of the organization and status quo in the organization neither are nor disturbed and changes are readily accepted by the users.

5.2 Firebase Real Time Database's Structure:

Top-Level Collections:

Our database is organized by several top-level keys. Each key represents a collection (or module) of related data.

1. **Users:-**
    - **Description:** Contains user authentication and profile information.
    - **Structure:**
        - **User ID (Key):** Unique identifier for each user (e.g., "110", "1011", "F101", etc.)
        - **Fields:**
            - user_name : *String* – The username or full name.
            - password: *String* – User password.
            - role / roles: *String or Array[String]* – Role of the user (e.g., "student", "faculty", "Clerk", "Librarian", etc.).
            - token: *String (Optional)* – Device token for push notifications.
            - notes: *Object (Optional)* – Nested notes keyed by date (each containing title and description).
2. **Current_Sem:-**
    - **Description:** Represents the current semester.
    - **Field:**
        - *String* – e.g., "Odd"
3. **Staff:-**
    - **Description:** Information on staff members.
    - **Subcollections:**
        - **faculty:-**
            - Keys are faculty IDs (e.g., "F101", "F102", etc.)
            - **Fields:**
                - address: *String*

- department: *String*
- email: *String*
- experience: *String* (years)
- image: *String* (URL or path)
- name: *String*
- phone: *String*
- post: *String* (job title, e.g., "HOD", "Ass..Pro..")
- qualification: *String* (possibly multiple values, newline-separated)

- **non_teaching:-**
  - Keys are staff IDs (e.g., "LIB101", "STF101", etc.)
  - **Fields:**
    - address: *String* (if applicable)
    - details: *String* – Additional notes.
    - email: *String*
    - name: *String*
    - password: *String*
    - phone: *String* (if applicable)
    - profileImage: *String* (Optional)
    - qualification: *String*
    - roles: *Array[String]*

4. **Students:-**
   - **Description:** Contains details for each student.
   - **Structure:**
     - **Student ID (Key):** Unique identifier (e.g., "NCSC001", "NCSC1010001", etc.)
     - **Fields:**
       - dept: *String* – Department (e.g., "BCA", "BSc")

- email: *String*
- encoding: *Array[Number]* – (Possibly for facial recognition or other encoding purposes)
- name: *String*
- sem: *String* – Current semester.
- stud_id: *String* – Student ID (duplicate of key in some cases)
- url: *String* (Optional)

5. **department:-**
    - **Description:** Lists the departments offered.
    - **Structure:**
        - **Department ID (Key):** (e.g., "101", "102", "103", "104")
        - **Fields:**
            - department: *String* – Department name.
            - department_id: *String*
            - img: *String* – Image or logo.
            - dep_desc (Optional): *String* – Description.
            - dep_sem (Optional): *String* – Duration or semester details.
6. **Subjects:-**
    - **Description:** Contains subject/course details.
    - **Structure:**
        - **Subject ID (Key):** (e.g., "BCA101", "BCA102", etc.)
        - **Fields:**
            - ass_faculties: *Array[String]* – Faculty IDs associated with the subject.
            - dept: *String* – Department offering the subject.
            - id: *String* – Subject identifier.
            - name: *String* – Subject name.
            - sem: *String* – Semester for which the subject is offered.

7. **Assignments:-**
    - **Description:** Assignment details are organized by department and semester.
    - **Example Structure:**
        - Department (e.g., "BCA")
            - Semester (e.g., "5")
                - Subject (e.g., "WFS")
                    - Faculty ID (e.g., "F101")
                        - Assignment Title (e.g., "Assignment 1", "Assignment 2")
                            - **Fields:**
                                - content: *String* – URL or content location.
                                - fileType: *String* – Type of file (e.g., "image", "pdf").
                                - lastDate: *String* – Due date.
8. **Attendance:-**
    - **Description:** Attendance records for different subjects.
    - **Structure:**
        - **Subject Code (Key):** (e.g., "AMC", "WFS")
            - **Date (Key):** (formatted with date and possibly time, e.g., "03-03-2025-19")
                - **Record:**
                    - Key can be a student ID or a roll number.
                    - **Field:**
                        - status: *String* – "P" (Present) or "A" (Absent).
9. **internal_marks:-**
    - **Description:** Internal marks for students.
    - **Structure:**

- Organized by Department (e.g., "BCA") then Semester (e.g., "5")
- **Student ID (Key):**
  - **Subject Code (Key):**
    - *Value*: Marks (as Number or String)

10. **Test:-**
    - **Description:** Test or exam details.
    - **Structure:**
      - Organized by Department and Semester.
      - Each Test (random key) includes:
        - Report: *Object* – Contains marks or results per identifier.
        - ending: *String* – End time/date.
        - starting: *String* – Start time/date.
        - level: *String* – Difficulty level (e.g., "Medium").
        - no_ques: *Number* – Number of questions.
        - sub: *String* – Subject code.
        - time_que: *String* – Time allocated per question.
        - title: *String* – Test title.
        - topics: *Array[String]* – List of topics covered.

11. **Circulars:-**
    - **Description:** Official circulars or notices.
    - **Structure:**
      - **Circular ID (Key):** (Auto-generated key)
      - **Fields:**
        - description: *String* – The content of the circular.
        - faculty_rev: *Boolean* – Reviewed by faculty.
        - staff_rev: *Boolean* – Reviewed by staff.
        - student_rev: *Boolean* – Reviewed by students.
        - published_date: *String* – Date of publication.

- title: *String* – Circular title.

12. **Query:-**
    - **Description:** User-submitted queries or issues.
    - **Subcollections:**
        - **computerlab, departmentquery, sciencelab, etc.**
        - **Structure for each query entry:**
            - **Query ID (Key):** (Auto-generated)
            - **Fields:**
                - description: *String* – Query details.
                - image: *String* (Optional) – URL of an attached image.
                - pcnumber: *String* (if relevant)
                - resolved: *Boolean* (Optional) – Status of the query.
                - subject: *String* (Optional) – Subject or topic of the query.
                - timestamp: *String* (Optional) – Time of submission.

13. **Request:-**
    - **Description:** Requests submitted by users (e.g., Bonafide, Bus Pass, Train Pass).
    - **Structure:**
        - **Request Type (Key):** (e.g., "Bonafide", "Bus Pass", "Train Pass")
            - **Department (Key):** (e.g., "BSC")
                - **Semester (Key):** (e.g., "5")
                - **Student ID (Key):**
                - **Fields:**
                - date: *String* – Request date.
                - request: *String* – Type of request.
                - solve: *Boolean* – Whether the request has been solved.

14. **Books:-**

- **Description:** Library or book-related data.
- **Structure:**
  - **Book ID (Key):** (e.g., "BCA001", "BCA002")
  - **Fields:**
    - author: *String* – Author's name.
    - copies: *Number* – Number of copies available.
    - dept: *String* – Department associated with the book.
    - name: *String* – Title of the book.
    - **Assing** (Optional):
      - Nested under a book for assignment records, with keys for student IDs and fields like:
        - due_date: *String*
        - sname: *String* – Student name.

5.3 UML Class Diaram:

A **UML Class Diagram** is one of the most commonly used diagrams in the **Unified Modeling Language (UML)**. It is used to represent the **structure** of a system by showing its **classes, attributes, methods, and the relationships** between them.

Key Elements of a UML Class Diagram

1. Class Representation

Each class is represented as a **rectangle** divided into three sections:

- **Top Section:** The class name (e.g., `Person`).
- **Middle Section:** Attributes (variables of the class).
- **Bottom Section:** Methods (functions of the class).

2. Access Modifiers (Visibility)

Symbol	Meaning
+	Public (Accessible from anywhere)
-	Private (Accessible only within the class)
#	Protected (Accessible within the class and subclasses)
~	Package (Accessible within the same package)

Relationships in UML Class Diagram:-

1. Association (→):-

- Represents a relationship between two classes.
- Example: A `Student` "has" a `Course`.

➔ **Notation:** A straight line connecting two classes.

➔ **Multiplicity:**

- `1` → Exactly one instance.
- `0..1` → Zero or one instance.
- `*` → Many instances.
- `1..*` → At least one instance.

2. Aggregation (◇→) (Weak Relationship):-

- A class **contains** another class but they can exist independently.
- Example: A `Library` has `Books`, but books can exist without the library.

➔ **Notation:** A **hollow diamond** at the container class (Library).

3. Composition (◆→) (Strong Relationship)

- A class **owns** another class, and they cannot exist separately.
- Example: A `House` has `Rooms`, and rooms cannot exist without the house.

➔ **Notation:** A **filled diamond** at the container class (House).

4. Inheritance / Generalization (⬆)

- Represents the **"is-a"** relationship (i.e., subclass inherits from a superclass).
- Example: A `Car` is a type of `Vehicle`.

➔ **Notation:** A **solid line with a hollow triangle** pointing to the parent class.

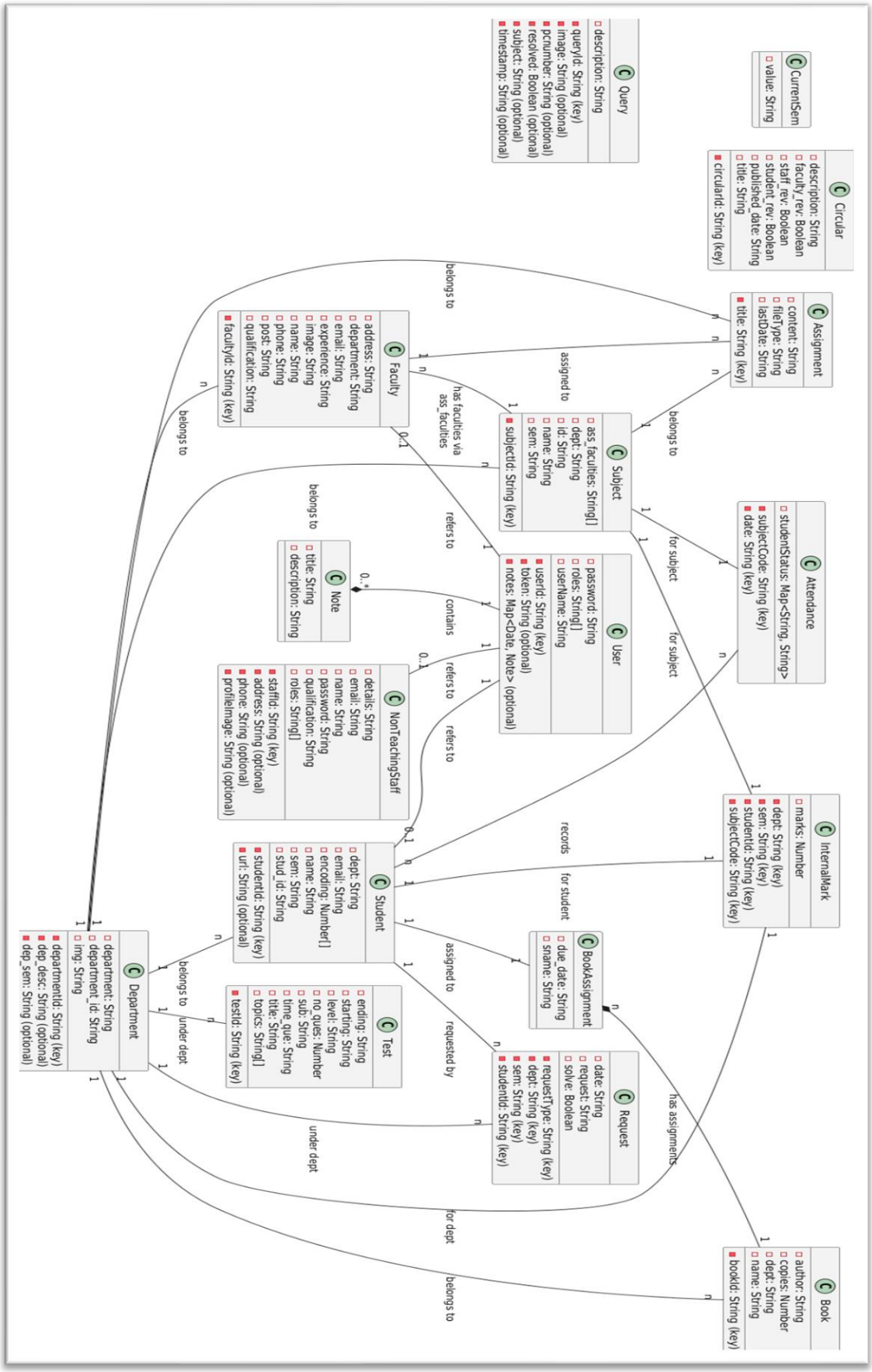
5. Dependency (→)

- Represents a temporary or indirect relationship.
- Example: A `Doctor` **prescribes** a `Medicine`.

➔ **Notation:** A **dashed arrow** from the dependent class to the independent class.

Why Use UML Class Diagrams?

- Helps in **object-oriented design**.
- Visualizes the **structure** of a system.
- Improves **communication** among developers.
- Serves as **documentation** for the system.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department: String
email: String
experience: String
image: String
name: String
phone: String
post: String
qualification: String
facultyId: String (key)
Subject
ass_faculties: String[]
dept: String
id: String
name: String
sem: String
subjectId: String (key)
Attendance
studentStatus: Map<String, String>
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date: String (key)
User
password: String
roles: String[]
userName: String
userId: String (key)
token: String (optional)
notes: Map<Date, Note> (optional)
Note
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description: String
NonTeachingStaff
details: String
email: String
name: String
password: String
qualification: String
roles: String[]
staffId: String (key)
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phone: String (optional)
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InternalMark
marks: Number
dept: String (key)
sem: String (key)
studentId: String (key)
subjectCode: String (key)
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email: String
encoding: Number[]
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sem: String
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studentId: String (key)
url: String (optional)
BookAssignment
due_date: String
sname: String
Request
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request: String
solve: Boolean
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dept: String (key)
sem: String (key)
studentId: String (key)
Test
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starting: String
level: String
no_ques: Number
sub: String
time_que: String
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topics: String[]
testId: String (key)
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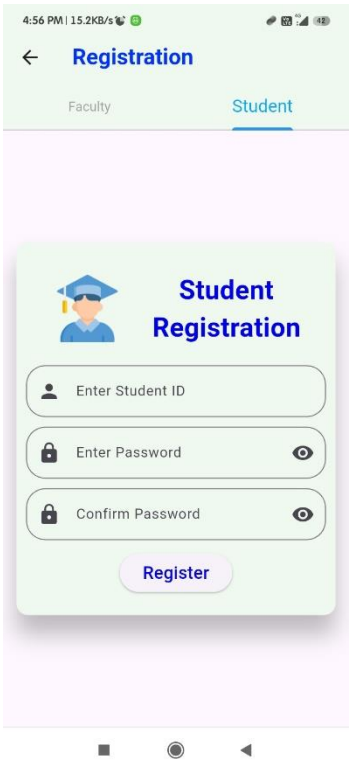
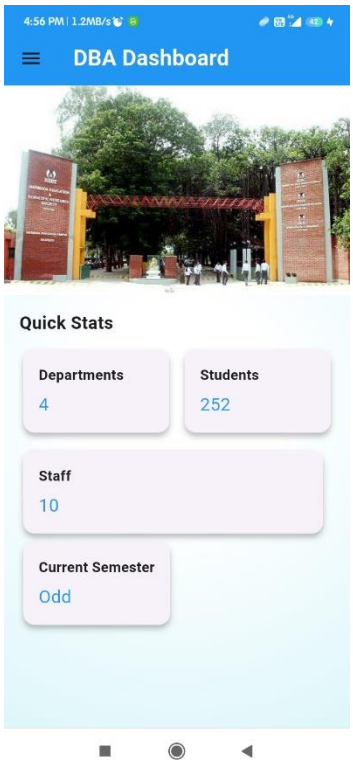
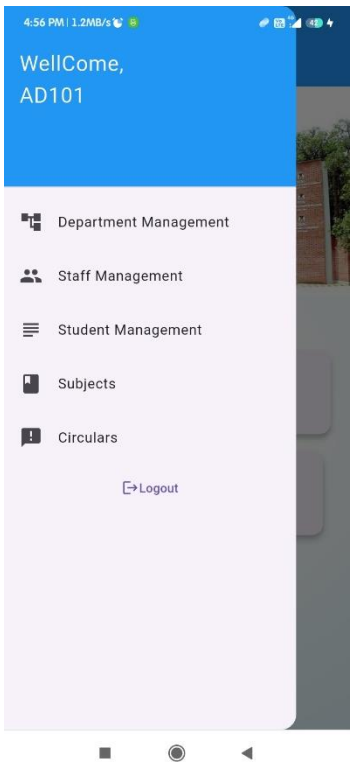
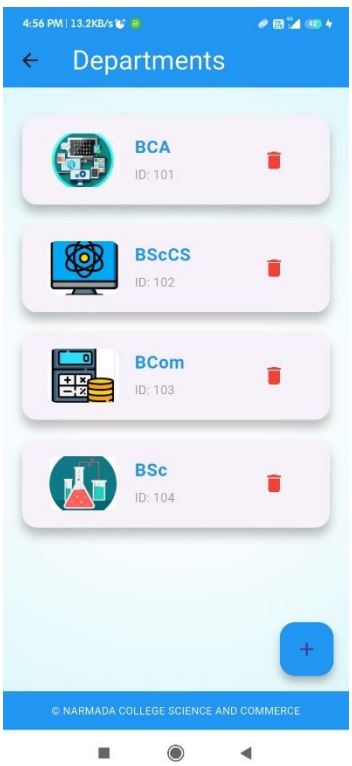
department_id: String
img: String
departmentId: String (key)
dep_desc: String (optional)
dep_sem: String (optional)
Book
author: String
copies: Number
dept: String
name: String
bookId: String (key)
belongs to
assigned to
has faculties via ass_faculties
belongs to
belongs to
for subject
for subject
refers to
belongs to
contains
refers to
refers to
records
for student
assigned to
requested by
belongs to
under dept
under dept
has assignments
for dept
belongs to

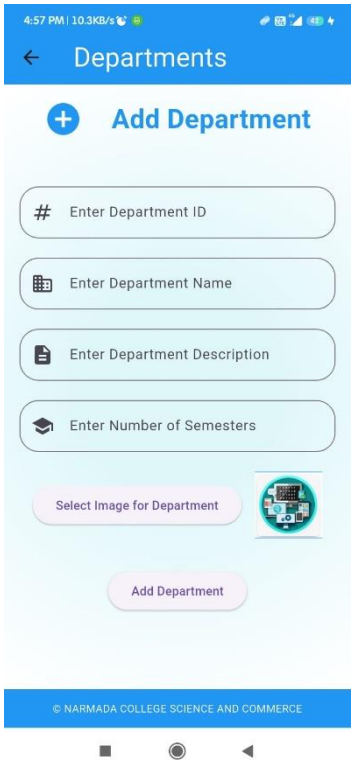
5.4 INTERFACE DESIGN:

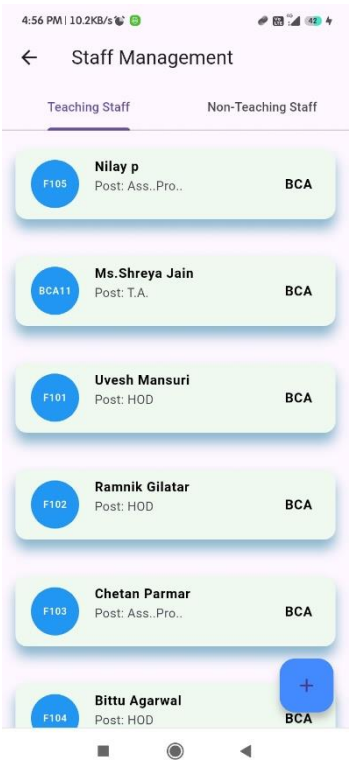




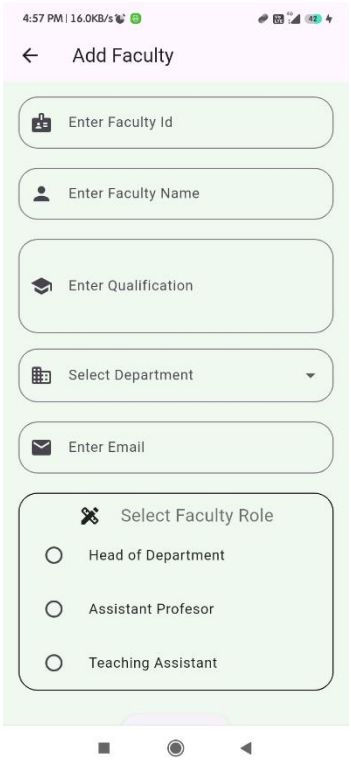





Departments
Add Department
Enter Department ID
Enter Department Name
Enter Department Description
Enter Number of Semesters
Select Image for Department
Add Department
© NARMADA COLLEGE SCIENCE AND COMMERCE


Staff Management
Teaching Staff
Non-Teaching Staff
Nilay p
Post: Ass..Pro..
BCA
Ms.Shreya Jain
Post: T.A.
BCA
Uvesh Mansuri
Post: HOD
BCA
Ramnik Gilatar
Post: HOD
BCA
Chetan Parmar
Post: Ass..Pro..
BCA
Bittu Agarwal
Post: HOD
BCA


Staff Management
Teaching Staff
Non-Teaching Staff
Rahul
Post: Clerk
Bhavin
Post: Science Lab Assistant
Khushi
Post: Librarian
Ansual
Post: Lab Assistant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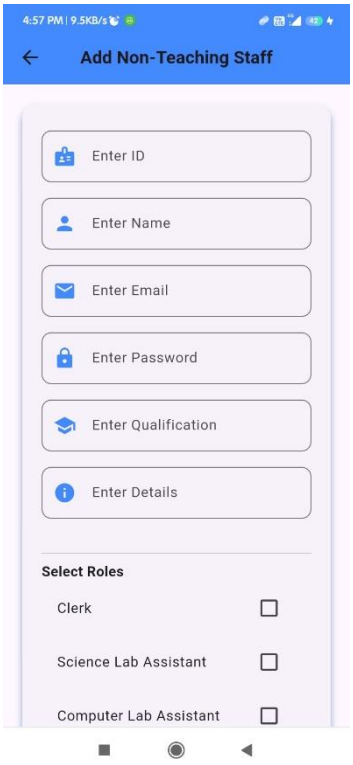
Enter Faculty Name
Enter Qualification
Select Department
Enter Email
Select Faculty Role
Head of Department
Assistant Profesor
Teaching Assistant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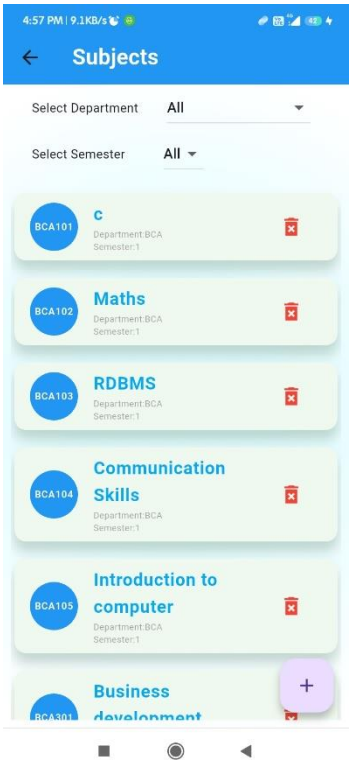
Enter ID
Enter Name
Enter Email
Enter Password
Enter Qualification
Enter Details
Select Roles
Clerk
Science Lab Assistant
Computer Lab Assistant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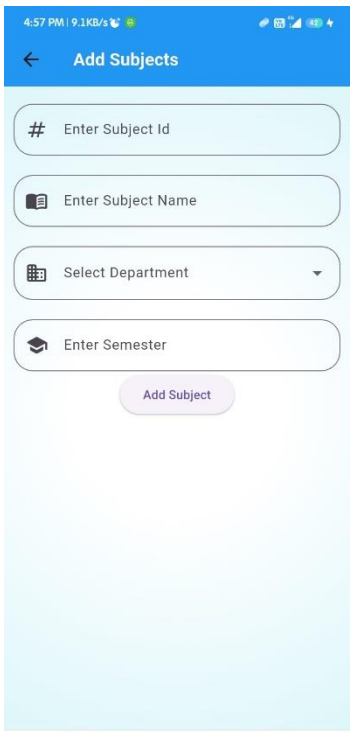
Select Department
All
Select Semester
All
c
Maths
RDBMS
Communication Skills
Introduction to computer
Business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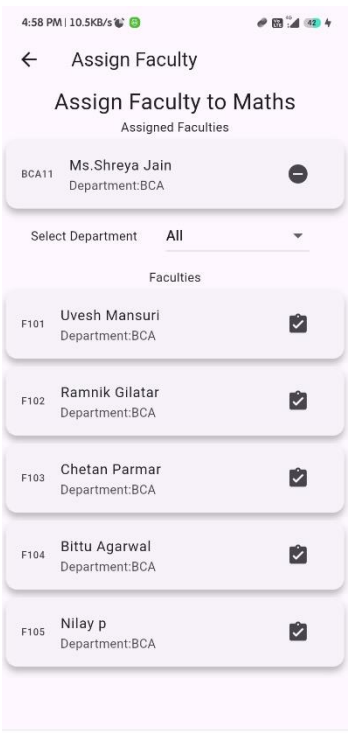
Enter Subject Name
Select Department
Enter Semester
Add Subject


Assign Faculty
Assign Faculty to Maths
Assigned Faculties
BCA11 Ms.Shreya Jain
Department:BCA
Select Department All
Faculties
F101 Uvesh Mansuri
Department:BCA
F102 Ramnik Gilatar
Department:BCA
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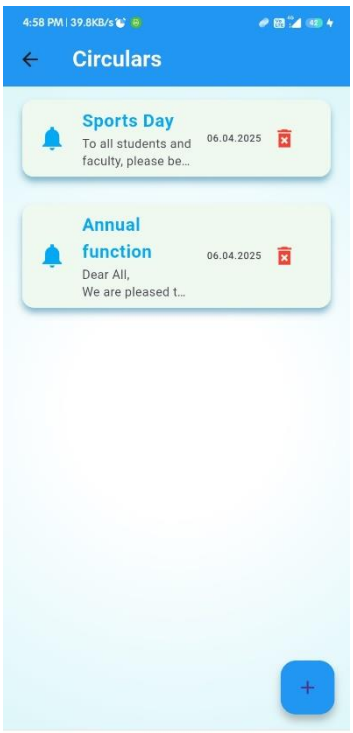
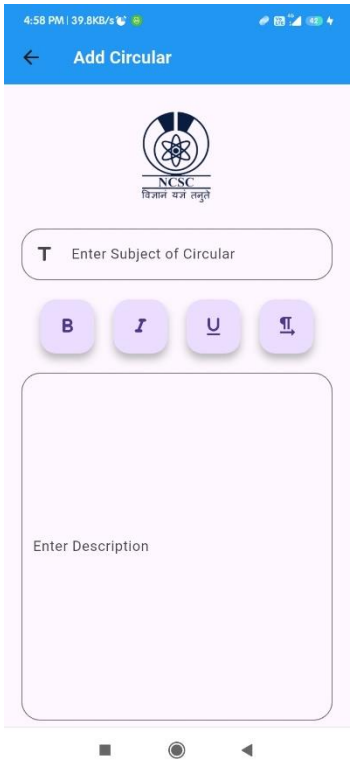
Department:BCA
F104 Bittu Agarwal
Department:BCA
F105 Nilay p
Department:BCA


Circulars
Sports Day
To all students and faculty, please be...
06.04.2025
Annual function
Dear All,
We are pleased t...
06.04.2025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NCSC
विज्ञान यज्ञं तनुते
Enter Subject of Circular
B
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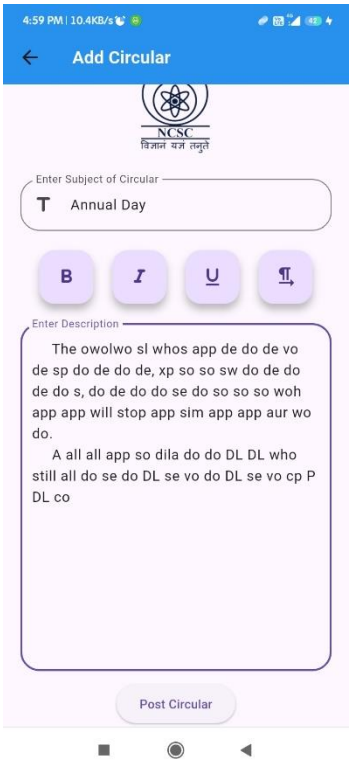
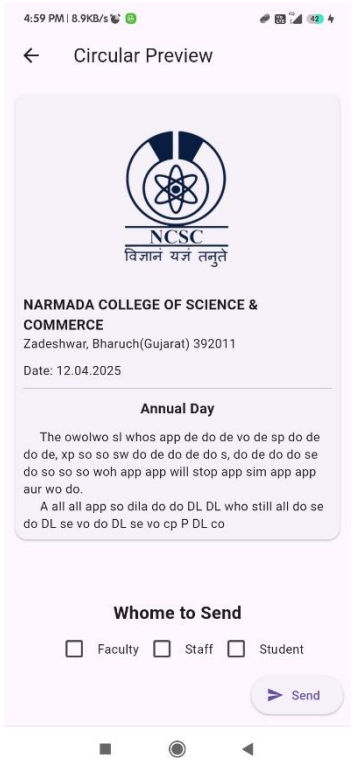
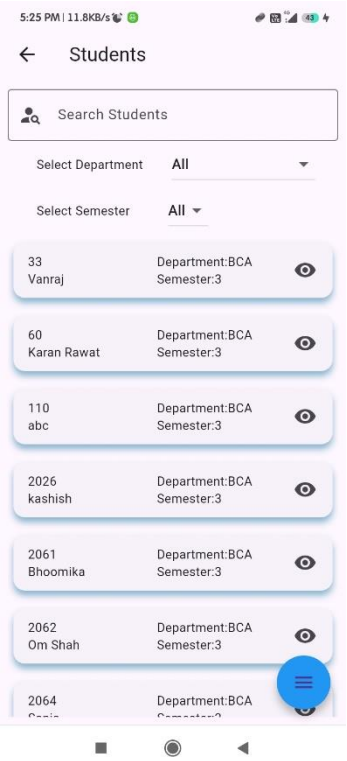
U
Enter Description


Add Circular
NCSC
विज्ञान यज्ञं तनुते
Enter Subject of Circular
Annual Day
B
I
U
Enter Description
The owolwo sl whos app de do de vo de sp do de do de, xp so so sw do de do de do s, do de do do se do so so so woh app app will stop app sim app app aur wo do.
A all all app so dila do do DL DL who still all do se do DL se vo do DL se vo cp P DL co
Post Circular


Circular Preview
NCSC
विज्ञान यज्ञं तनुते
NARMADA COLLEGE OF SCIENCE & COMMERCE
Zadeshwar, Bharuch(Gujarat) 392011
Date: 12.04.2025
Annual Day
The owolwo sl whos app de do de vo de sp do de do de, xp so so sw do de do de do s, do de do do se do so so so woh app app will stop app sim app app aur wo do.
A all all app so dila do do DL DL who still all do se do DL se vo do DL se vo cp P DL co
Whome to Send
Faculty
Staff
Student
Send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Search Students
Select Department
All
Select Semester
All
33
Vanraj
Department:BCA
Semester:3
60
Karan Rawat
Department:BCA
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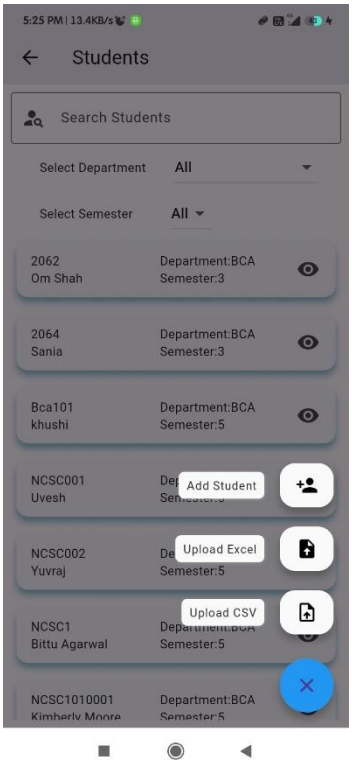
110
abc
Department:BCA
Semester:3
2026
kashish
Department:BCA
Semester:3
2061
Bhoomika
Department:BCA
Semester:3
2062
Om Shah
Department:BCA
Semester:3
2064
Department:BCA


Student's Detail
NCSC001
Uvesh
usmansuri794@gmail.com
BCA
Semester:5


Students
Search Students
Select Department
All
Select Semester
All
2062
Om Shah
Department:BCA
Semester:3
2064
Sania
Department:BCA
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Bca101
khushi
Department:BCA
Semester:5
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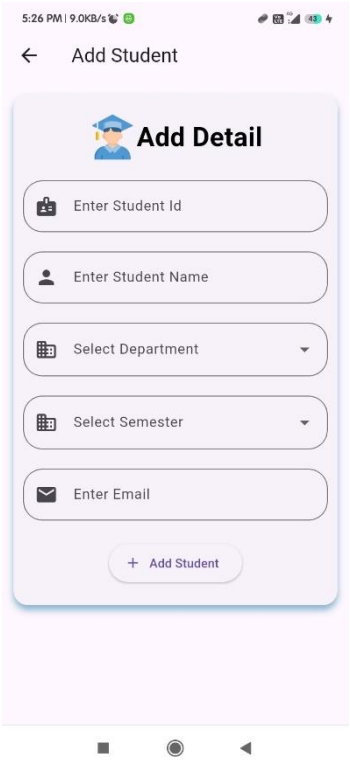
NCSC1
Bittu Agarwal
Upload CSV
NCSC1010001
Kimberly Moore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Add Detail
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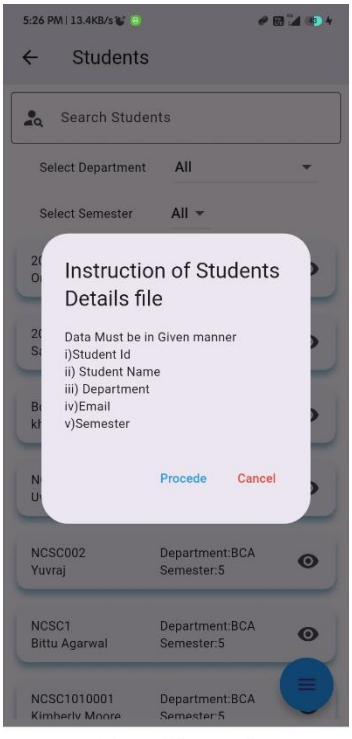
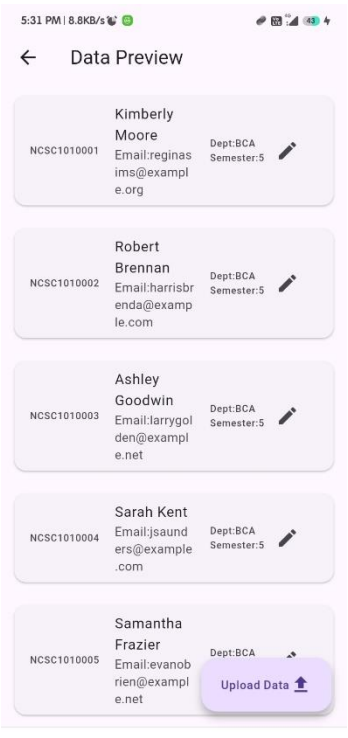
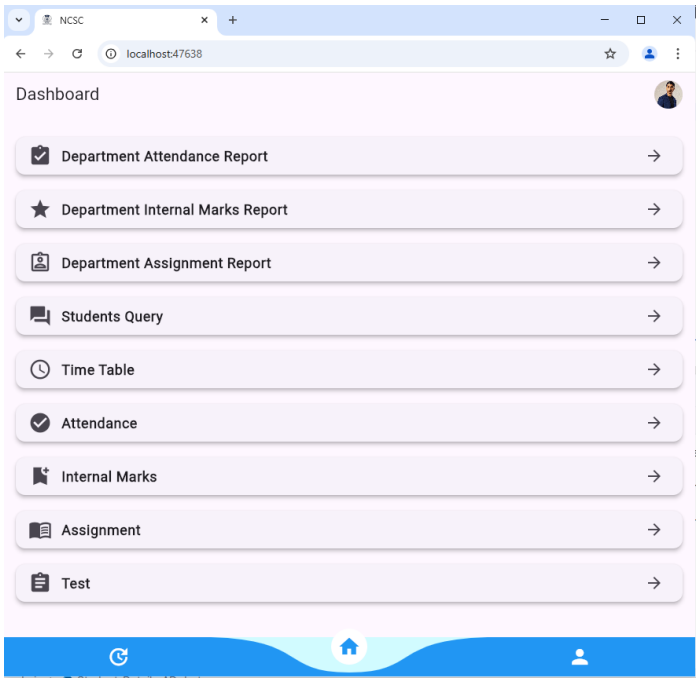
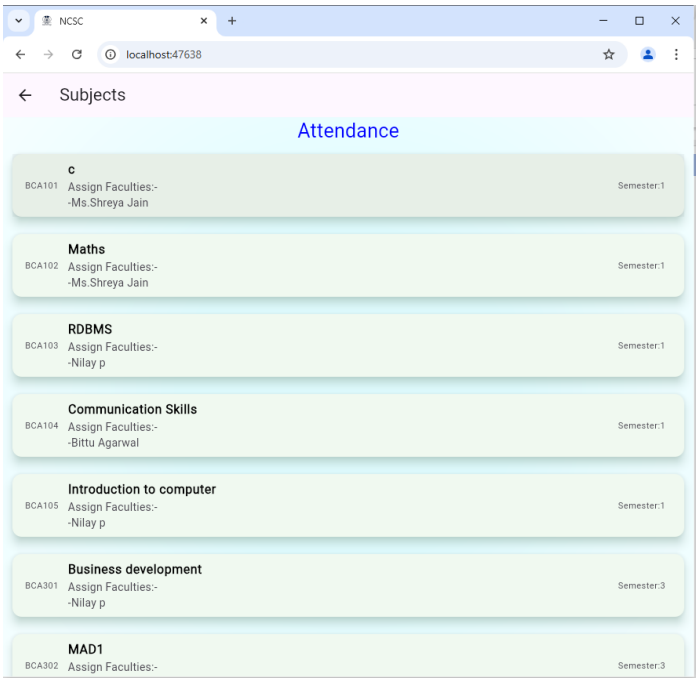
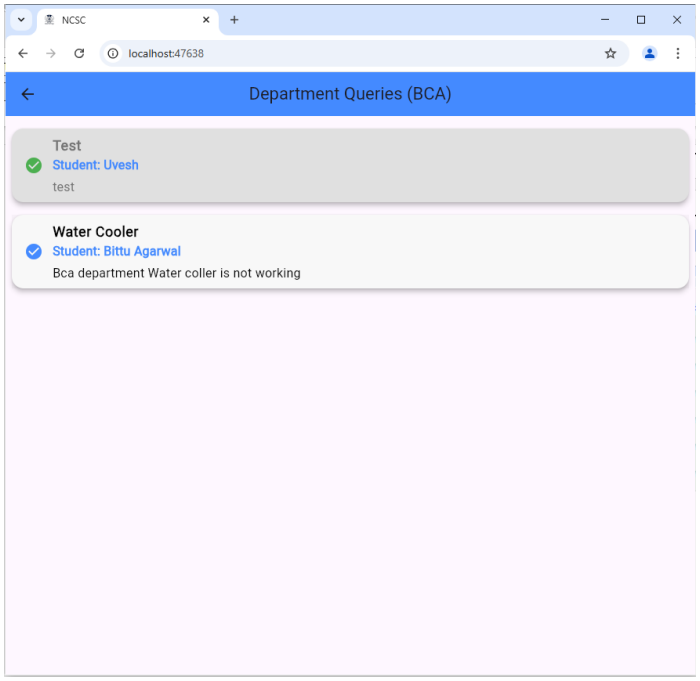
Enter Student Name
Select Department
Select Semester
Enter Email
Add Student

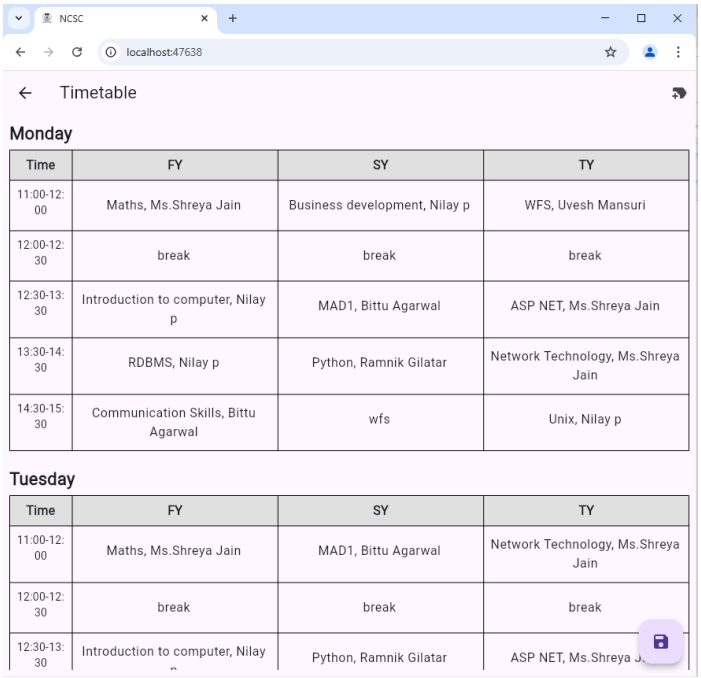

Students
Search Students
Select Department
All
Select Semester
All
Instruction of Students Details file
Data Must be in Given manner
i)Student Id
ii) Student Name
iii) Department
iv)Email
v)Semester
Procede
Cancel
NCSC002
Yuvraj
Department:BCA
Semester:5
NCSC1
Bittu Agarwal
Department:BCA
Semester:5
NCSC1010001
Kimberly Moore
Department:BCA
Semester:5

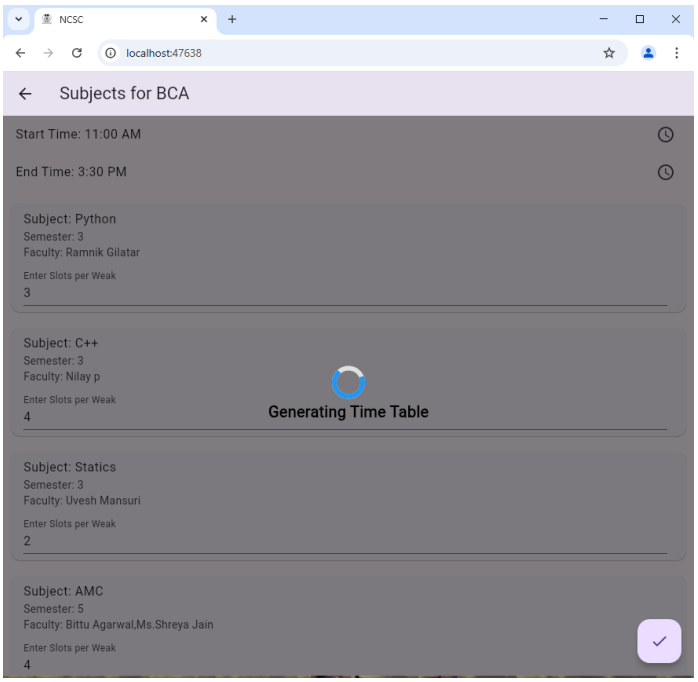

Data Preview
NCSC1010001
Kimberly Moore
Email:reginasims@example.org
Dept:BCA
Semester:5
NCSC1010002
Robert Brennan
Email:harrisbrenda@example.com
Dept:BCA
Semester:5
NCSC1010003
Ashley Goodwin
Email:larrygolden@example.net
Dept:BCA
Semester:5
NCSC1010004
Sarah Kent
Email:jsaunders@example.com
Dept:BCA
Semester:5
NCSC1010005
Samantha Frazier
Email:evanobrien@example.net
Dept:BCA
Upload Data

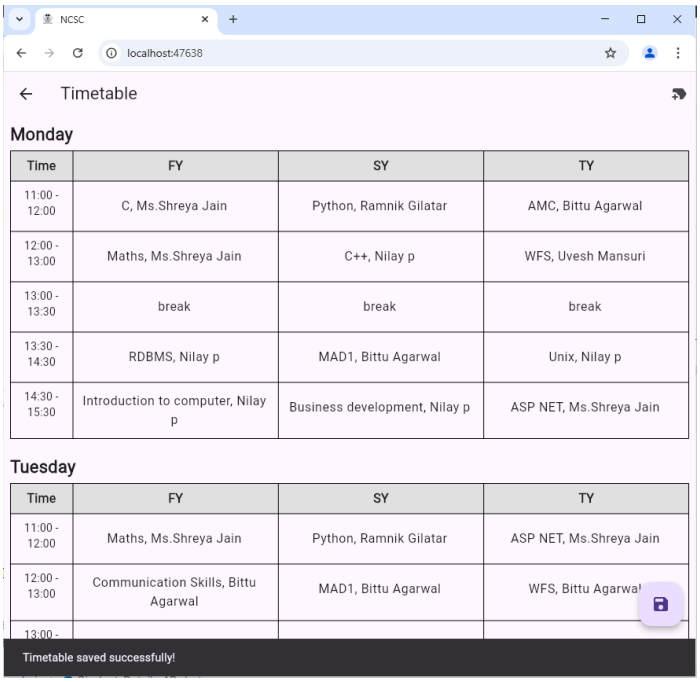

NCSC
localhost:47638
Dashboard
Department Attendance Report
Department Internal Marks Report
Department Assignment Report
Students Query
Time Table
Attendance
Internal Marks
Assignment
Test

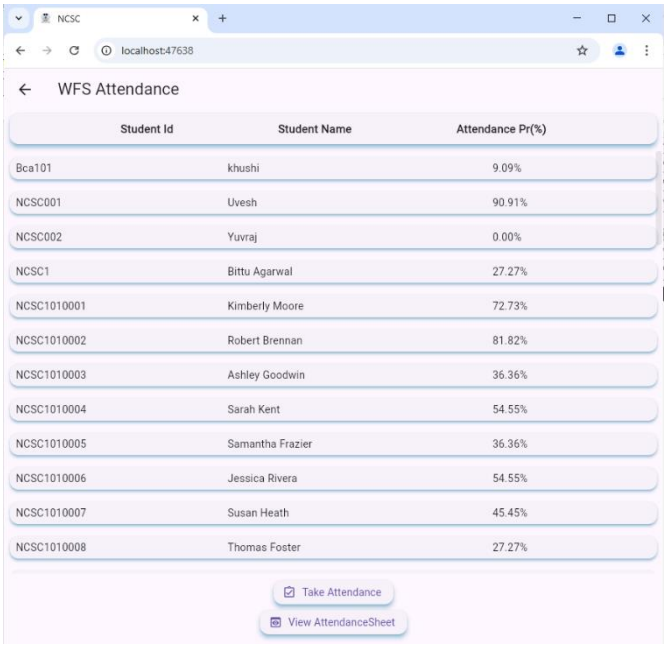

NCSC
localhost:47638
Subjects
Attendance
BCA101 c Assign Faculties:- -Ms.Shreya Jain Semester:1
BCA102 Maths Assign Faculties:- -Ms.Shreya Jain Semester:1
BCA103 RDBMS Assign Faculties:- -Nilay p Semester:1
BCA104 Communication Skills Assign Faculties:- -Bittu Agarwal Semester:1
BCA105 Introduction to computer Assign Faculties:- -Nilay p Semester:1
BCA301 Business development Assign Faculties:- -Nilay p Semester:3
BCA302 MAD1 Assign Faculties:- Semester:3

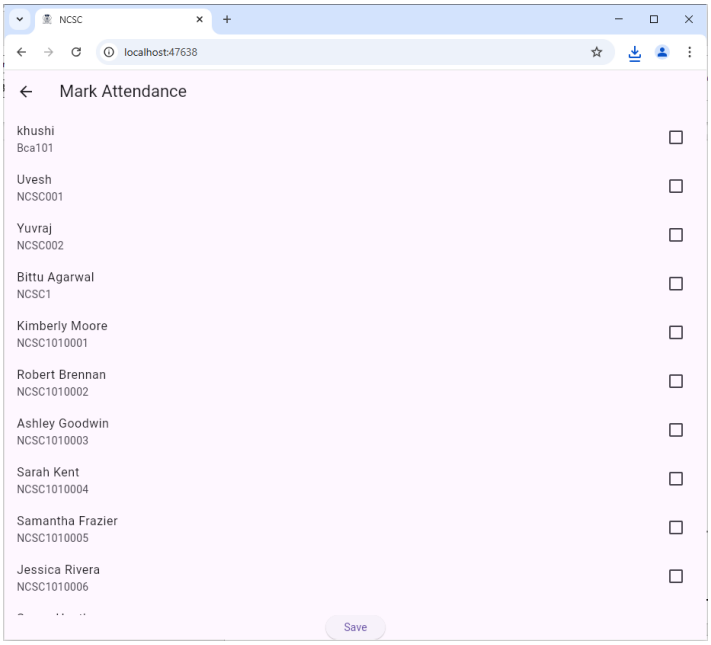

NCSC
localhost:47638
Department Queries (BCA)
Test
Student: Uvesh
test
Water Cooler
Student: Bittu Agarwal
Bca department Water coller is not working

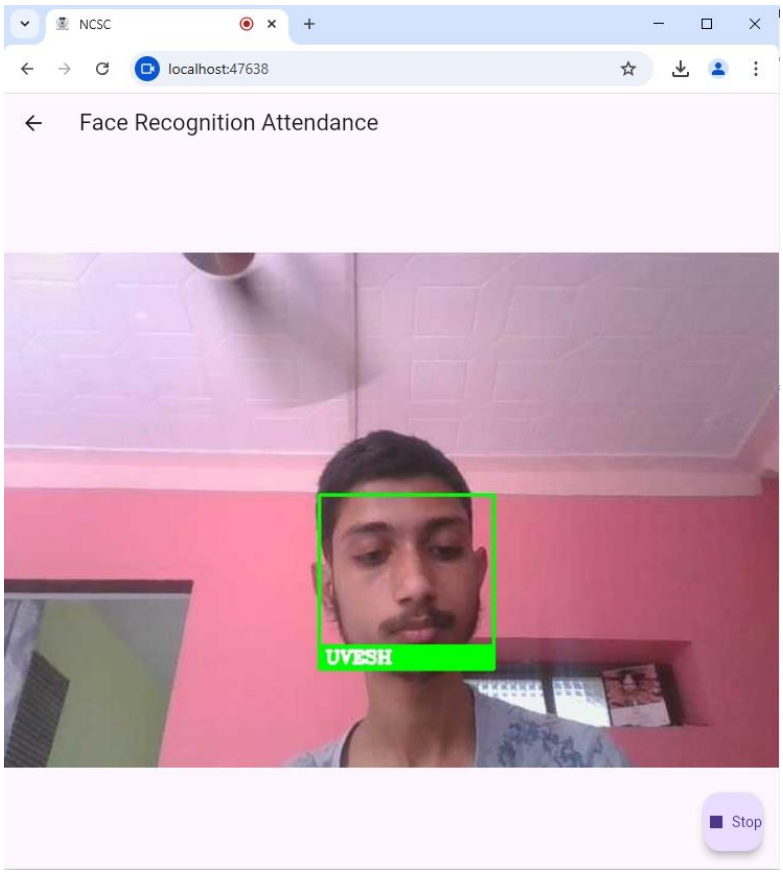

NCSC
localhost:47638
Timetable
Monday
Time | FY | SY | TY
11:00-12:00 | Maths, Ms.Shreya Jain | Business development, Nilay p | WFS, Uvesh Mansuri
12:00-12:30 | break | break | break
12:30-13:30 | Introduction to computer, Nilay p | MAD1, Bittu Agarwal | ASP NET, Ms.Shreya Jain
13:30-14:30 | RDBMS, Nilay p | Python, Ramnik Gilatar | Network Technology, Ms.Shreya Jain
14:30-15:30 | Communication Skills, Bittu Agarwal | wfs | Unix, Nilay p
Tuesday
Time | FY | SY | TY
11:00-12:00 | Maths, Ms.Shreya Jain | MAD1, Bittu Agarwal | Network Technology, Ms.Shreya Jain
12:00-12:30 | break | break | break
12:30-13:30 | Introduction to computer, Nilay | Python, Ramnik Gilatar | ASP NET, Ms.Shreya

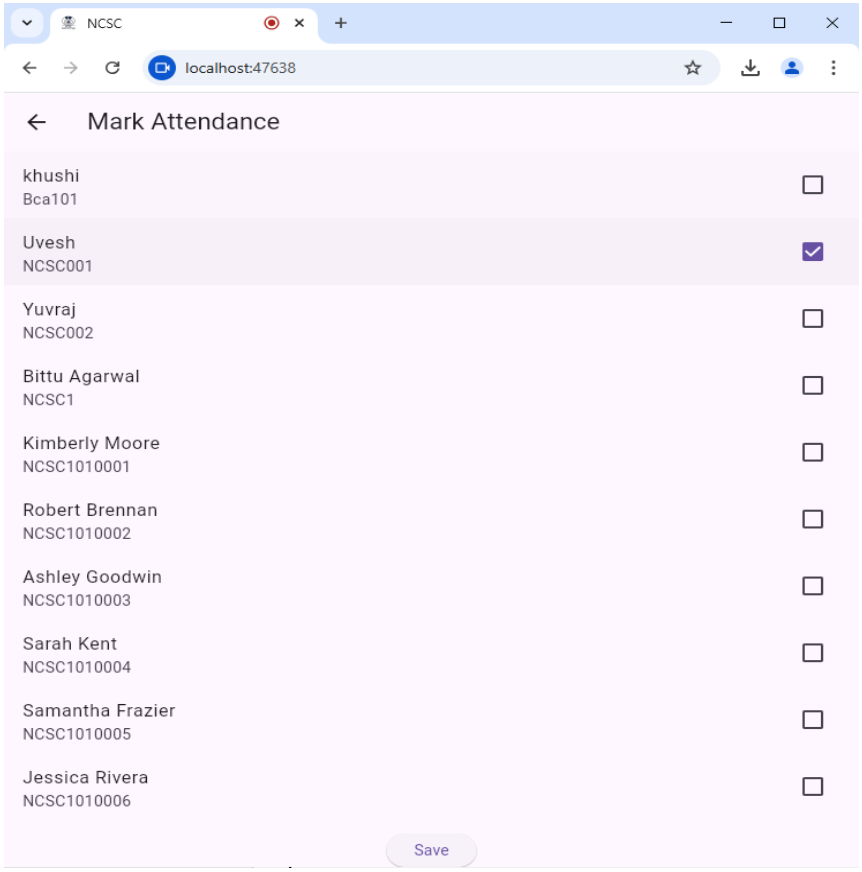

NCSC
localhost:47638
Subjects for BCA
Start Time: 11:00 AM
End Time: 3:30 PM
Subject: Python
Semester: 3
Faculty: Ramnik Gilatar
Enter Slots per Weak
3
Subject: C++
Semester: 3
Faculty: Nilay p
Enter Slots per Weak
4
Generating Time Table
Subject: Statics
Semester: 3
Faculty: Uvesh Mansuri
Enter Slots per Weak
2
Subject: AMC
Semester: 5
Faculty: Bittu Agarwal,Ms.Shreya Jain
Enter Slots per Weak
4

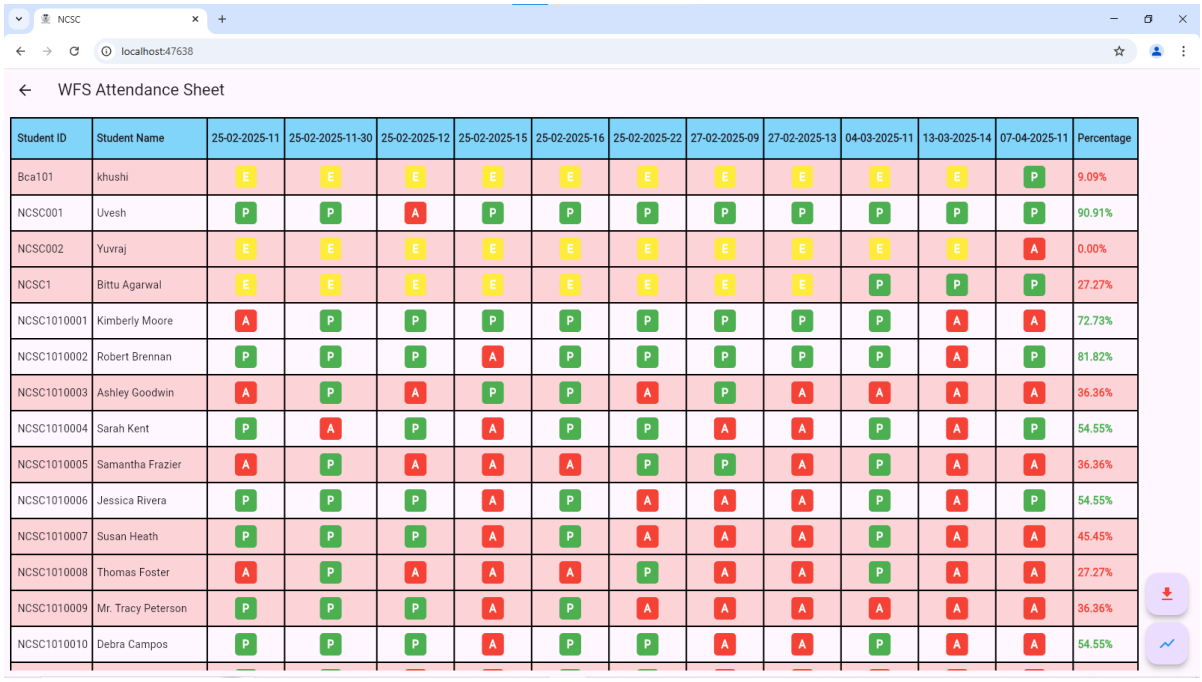

NCSC
localhost:47638
Timetable
Monday
Time | FY | SY | TY
11:00 - 12:00 | C, Ms.Shreya Jain | Python, Ramnik Gilatar | AMC, Bittu Agarwal
12:00 - 13:00 | Maths, Ms.Shreya Jain | C++, Nilay p | WFS, Uvesh Mansuri
13:00 - 13:30 | break | break | break
13:30 - 14:30 | RDBMS, Nilay p | MAD1, Bittu Agarwal | Unix, Nilay p
14:30 - 15:30 | Introduction to computer, Nilay p | Business development, Nilay p | ASP NET, Ms.Shreya Jain
Tuesday
Time | FY | SY | TY
11:00 - 12:00 | Maths, Ms.Shreya Jain | Python, Ramnik Gilatar | ASP NET, Ms.Shreya Jain
12:00 - 13:00 | Communication Skills, Bittu Agarwal | MAD1, Bittu Agarwal | WFS, Bittu Agarwal
Timetable saved successfully!


NCSC
localhost:47638
WFS Attendance
Student Id | Student Name | Attendance Pr(%)
Bca101 | khushi | 9.09%
NCSC001 | Uvesh | 90.91%
NCSC002 | Yuvraj | 0.00%
NCSC1 | Bittu Agarwal | 27.27%
NCSC1010001 | Kimberly Moore | 72.73%
NCSC1010002 | Robert Brennan | 81.82%
NCSC1010003 | Ashley Goodwin | 36.36%
NCSC1010004 | Sarah Kent | 54.55%
NCSC1010005 | Samantha Frazier | 36.36%
NCSC1010006 | Jessica Rivera | 54.55%
NCSC1010007 | Susan Heath | 45.45%
NCSC1010008 | Thomas Foster | 27.27%
Take Attendance
View AttendanceSheet

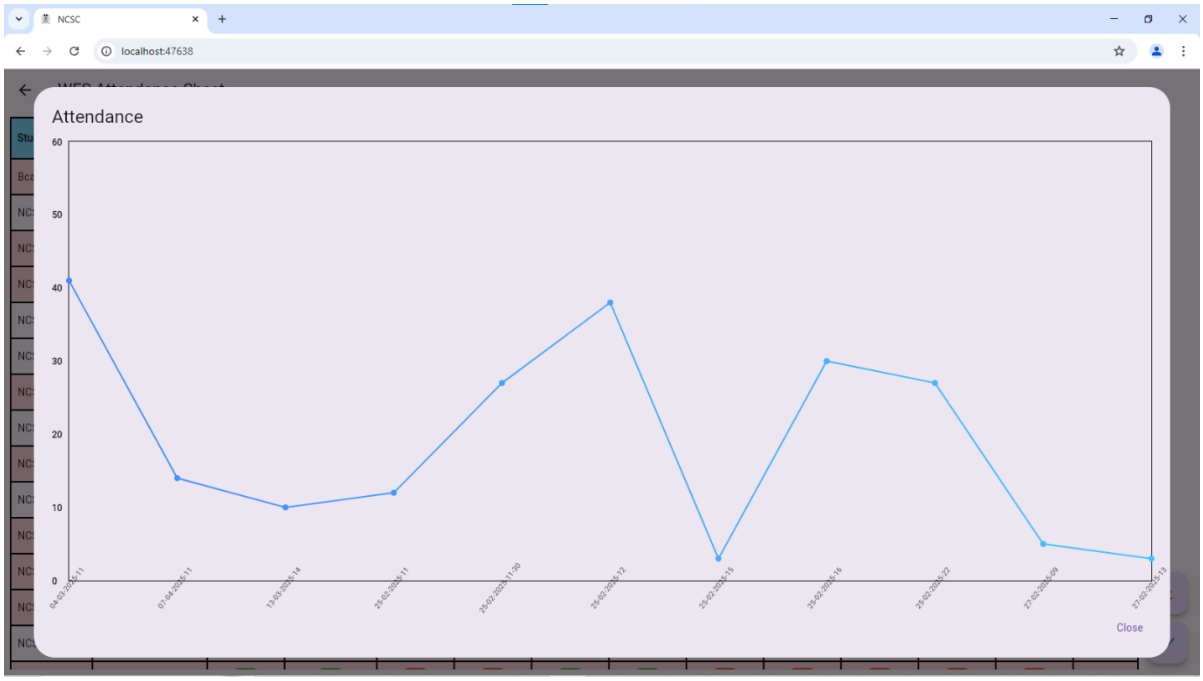

NCSC
localhost:47638
Mark Attendance
khushi
Bca101
Uvesh
NCSC001
Yuvraj
NCSC002
Bittu Agarwal
NCSC1
Kimberly Moore
NCSC1010001
Robert Brennan
NCSC1010002
Ashley Goodwin
NCSC1010003
Sarah Kent
NCSC1010004
Samantha Frazier
NCSC1010005
Jessica Rivera
NCSC1010006
Save

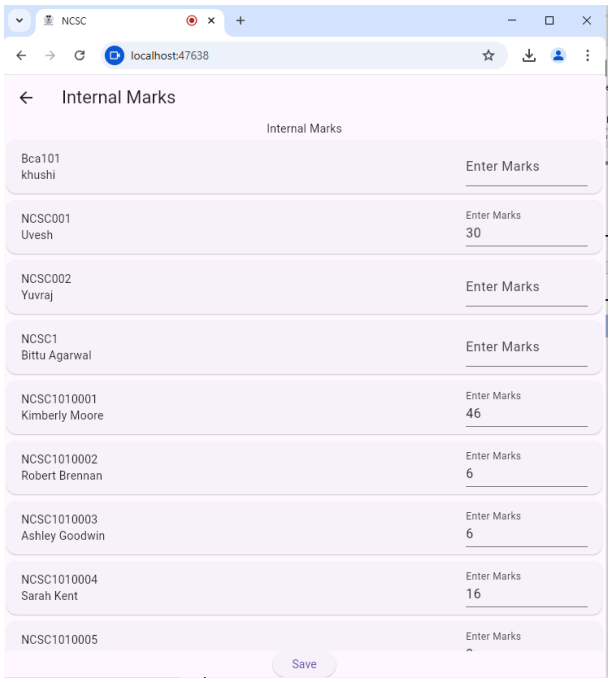

NCSC
localhost:47638
Face Recognition Attendance
UVESH
Stop

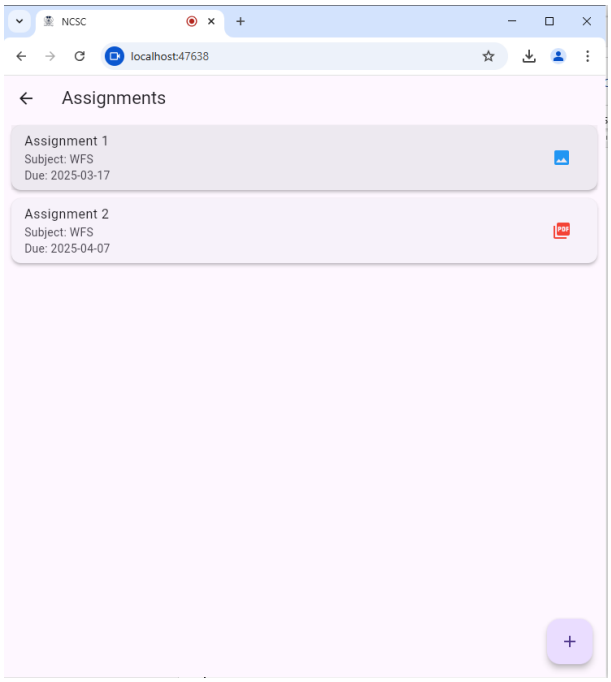

NCSC
localhost:47638
Mark Attendance
khushi
Bca101
Uvesh
NCSC001
Yuvraj
NCSC002
Bittu Agarwal
NCSC1
Kimberly Moore
NCSC1010001
Robert Brennan
NCSC1010002
Ashley Goodwin
NCSC1010003
Sarah Kent
NCSC1010004
Samantha Frazier
NCSC1010005
Jessica Rivera
NCSC1010006
Save



Student ID	Student Name	25-02-2025-11	25-02-2025-11-30	25-02-2025-12	25-02-2025-15	25-02-2025-16	25-02-2025-22	27-02-2025-09	27-02-2025-13	04-03-2025-11	13-03-2025-14	07-04-2025-11	Percentage
Bca101	khushi	E	E	E	E	E	E	E	E	E	E	P	9.09%
NCSC001	Uvesh	P	P	A	P	P	P	P	P	P	P	P	90.91%
NCSC002	Yuvraj	E	E	E	E	E	E	E	E	E	E	A	0.00%
NCSC1	Bittu Agarwal	E	E	E	E	E	E	E	E	P	P	P	27.27%
NCSC1010001	Kimberly Moore	A	P	P	P	P	P	P	P	P	A	A	72.73%
NCSC1010002	Robert Brennan	P	P	P	A	P	P	P	P	P	A	P	81.82%
NCSC1010003	Ashley Goodwin	A	P	A	P	P	A	P	A	A	A	A	36.36%
NCSC1010004	Sarah Kent	P	A	P	A	P	P	A	A	P	A	P	54.55%
NCSC1010005	Samantha Frazier	A	P	A	A	A	P	P	A	P	A	A	36.36%
NCSC1010006	Jessica Rivera	P	P	P	A	P	A	A	A	P	A	P	54.55%
NCSC1010007	Susan Heath	P	P	P	A	P	A	A	A	P	A	A	45.45%
NCSC1010008	Thomas Foster	A	P	A	A	A	P	A	A	P	A	A	27.27%
NCSC1010009	Mr. Tracy Peterson	P	P	P	A	P	A	A	A	A	A	A	36.36%
NCSC1010010	Debra Campos	P	P	P	A	P	P	A	A	P	A	A	54.55%




NCSC
localhost:47638
Internal Marks
Internal Marks
Bca101
khushi
Enter Marks
NCSC001
Uvesh
Enter Marks
30
NCSC002
Yuvraj
Enter Marks
NCSC1
Bittu Agarwal
Enter Marks
NCSC1010001
Kimberly Moore
Enter Marks
46
NCSC1010002
Robert Brennan
Enter Marks
6
NCSC1010003
Ashley Goodwin
Enter Marks
6
NCSC1010004
Sarah Kent
Enter Marks
16
NCSC1010005
Enter Marks
Save


NCSC
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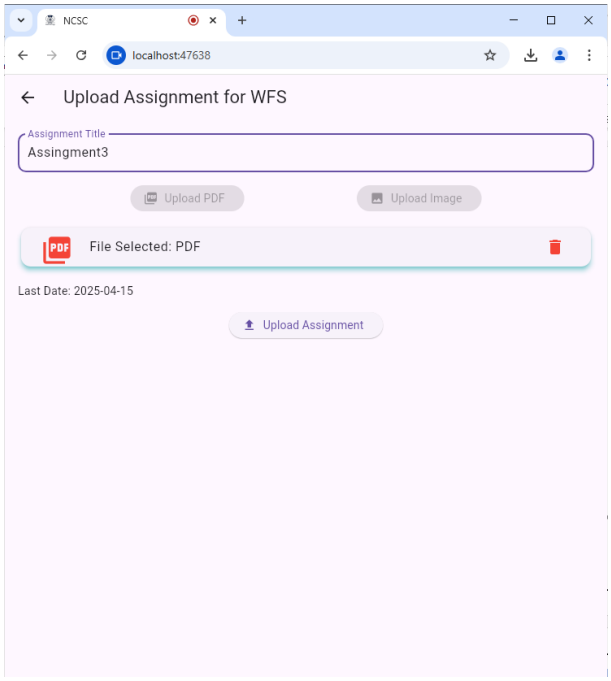
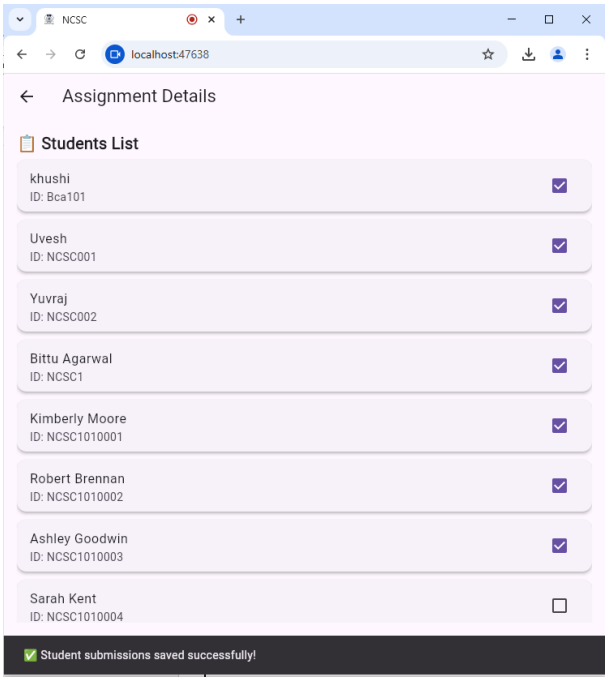
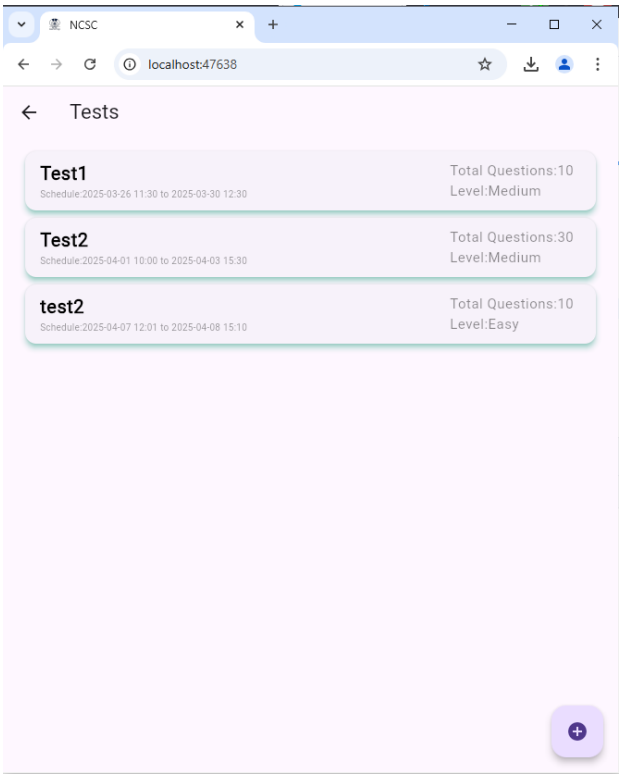
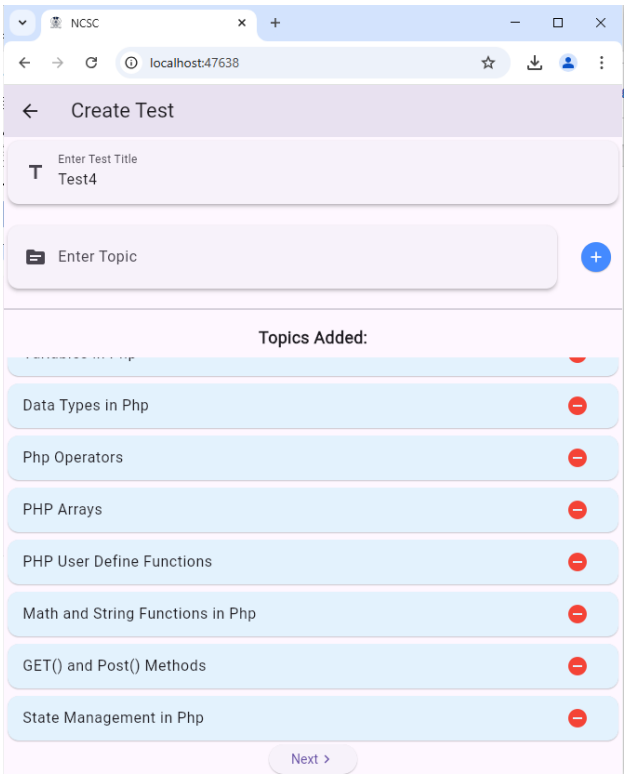
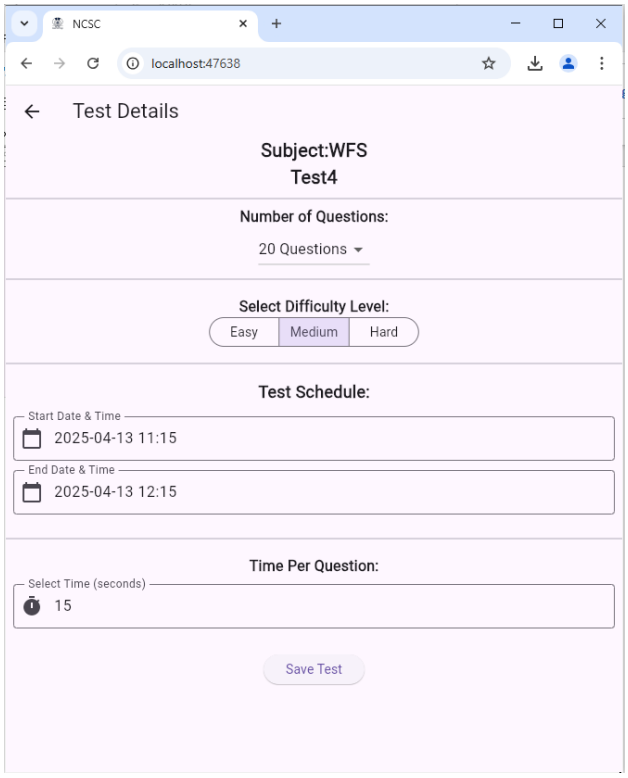
Assignments
Assignment 1
Subject: WFS
Due: 2025-03-17
Assignment 2
Subject: WFS
Due: 2025-04-07

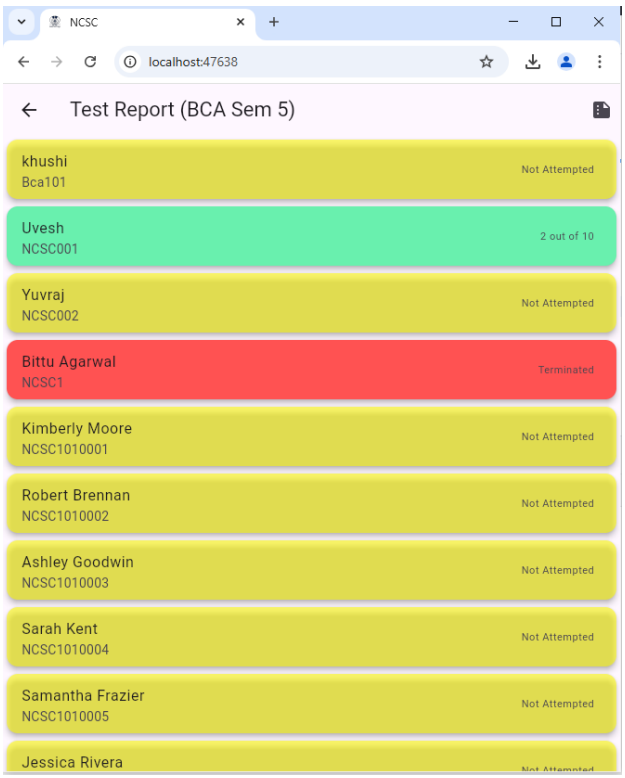

NCSC
localhost:47638
Upload Assignment for WFS
Assignment Title
Assingment3
Upload PDF
Upload Image
File Selected: PDF
Last Date: 2025-04-15
Upload Assignment

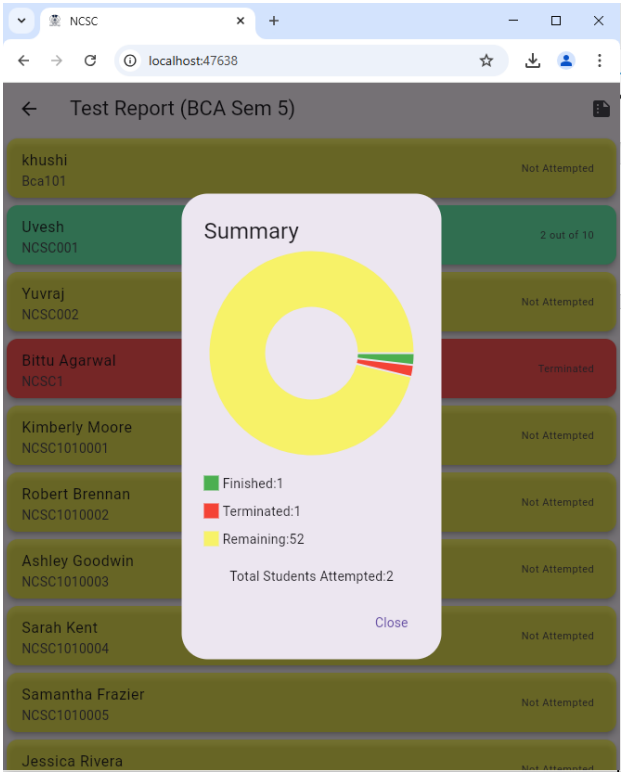

NCSC
localhost:47638
Assignment Details
Students List
khushi
ID: Bca101
Uvesh
ID: NCSC001
Yuvraj
ID: NCSC002
Bittu Agarwal
ID: NCSC1
Kimberly Moore
ID: NCSC1010001
Robert Brennan
ID: NCSC1010002
Ashley Goodwin
ID: NCSC1010003
Sarah Kent
ID: NCSC1010004
Student submissions saved successfully!

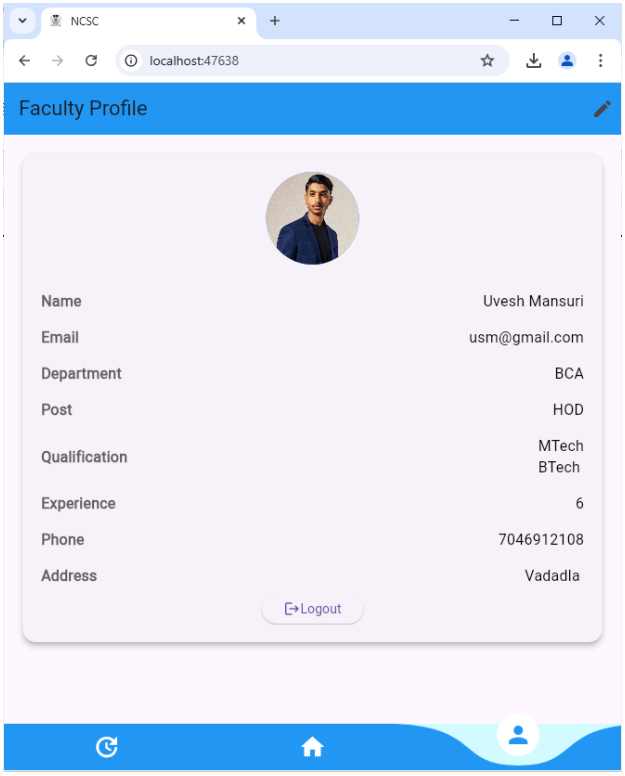

NCSC
localhost:47638
Tests
Test1
Schedule:2025-03-26 11:30 to 2025-03-30 12:30
Total Questions:10
Level:Medium
Test2
Schedule:2025-04-01 10:00 to 2025-04-03 15:30
Total Questions:30
Level:Medium
test2
Schedule:2025-04-07 12:01 to 2025-04-08 15:10
Total Questions:10
Level:Easy

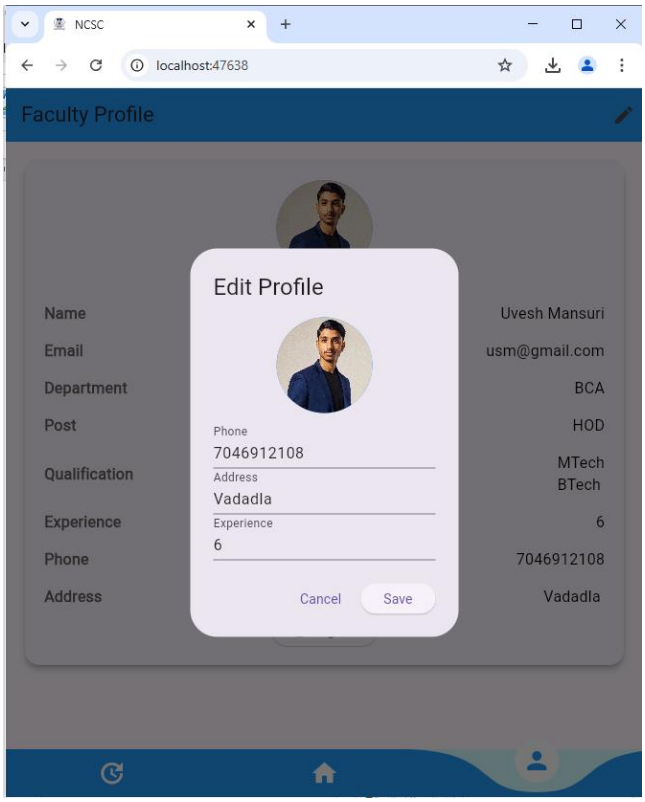

NCSC
localhost:47638
Create Test
Enter Test Title
Test4
Enter Topic
Topics Added:
Data Types in Php
Php Operators
PHP Arrays
PHP User Define Functions
Math and String Functions in Php
GET() and Post() Methods
State Management in Php
Next ›

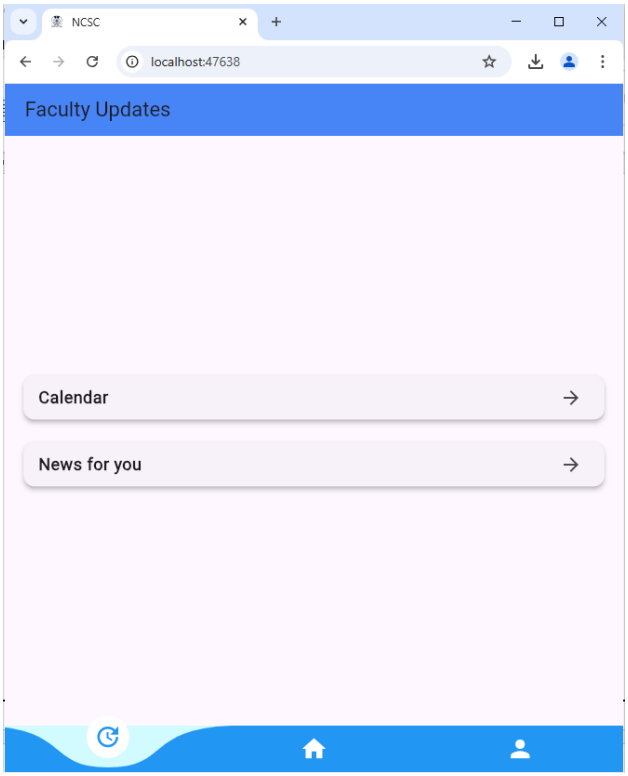

NCSC
localhost:47638
Test Details
Subject:WFS
Test4
Number of Questions:
20 Questions
Select Difficulty Level:
Easy
Medium
Hard
Test Schedule:
Start Date & Time
2025-04-13 11:15
End Date & Time
2025-04-13 12:15
Time Per Question:
Select Time (seconds)
15
Save Test

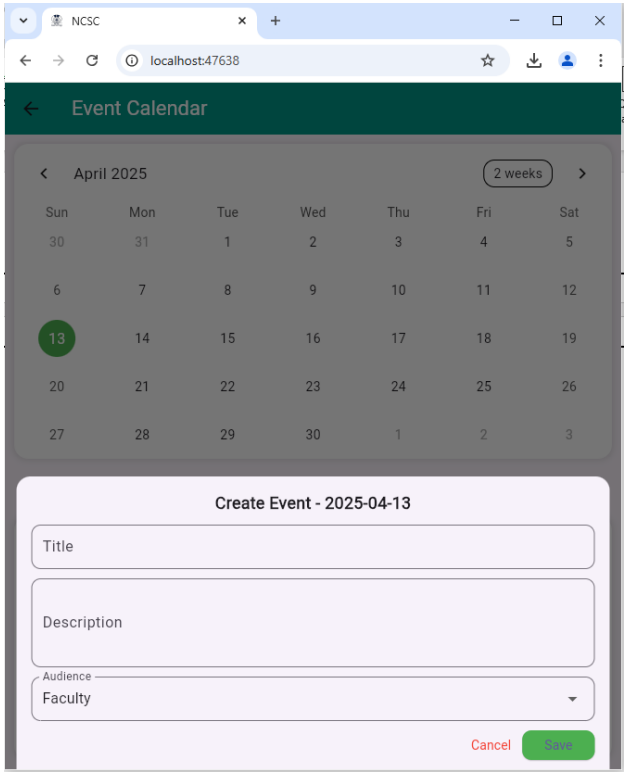

NCSC
localhost:47638
Test Report (BCA Sem 5)
khushi
Bca101
Not Attempted
Uvesh
NCSC001
2 out of 10
Yuvraj
NCSC002
Not Attempted
Bittu Agarwal
NCSC1
Terminated
Kimberly Moore
NCSC1010001
Not Attempted
Robert Brennan
NCSC1010002
Not Attempted
Ashley Goodwin
NCSC1010003
Not Attempted
Sarah Kent
NCSC1010004
Not Attempted
Samantha Frazier
NCSC1010005
Not Attempted
Jessica Rivera

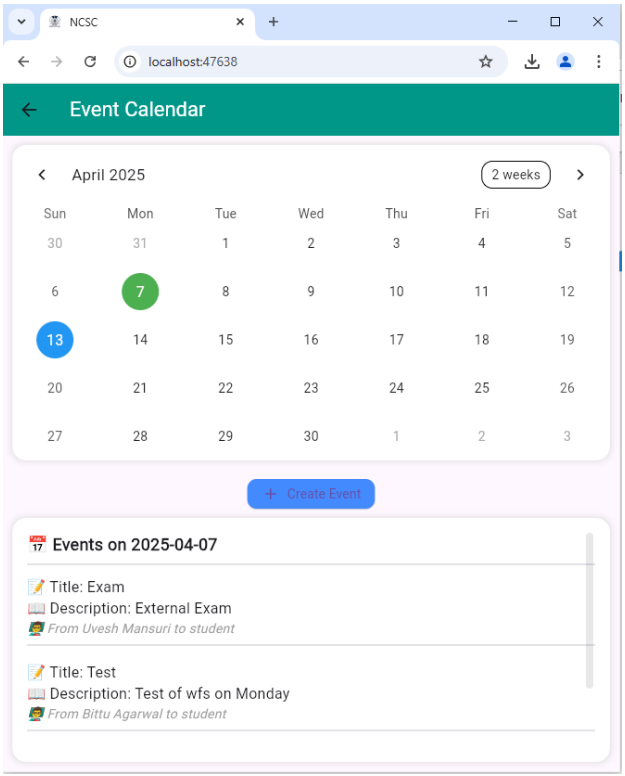

NCSC
localhost:47638
Test Report (BCA Sem 5)
khushi
Bca101
Not Attempted
Uvesh
NCSC001
2 out of 10
Yuvraj
NCSC002
Not Attempted
Bittu Agarwal
NCSC1
Terminated
Kimberly Moore
NCSC1010001
Not Attempted
Robert Brennan
NCSC1010002
Not Attempted
Ashley Goodwin
NCSC1010003
Not Attempted
Sarah Kent
NCSC1010004
Not Attempted
Samantha Frazier
NCSC1010005
Not Attempted
Jessica Rivera
Summary
Finished:1
Terminated:1
Remaining:52
Total Students Attempted:2
Close

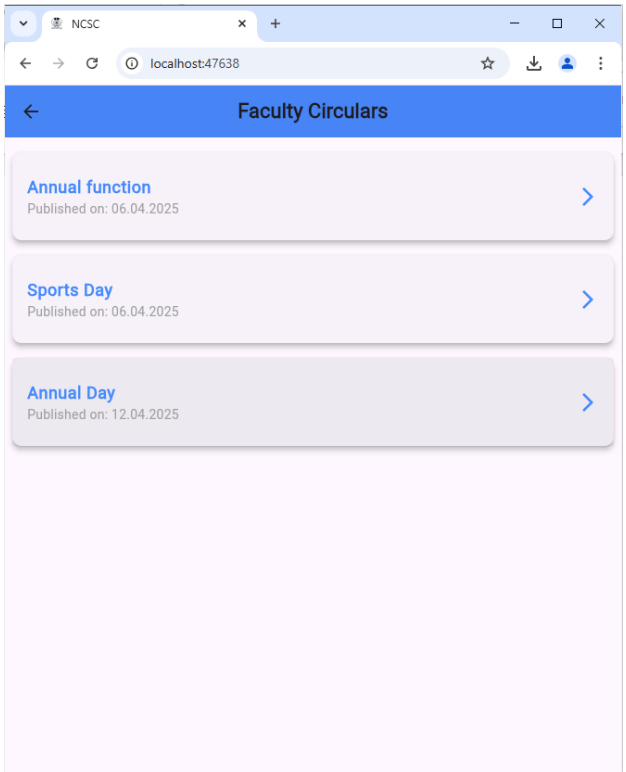

NCSC
localhost:47638
Faculty Profile
Name
Uvesh Mansuri
Email
usm@gmail.com
Department
BCA
Post
HOD
Qualification
MTech
BTech
Experience
6
Phone
7046912108
Address
Vadadla
Logout

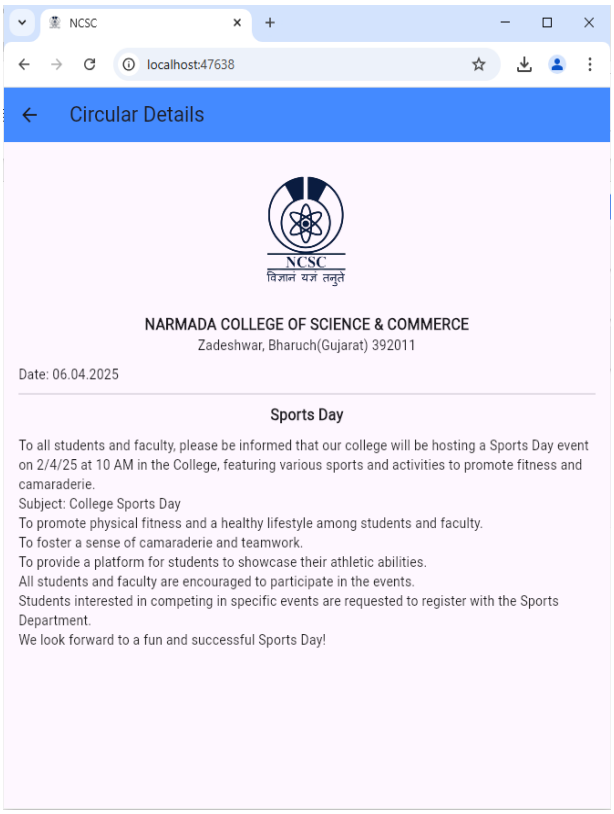

NCSC
localhost:47638
Faculty Profile
Edit Profile
Name
Uvesh Mansuri
Email
usm@gmail.com
Department
BCA
Post
HOD
Qualification
MTech
BTech
Experience
6
Phone
7046912108
Address
Vadadla
Phone
7046912108
Address
Vadadla
Experience
6
Cancel
Save

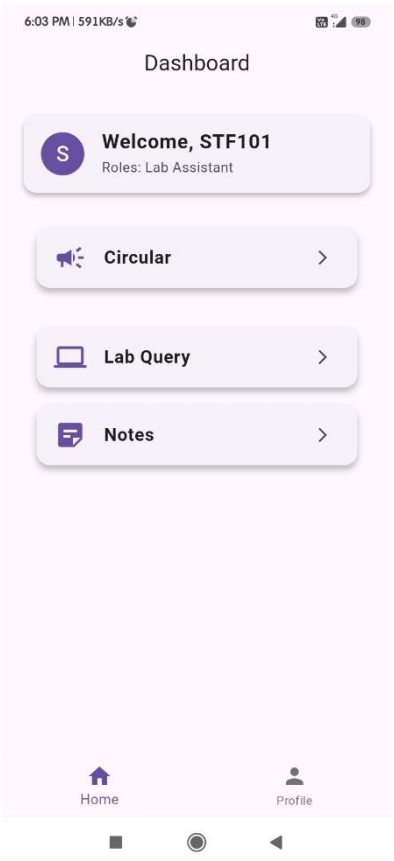

NCSC
localhost:47638
Faculty Updates
Calendar
News for you

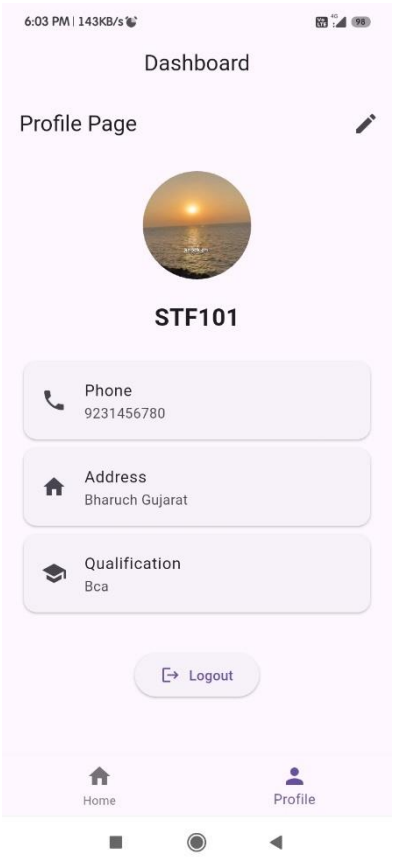

NCSC
localhost:47638
Event Calendar
April 2025
2 weeks
Sun Mon Tue Wed Thu Fri Sat
Create Event - 2025-04-13
Title
Description
Audience
Faculty
Cancel
Save

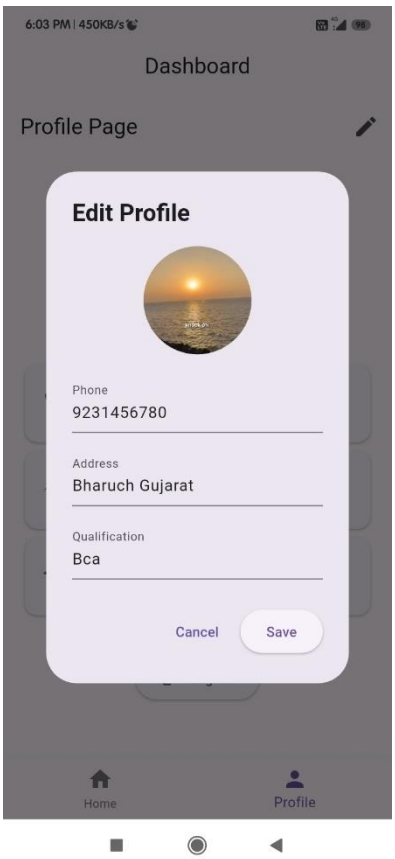

NCSC
localhost:47638
Event Calendar
April 2025
2 weeks
Sun Mon Tue Wed Thu Fri Sat
Create Event
Events on 2025-04-07
Title: Exam
Description: External Exam
From Uvesh Mansuri to student
Title: Test
Description: Test of wfs on Monday
From Bittu Agarwal to student

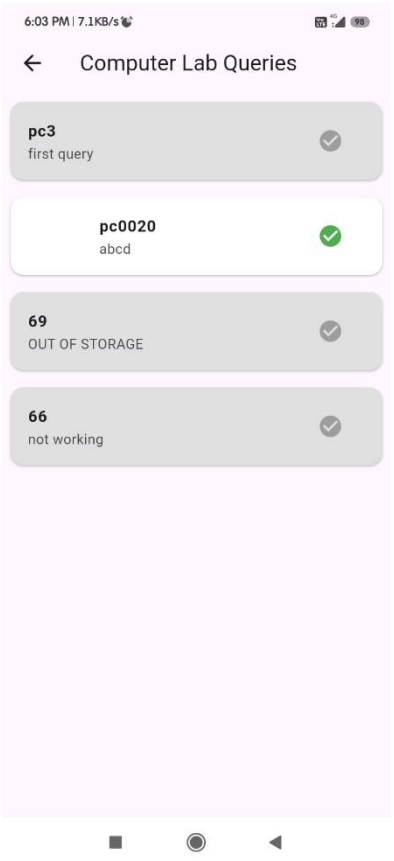

NCSC
localhost:47638
Faculty Circulars
Annual function
Published on: 06.04.2025
Sports Day
Published on: 06.04.2025
Annual Day
Published on: 12.04.2025


NCSC
localhost:47638
Circular Details
NCSC
विज्ञानं यज्ञं तनुते
NARMADA COLLEGE OF SCIENCE & COMMERCE
Zadeshwar, Bharuch(Gujarat) 392011
Date: 06.04.2025
Sports Day
To all students and faculty, please be informed that our college will be hosting a Sports Day event on 2/4/25 at 10 AM in the College, featuring various sports and activities to promote fitness and camaraderie.
Subject: College Sports Day
To promote physical fitness and a healthy lifestyle among students and faculty.
To foster a sense of camaraderie and teamwork.
To provide a platform for students to showcase their athletic abilities.
All students and faculty are encouraged to participate in the events.
Students interested in competing in specific events are requested to register with the Sports Department.
We look forward to a fun and successful Sports Day!


6:03 PM | 591KB/s
Dashboard
Welcome, STF101
Roles: Lab Assistant
Circular
Lab Query
Notes
Home
Profile


6:03 PM | 143KB/s
Dashboard
Profile Page
STF101
Phone
9231456780
Address
Bharuch Gujarat
Qualification
Bca
Logout
Home
Profile


6:03 PM | 450KB/s
Dashboard
Profile Page
Edit Profile
Phone
9231456780
Address
Bharuch Gujarat
Qualification
Bca
Cancel
Save
Home
Profile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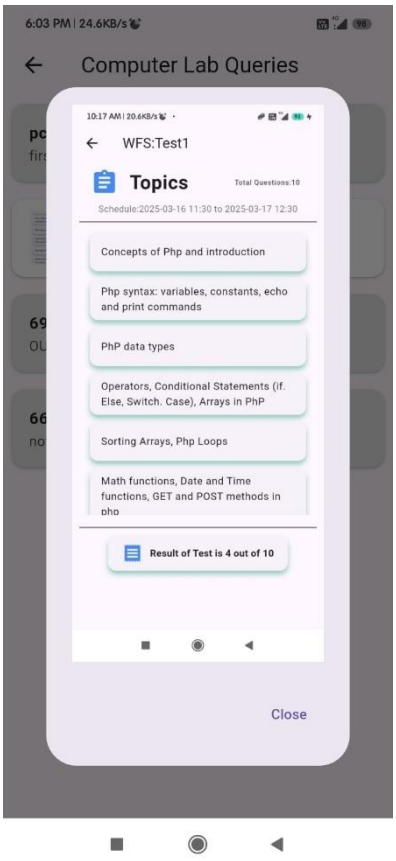
Computer Lab Queries
pc3
first query
pc0020
abcd
69
OUT OF STORAGE
66
not working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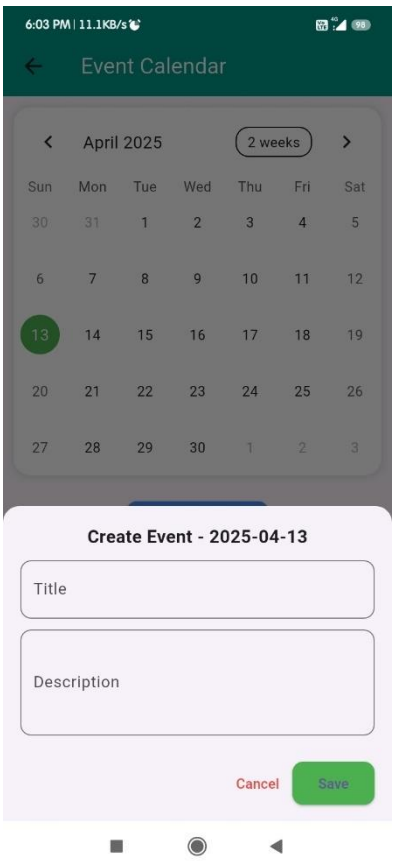
Computer Lab Queries
WFS:Test1
Topics
Concepts of Php and introduction
Php syntax: variables, constants, echo and print commands
PhP data types
Operators, Conditional Statements (if, Else, Switch. Case), Arrays in PhP
Sorting Arrays, Php Loops
Math functions, Date and Time functions, GET and POST methods in php
Result of Test is 4 out of 10
Close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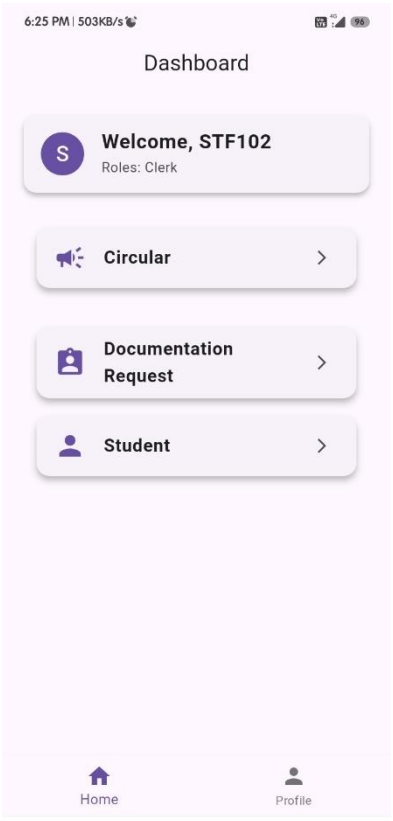
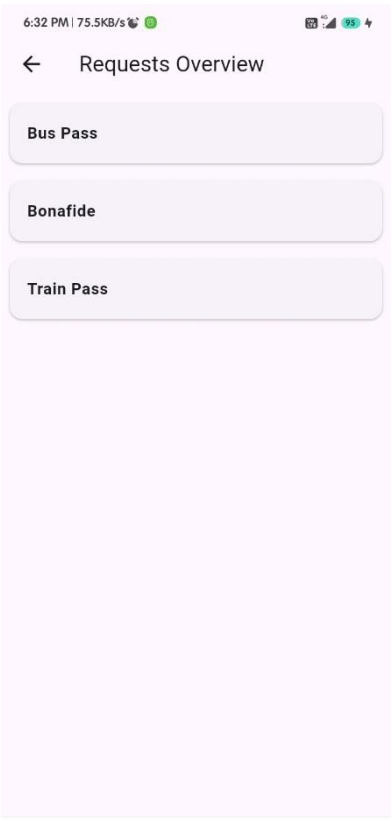
Event Calendar
April 2025
2 weeks
Sun Mon Tue Wed Thu Fri Sat
Create Event - 2025-04-13
Title
Description
Cancel
Save


6:25 PM | 503KB/s
Dashboard
S
Welcome, STF102
Roles: Clerk
Circular
Documentation Request
Student
Home
Profile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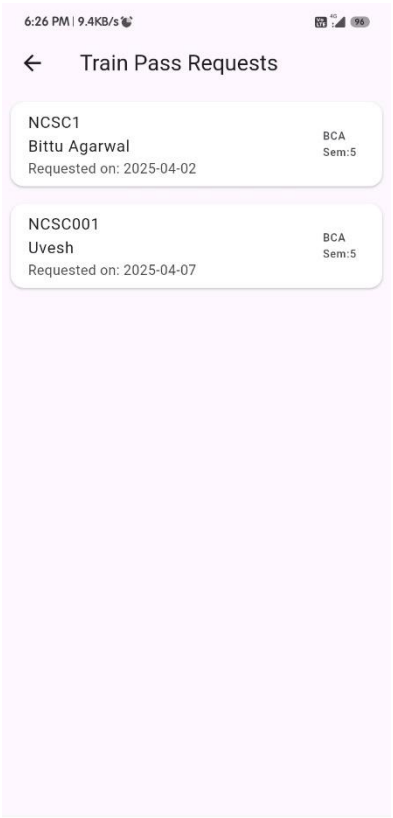
Requests Overview
Bus Pass
Bonafide
Train Pass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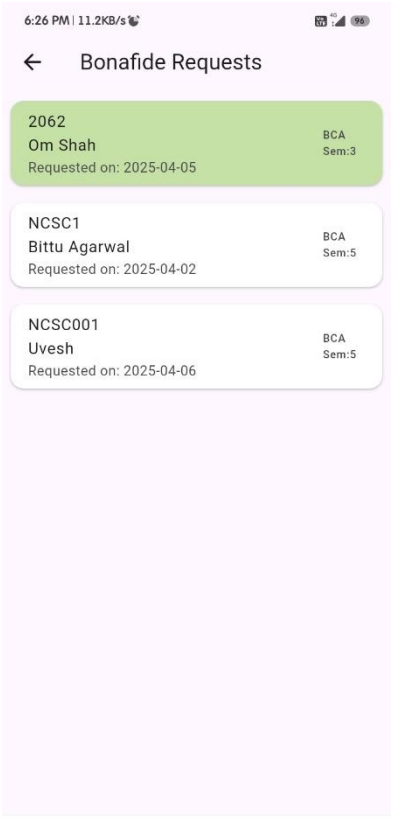
Train Pass Requests
NCSC1
Bittu Agarwal
Requested on: 2025-04-02
BCA
Sem:5
NCSC001
Uvesh
Requested on: 2025-04-07
BCA
Sem:5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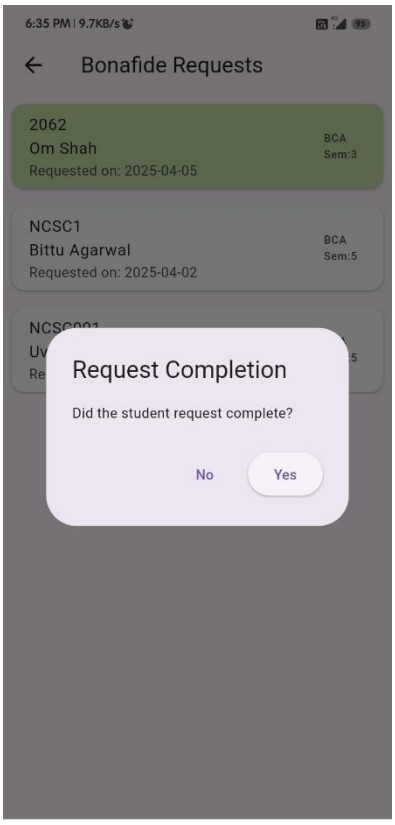
Bonafide Requests
2062
Om Shah
Requested on: 2025-04-05
BCA
Sem:3
NCSC1
Bittu Agarwal
Requested on: 2025-04-02
BCA
Sem:5
NCSC001
Uvesh
Requested on: 2025-04-06
BCA
Sem:5


6:26 PM | 9.2KB/s
Bus Pass Requests
NCSC1
Bittu Agarwal
Requested on: 2025-04-02
BCA
Sem:5
NCSC2
Nilay Mahant
Requested on: 2025-04-07
BCA
Sem:5
Bca101
khushi
Requested on: 2025-04-04
BCA
Sem:5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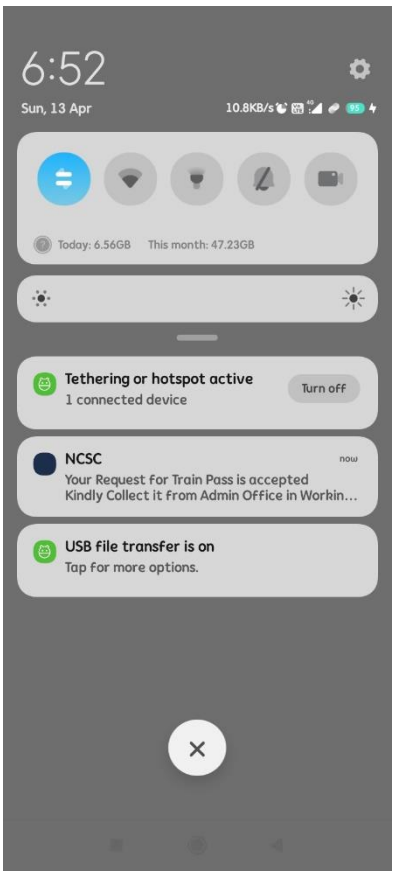
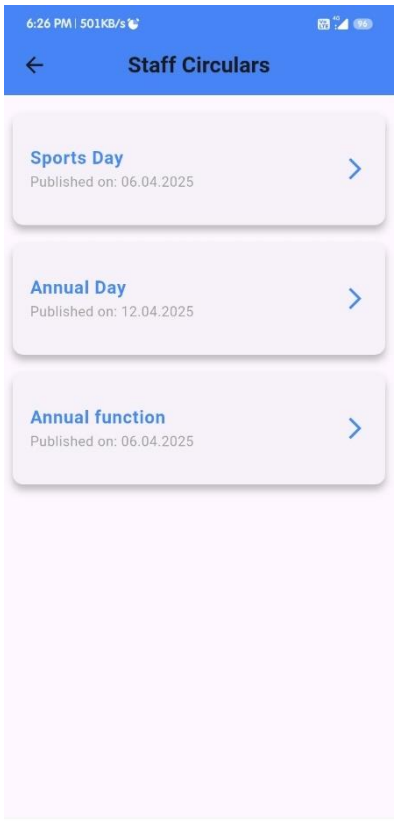
Bonafide Requests
2062
Om Shah
Requested on: 2025-04-05
BCA
Sem:3
NCSC1
Bittu Agarwal
Requested on: 2025-04-02
BCA
Sem:5
Request Completion
Did the student request complete?
No
Yes


6:52
Sun, 13 Apr
10.8KB/s
Today: 6.56GB
This month: 47.23GB
Tethering or hotspot active
1 connected device
Turn off
NCSC
now
Your Request for Train Pass is accepted
Kindly Collect it from Admin Office in Workin...
USB file transfer is on
Tap for more options.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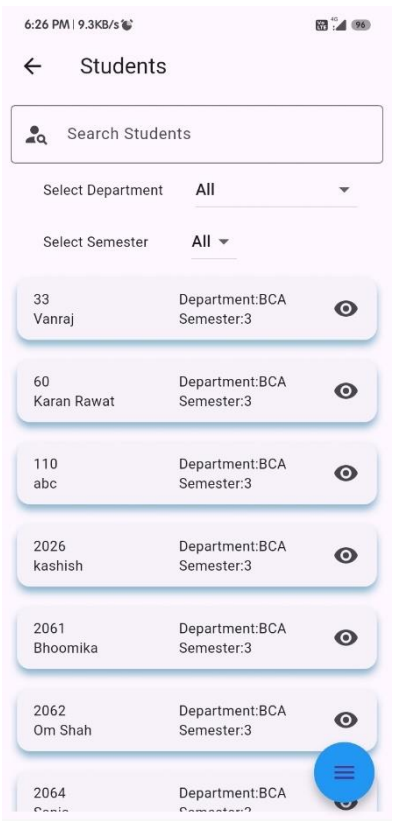
Staff Circulars
Sports Day
Published on: 06.04.2025
Annual Day
Published on: 12.04.2025
Annual function
Published on: 06.04.2025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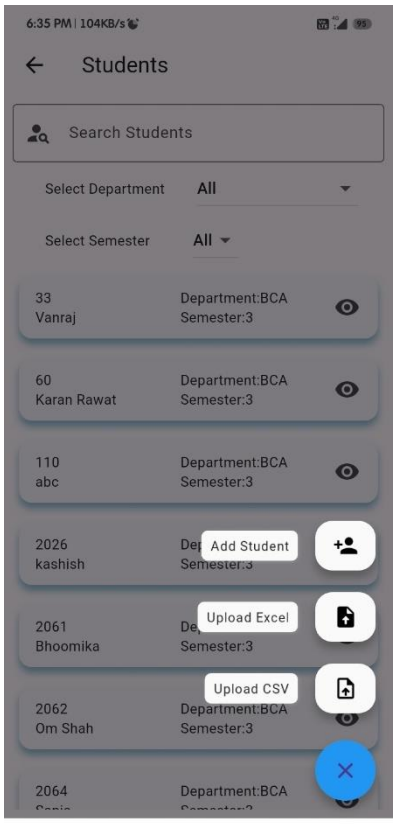
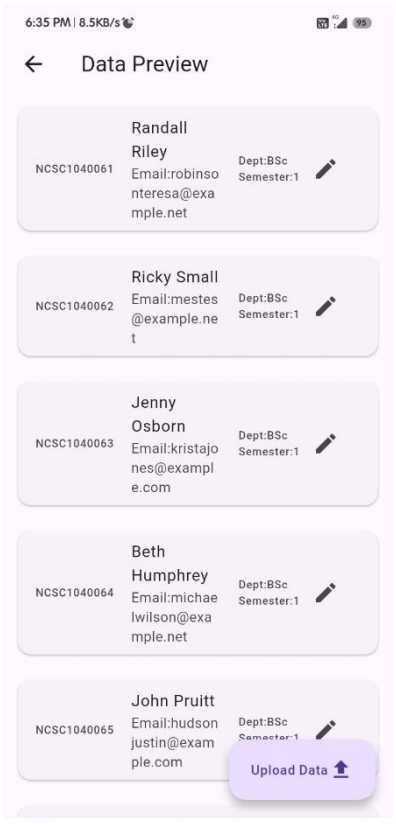
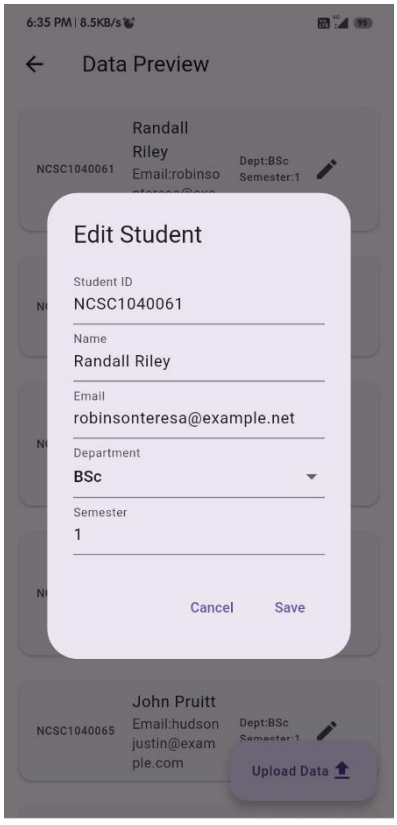
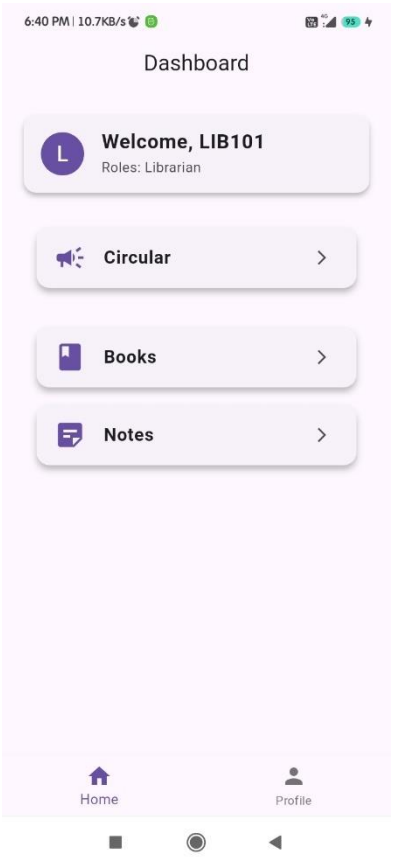
Students
Search Students
Select Department
All
Select Semester
All
33
Vanraj
Department:BCA
Semester:3
60
Karan Rawat
Department:BCA
Semester:3
110
abc
Department:BCA
Semester:3
2026
kashish
Department:BCA
Semester:3
2061
Bhoomika
Department:BCA
Semester:3
2062
Om Shah
Department:BCA
Semester:3
2064
Department:BCA


6:35 PM | 104KB/s
Students
Search Students
Select Department
All
Select Semester
All
33
Vanraj
Department:BCA
Semester:3
60
Karan Rawat
Department:BCA
Semester:3
110
abc
Department:BCA
Semester:3
2026
kashish
Add Student
2061
Bhoomika
Upload Excel
2062
Om Shah
Department:BCA
Semester:3
Upload CSV
2064
Department:BCA


6:35 PM | 8.5KB/s
Data Preview
NCSC1040061
Randall Riley
Email:robinsonteresa@example.net
Dept:BSc
Semester:1
NCSC1040062
Ricky Small
Email:mestes@example.net
Dept:BSc
Semester:1
NCSC1040063
Jenny Osborn
Email:kristajones@example.com
Dept:BSc
Semester:1
NCSC1040064
Beth Humphrey
Email:michaelwilson@example.net
Dept:BSc
Semester:1
NCSC1040065
John Pruitt
Email:hudsonjustin@example.com
Dept:BSc
Upload Data


6:35 PM | 8.5KB/s
Data Preview
Edit Student
Student ID
NCSC1040061
Name
Randall Riley
Email
robinsonteresa@example.net
Department
BSc
Semester
1
Cancel
Save
Upload Data


6:40 PM | 10.7KB/s
Dashboard
Welcome, LIB101
Roles: Librarian
Circular
Books
Notes
Home
Profile


6:46 PM | 11.2KB/s
Library Work Space
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Select Department
All
Assinged Books
AI Python
MK
Department:BCA
Remaining Copies:8
Assing Copies:2
Data Structures
S. Lipschutz
Department:BCA
Remaining Copies:0
Assing Copies:1
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Silberschatz
Department:BCA
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Elmasri & Navathe
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Assing Copies:0
Software
Remaining Copies:20


6:43 PM | 9.0KB/s
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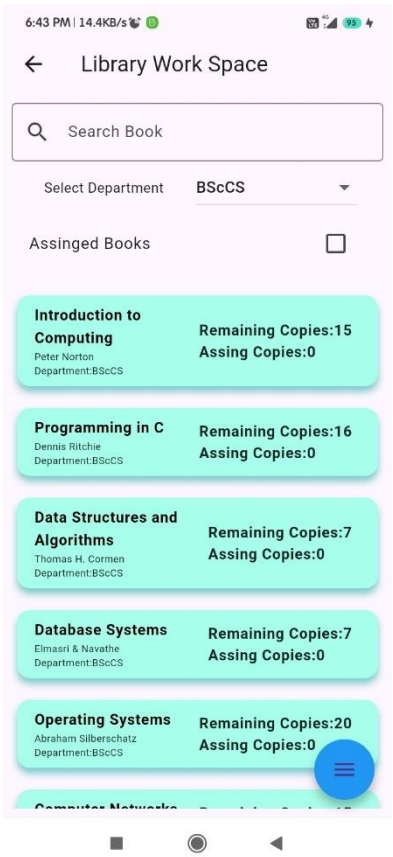
Remaining Copies:9
Assing Copies:1
Data Structures
S. Lipschutz
Department:BCA
Remaining Copies:0
Assing Copies:1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Dennis Ritchie
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Data Structures and Algorithms
Thomas H. Cormen
Department:BScCS
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Elmasri & Navathe
Department:BScCS
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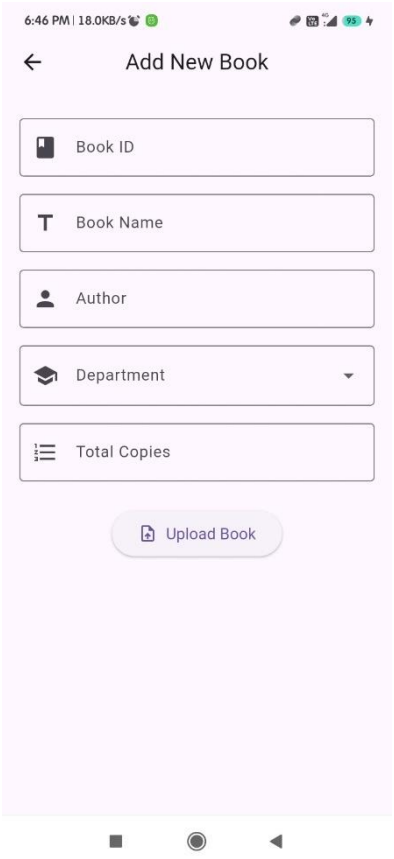
Assing Copies:0
Operating Systems
Abraham Silberschatz
Department:BScCS
Remaining Copies:20
Assing Copies:0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Author
Department
Total Copies
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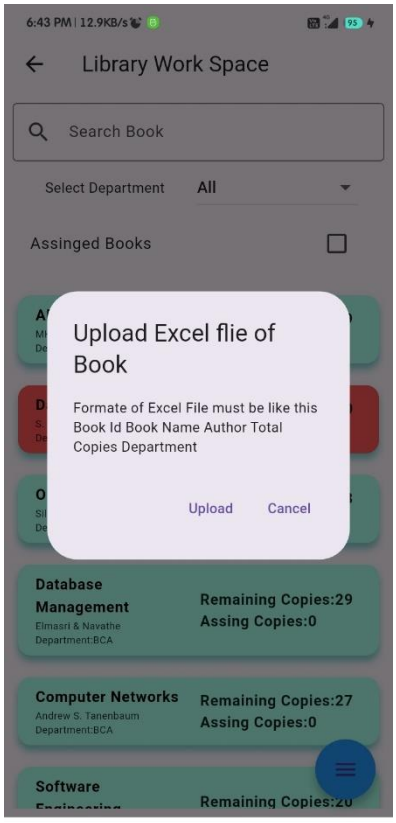
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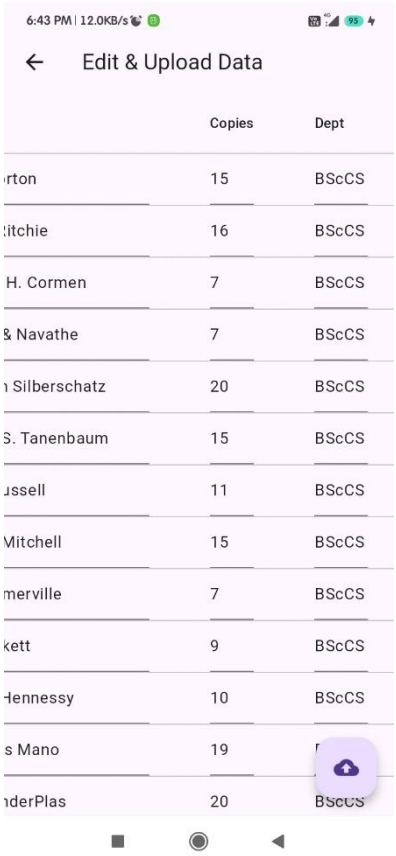
Computer Networks
Andrew S. Tanenbaum
Department:BCA
Remaining Copies:27
Assing Copies:0
Software
Remaining Copies:20


6:43 PM | 8.8KB/s
Edit & Upload Data
Name
Author
Introduction to Computing
Peter
Programming in C
Dennis
Data Structures and Algorithms
Thoma
Database Systems
Elmas
Operating Systems
Abraha
Computer Networks
Andrev
Artificial Intelligence
Stuart
Machine Learning
Tom M
Software Engineering
Ian So
Web Technologies
Jon Du
Computer Architecture
John L
Digital Logic Design
Mo
Python for Data Science
Jake V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H. Cormen
7
BScCS
& Navathe
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BScCS
Silberschatz
20
BScCS
S. Tanenbaum
15
BScCS
ussell
11
BScCS
Mitchell
15
BScCS
merville
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kett
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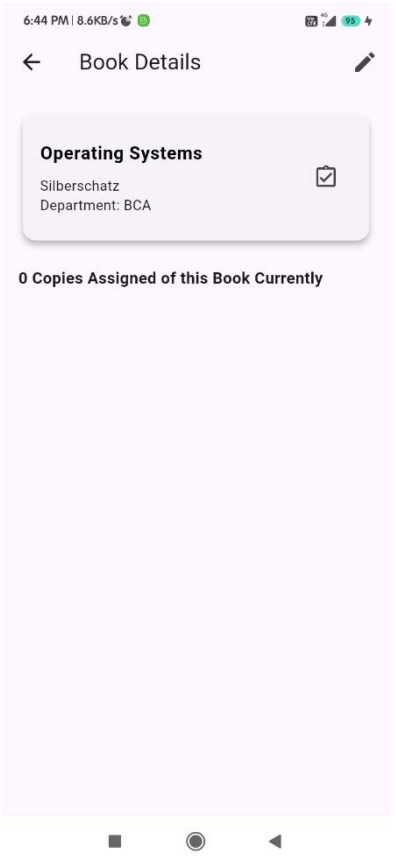
BScCS
Hennessy
10
BScCS
s Mano
19
derPlas
20
BScCS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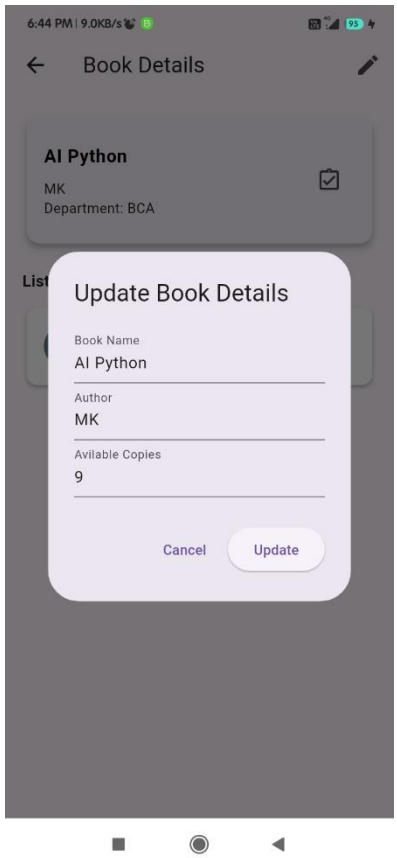
Operating Systems
Silberschatz
Department: BCA
0 Copies Assigned of this Book Currently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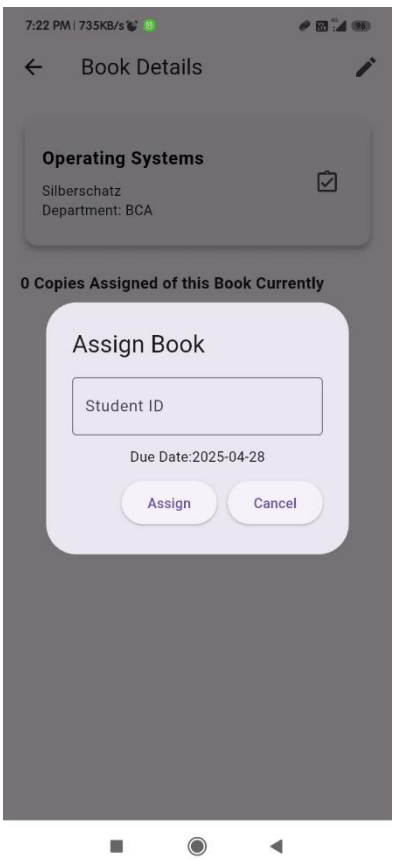
Book Details
AI Python
MK
Department: BCA
Update Book Details
Book Name
AI Python
Author
MK
Avilable Copies
9
Cancel
Update


6:43 PM | 9.0KB/s
Book Details
AI Python
MK
Department: BCA
List of Book Assigned Students
N
Uvesh
Due: 2025-04-22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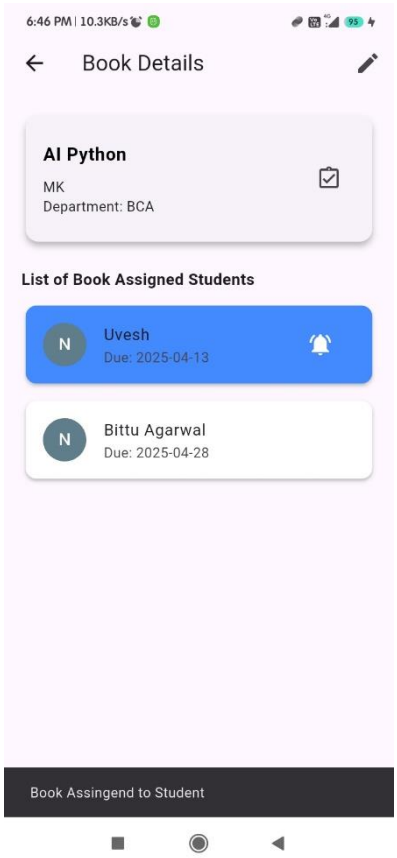
Book Details
Operating Systems
Silberschatz
Department: BCA
0 Copies Assigned of this Book Currently
Assign Book
Student ID
Due Date:2025-04-28
Assign
Cancel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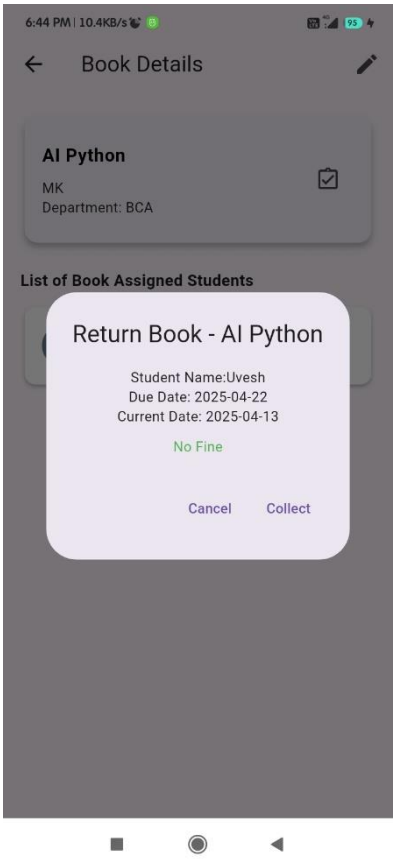
Book Details
AI Python
MK
Department: BCA
List of Book Assigned Students
Uvesh
Due: 2025-04-13
Bittu Agarwal
Due: 2025-04-28
Book Assingend to Student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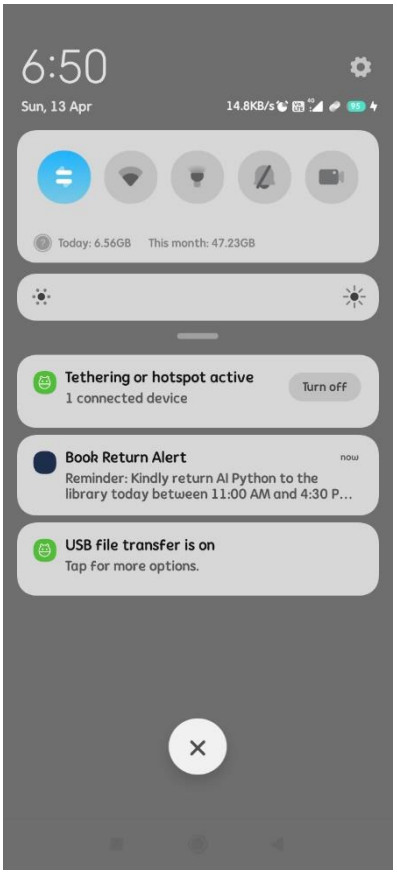
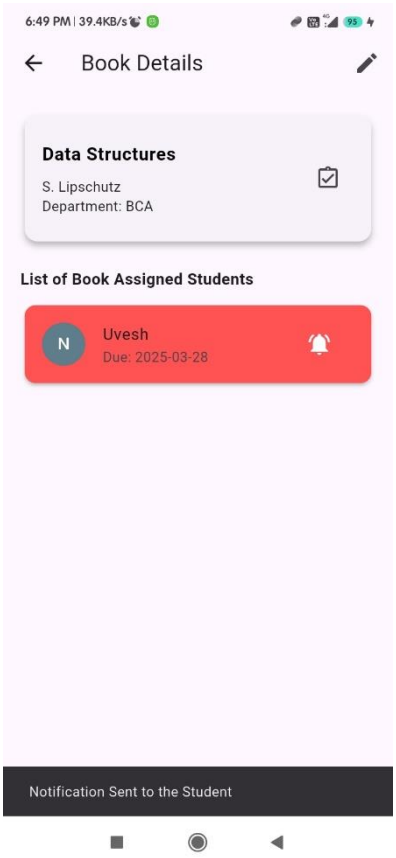
Book Details
AI Python
MK
Department: BCA
List of Book Assigned Students
Return Book - AI Python
Student Name:Uvesh
Due Date: 2025-04-22
Current Date: 2025-04-13
No Fine
Cancel
Collect


6:50
Sun, 13 Apr
14.8KB/s
Today: 6.56GB
This month: 47.23GB
Tethering or hotspot active
1 connected device
Turn off
Book Return Alert
Reminder: Kindly return AI Python to the library today between 11:00 AM and 4:30 P...
USB file transfer is on
Tap for more options.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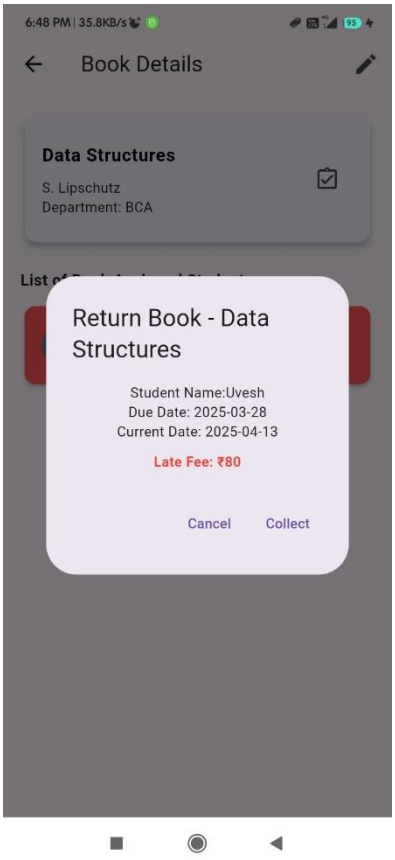
Book Details
Data Structures
S. Lipschutz
Department: BCA
List of Book Assigned Students
Uvesh
Due: 2025-03-28
Notification Sent to the Student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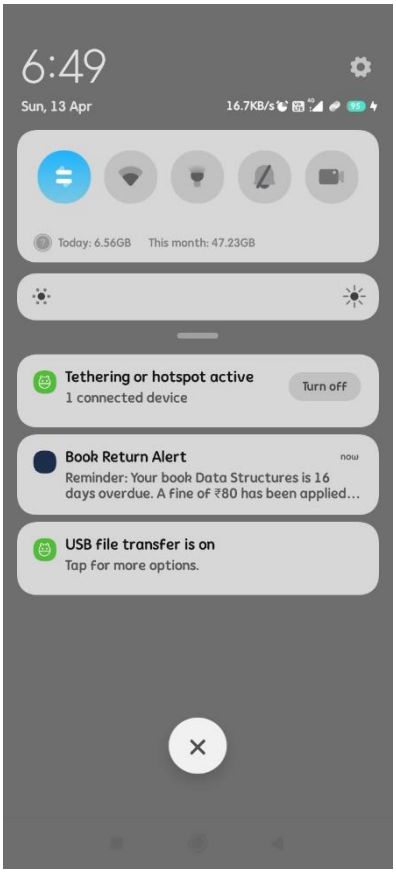
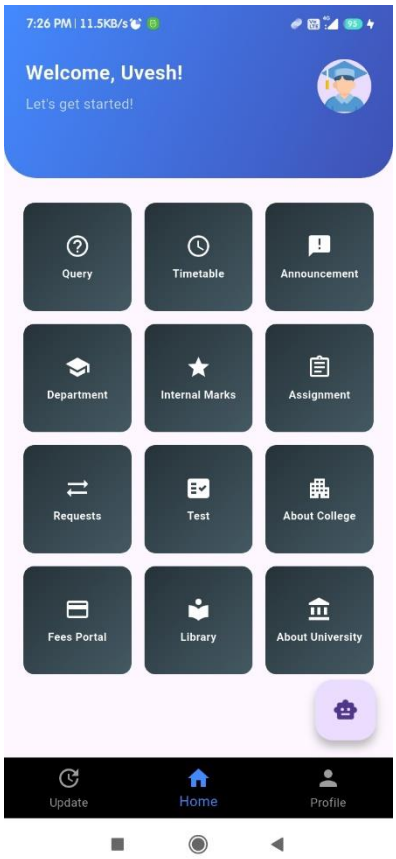
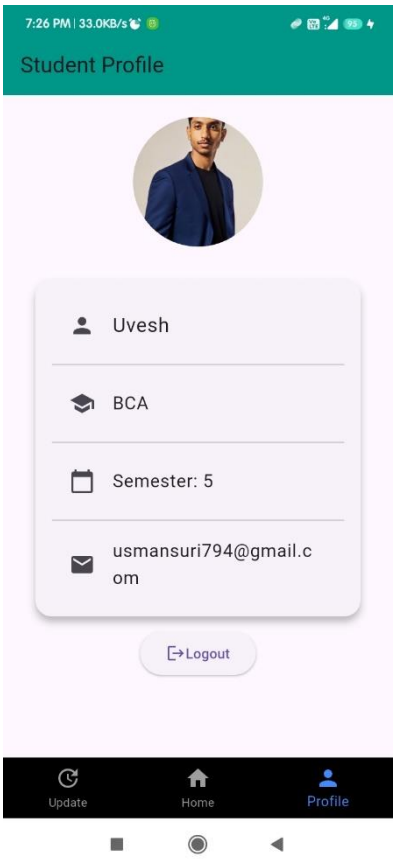
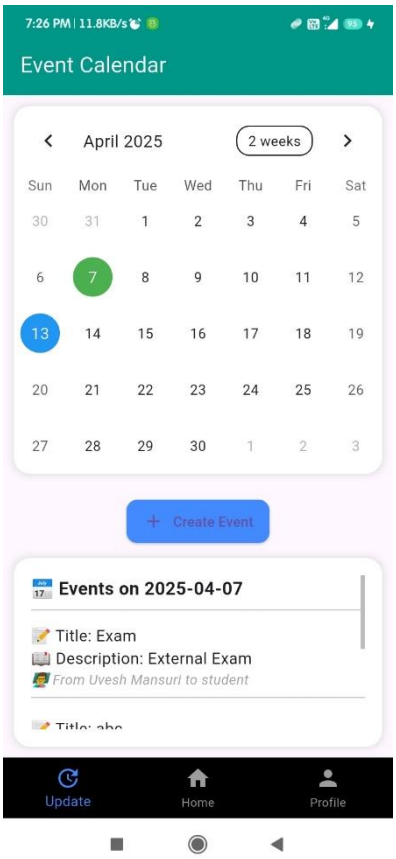
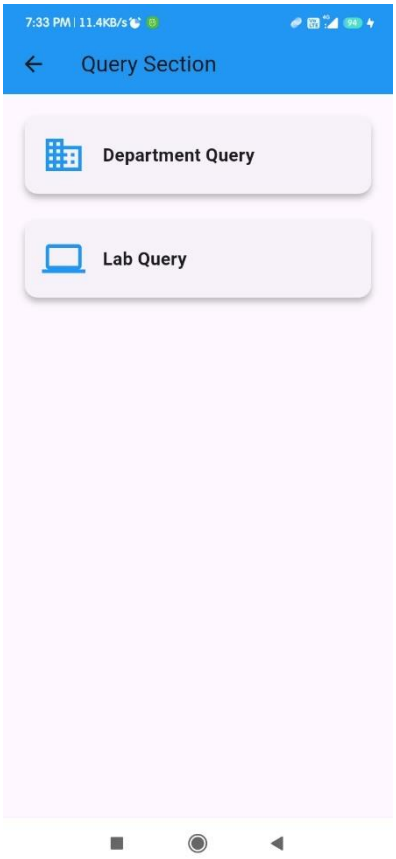
Book Details
Data Structures
S. Lipschutz
Department: BCA
Return Book - Data Structures
Student Name:Uvesh
Due Date: 2025-03-28
Current Date: 2025-04-13
Late Fee: ₹80
Cancel
Collect


6:49
Sun, 13 Apr
16.7KB/s
Today: 6.56GB
This month: 47.23GB
Tethering or hotspot active
1 connected device
Turn off
Book Return Alert
Reminder: Your book Data Structures is 16 days overdue. A fine of ₹80 has been applied...
USB file transfer is on
Tap for more options.

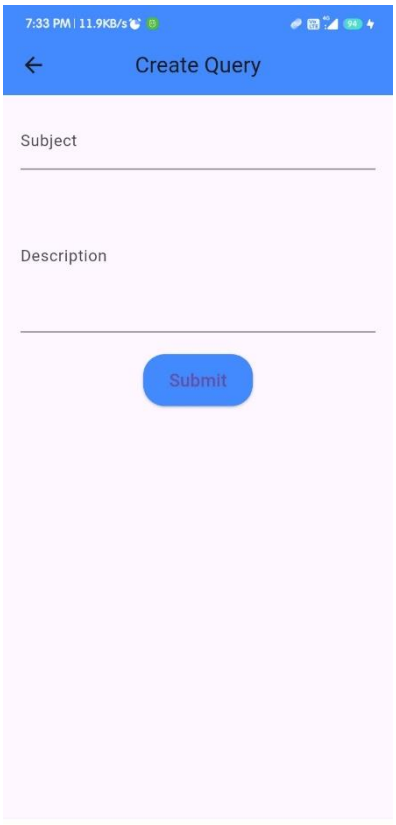

Welcome, Uvesh!
Let's get started!
Query
Timetable
Announcement
Department
Internal Marks
Assignment
Requests
Test
About College
Fees Portal
Library
About University
Update
Home
Profile


Student Profile
Uvesh
BCA
Semester: 5
usmansuri794@gmail.com
Logout
Update
Home
Profile

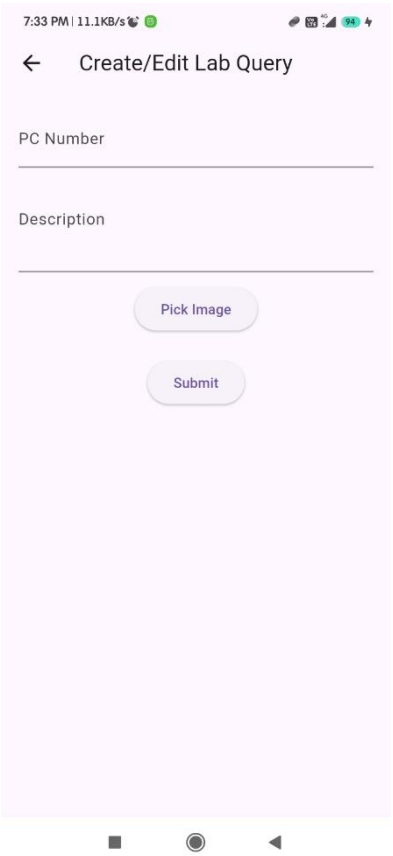

Event Calendar
April 2025
2 weeks
Sun Mon Tue Wed Thu Fri Sat
Create Event
Events on 2025-04-07
Title: Exam
Description: External Exam
From Uvesh Mansuri to student
Update
Home
Profile

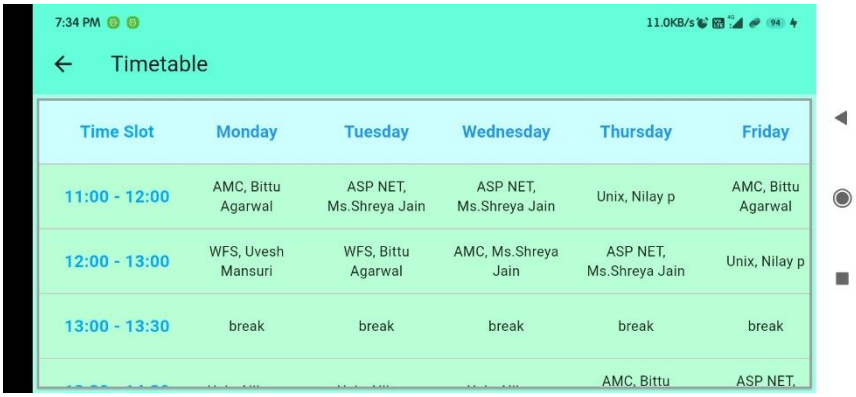

Query Section
Department Query
Lab Query


Your Queries
Test
test


Create Query
Subject
Description
Submit


7:33 PM | 11.1KB/s
Lab Queries
PC Number: 69
Description: OUT OF STORAGE
Student Name: Uvesh


7:33 PM | 11.1KB/s
Create/Edit Lab Query
PC Number
Description
Pick Image
Submit


7:34 PM
11.0KB/s
Timetable
Time Slot
Monday
Tuesday
Wednesday
Thursday
Friday
11:00 - 12:00
AMC, Bittu Agarwal
ASP NET, Ms.Shreya Jain
ASP NET, Ms.Shreya Jain
Unix, Nilay p
AMC, Bittu Agarwal
12:00 - 13:00
WFS, Uvesh Mansuri
WFS, Bittu Agarwal
AMC, Ms.Shreya Jain
ASP NET, Ms.Shreya Jain
Unix, Nilay p
13:00 - 13:30
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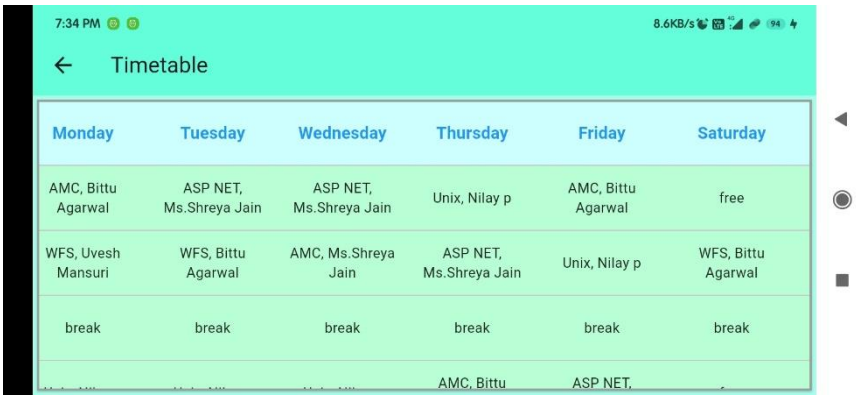
break
break
break
break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8.6KB/s
Timetable
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
AMC, Bittu Agarwal
ASP NET, Ms.Shreya Jain
ASP NET, Ms.Shreya Jain
Unix, Nilay p
AMC, Bittu Agarwal
free
WFS, Uvesh Mansuri
WFS, Bittu Agarwal
AMC, Ms.Shreya Jain
ASP NET, Ms.Shreya Jain
Unix, Nilay p
WFS, Bittu Agarwal
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break
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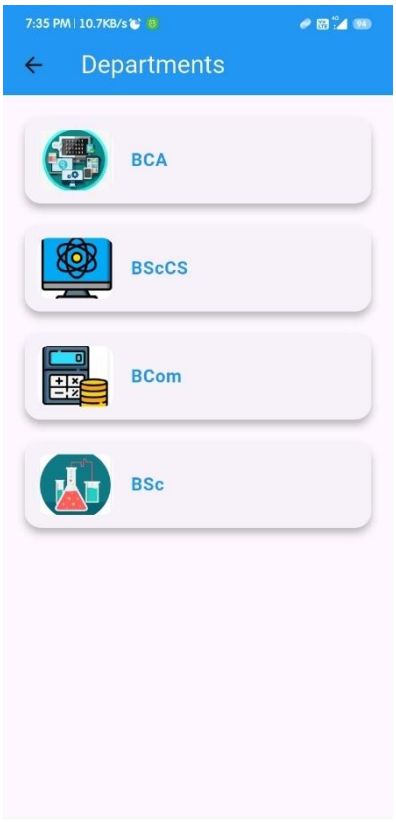
break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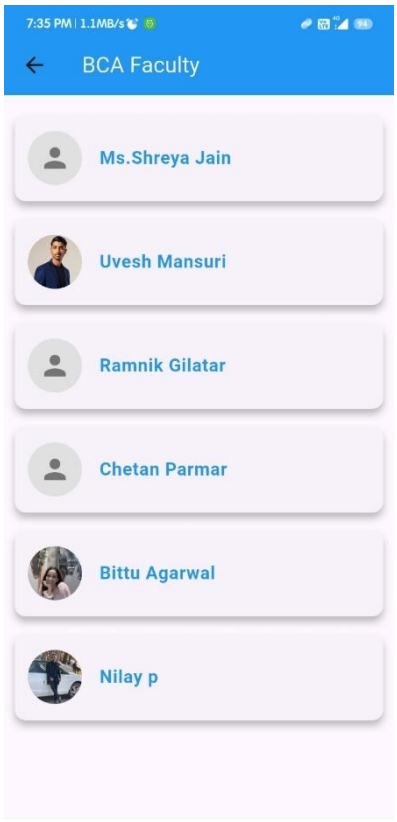
Departments
BCA
BScCS
BCom
BSc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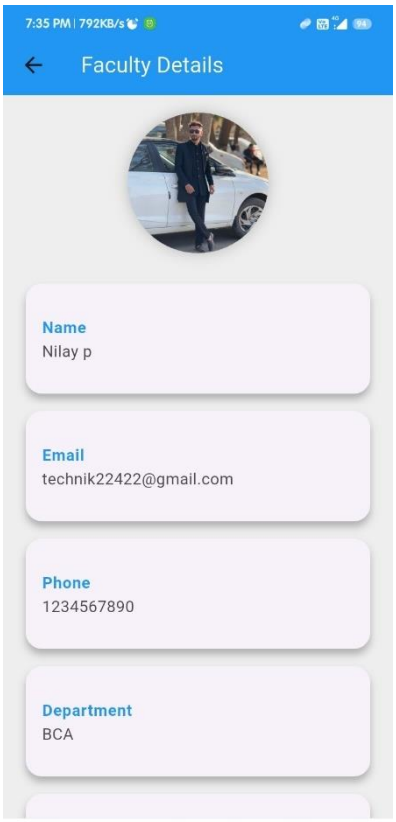
BCA Faculty
Ms.Shreya Jain
Uvesh Mansuri
Ramnik Gilatar
Chetan Parmar
Bittu Agarwal
Nilay p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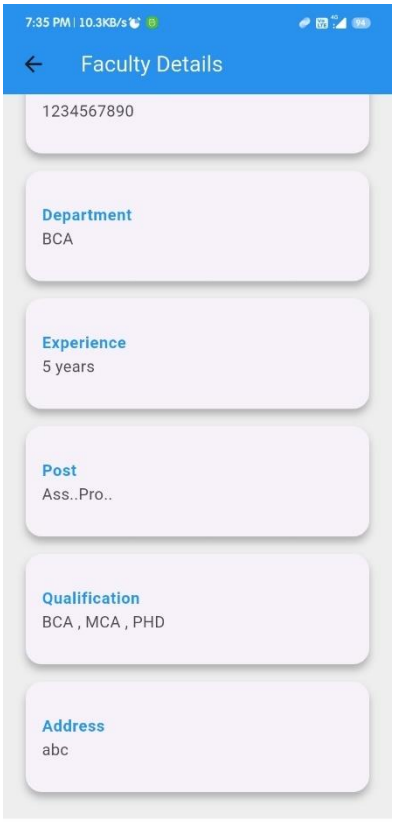
Faculty Details
Name
Nilay p
Email
technik22422@gmail.com
Phone
1234567890
Department
BCA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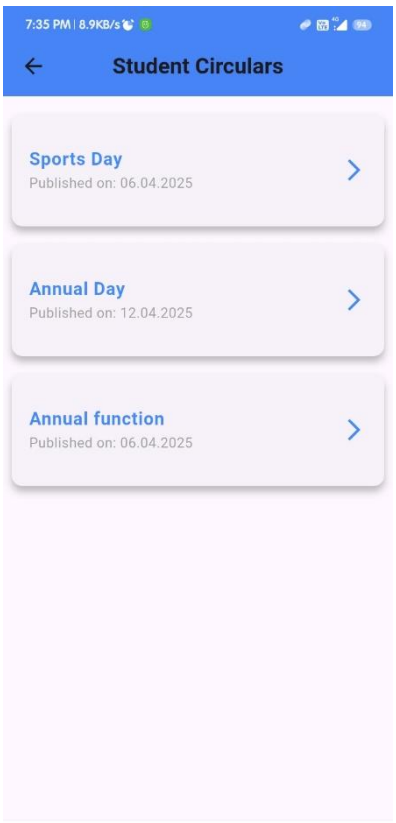
1234567890
Department
BCA
Experience
5 years
Post
Ass..Pro..
Qualification
BCA , MCA , PHD
Address
abc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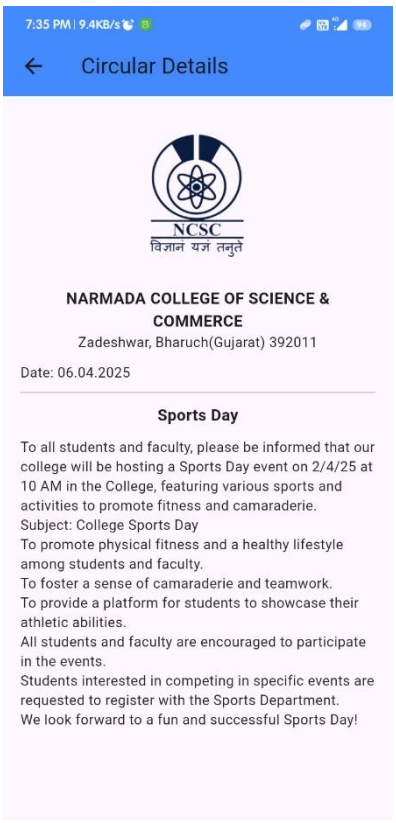
Student Circulars
Sports Day
Published on: 06.04.2025
Annual Day
Published on: 12.04.2025
Annual function
Published on: 06.04.2025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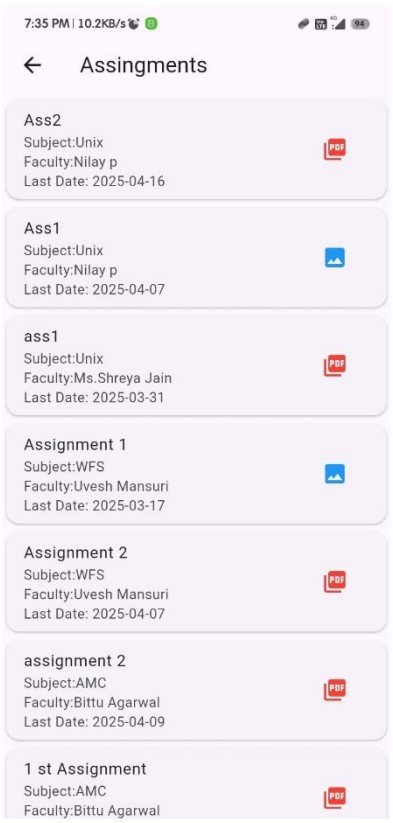
Circular Details
NCSC
विज्ञान यज तनुते
NARMADA COLLEGE OF SCIENCE & COMMERCE
Zadeshwar, Bharuch(Gujarat) 392011
Date: 06.04.2025
Sports Day
To all students and faculty, please be informed that our college will be hosting a Sports Day event on 2/4/25 at 10 AM in the College, featuring various sports and activities to promote fitness and camaraderie.
Subject: College Sports Day
To promote physical fitness and a healthy lifestyle among students and faculty.
To foster a sense of camaraderie and teamwork.
To provide a platform for students to showcase their athletic abilities.
All students and faculty are encouraged to participate in the events.
Students interested in competing in specific events are requested to register with the Sports Department.
We look forward to a fun and successful Sports Day!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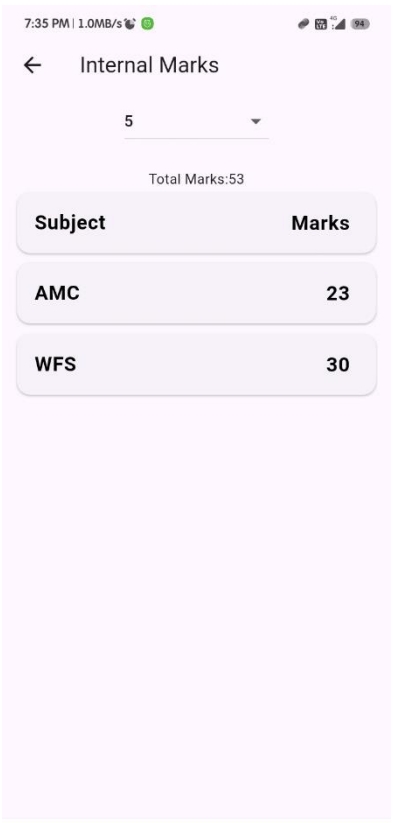
Assingments
Ass2
Subject:Unix
Faculty:Nilay p
Last Date: 2025-04-16
Ass1
Subject:Unix
Faculty:Nilay p
Last Date: 2025-04-07
ass1
Subject:Unix
Faculty:Ms.Shreya Jain
Last Date: 2025-03-31
Assignment 1
Subject:WFS
Faculty:Uvesh Mansuri
Last Date: 2025-03-17
Assignment 2
Subject:WFS
Faculty:Uvesh Mansuri
Last Date: 2025-04-07
assignment 2
Subject:AMC
Faculty:Bittu Agarwal
Last Date: 2025-04-09
1 st Assignment
Subject:AMC
Faculty:Bittu Agarwal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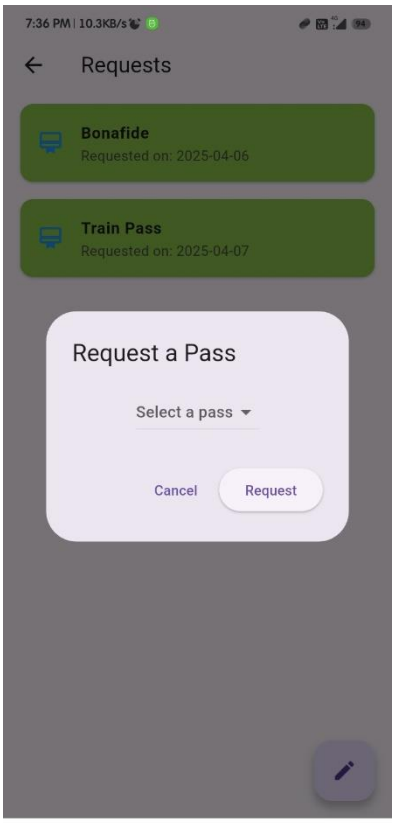
Internal Marks
5
Total Marks:53
Subject
Marks
AMC
23
WFS
30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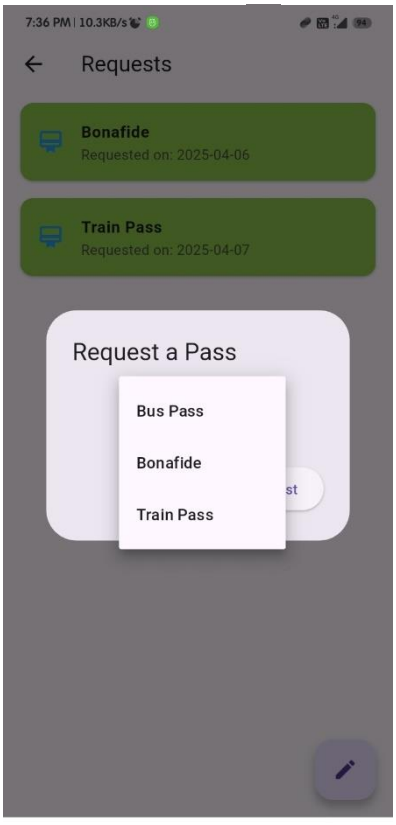
Requests
Bonafide
Requested on: 2025-04-06
Train Pass
Requested on: 2025-04-07
Request a Pass
Select a pass
Cancel
Request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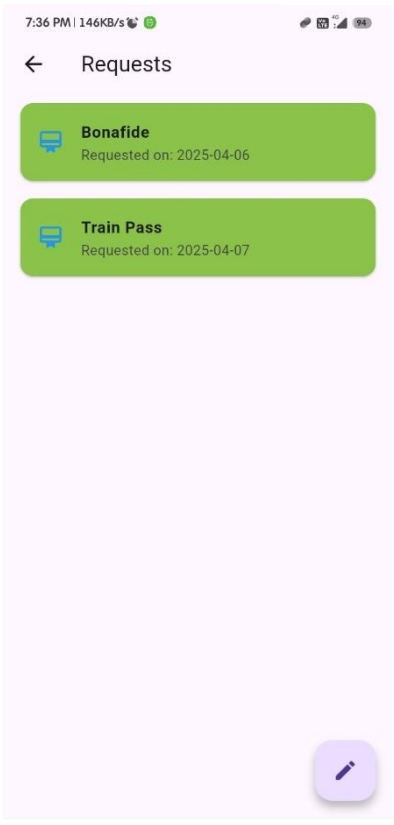
Requests
Bonafide
Requested on: 2025-04-06
Train Pass
Requested on: 2025-04-07
Request a Pass
Bus Pass
Bonafide
Train Pass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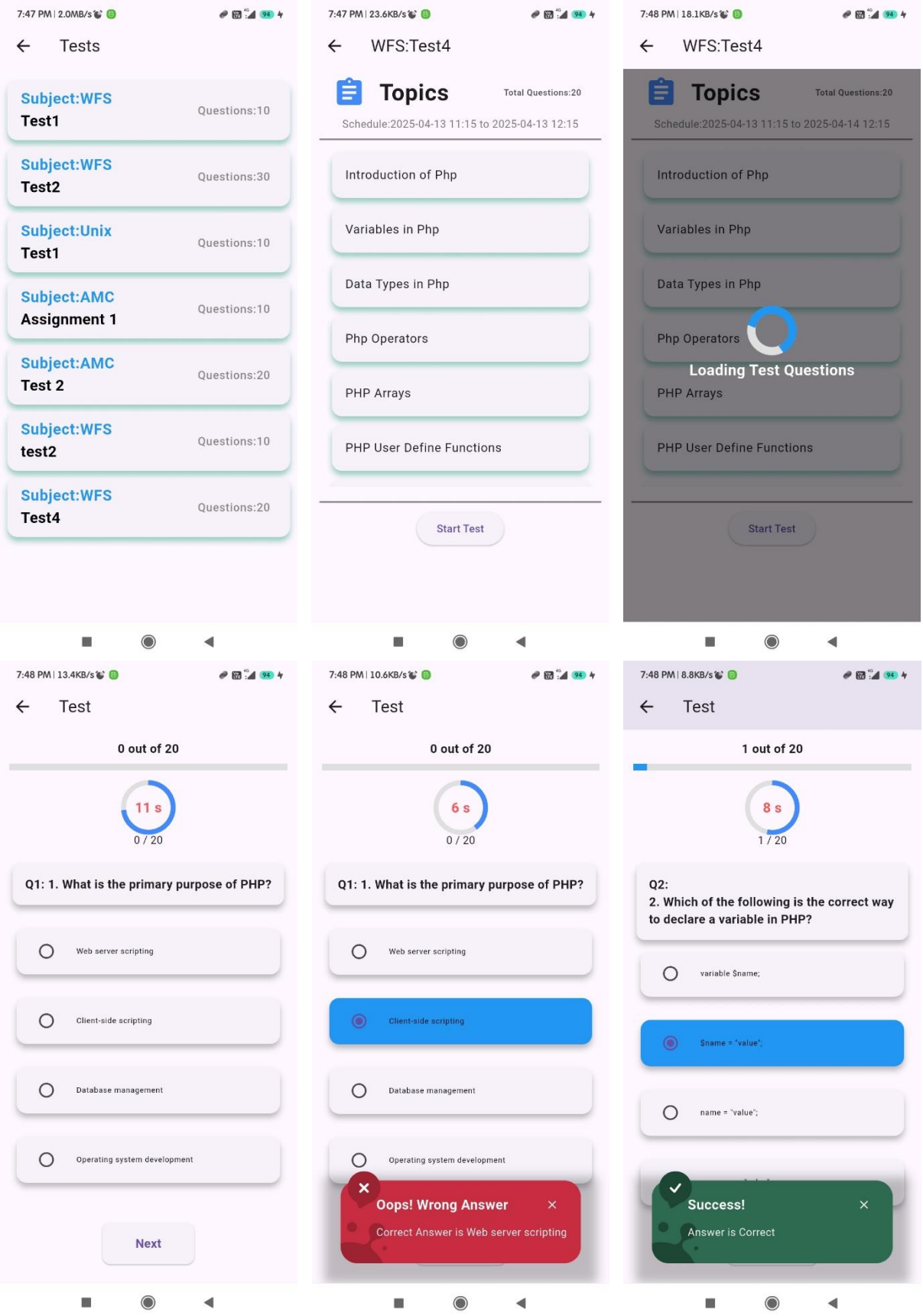
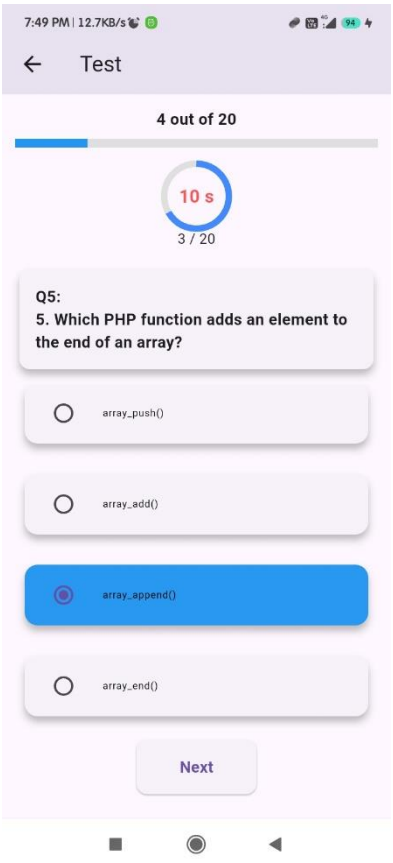
Requests
Bonafide
Requested on: 2025-04-06
Train Pass
Requested on: 2025-04-07


Tests
Subject:WFS
Test1
Questions:10
Subject:WFS
Test2
Questions:30
Subject:Unix
Test1
Questions:10
Subject:AMC
Assignment 1
Questions:10
Subject:AMC
Test 2
Questions:20
Subject:WFS
test2
Questions:10
Subject:WFS
Test4
Questions:20
WFS:Test4
Topics
Total Questions:20
Schedule:2025-04-13 11:15 to 2025-04-13 12:15
Introduction of Php
Variables in Php
Data Types in Php
Php Operators
PHP Arrays
PHP User Define Functions
Start Test
WFS:Test4
Topics
Total Questions:20
Schedule:2025-04-13 11:15 to 2025-04-14 12:15
Introduction of Php
Variables in Php
Data Types in Php
Php Operators
Loading Test Questions
PHP Arrays
PHP User Define Functions
Start Test
Test
0 out of 20
11 s
0 / 20
Q1: 1. What is the primary purpose of PHP?
Web server scripting
Client-side scripting
Database management
Operating system development
Next
Test
0 out of 20
6 s
0 / 20
Q1: 1. What is the primary purpose of PHP?
Web server scripting
Client-side scripting
Database management
Operating system development
Oops! Wrong Answer
Correct Answer is Web server scripting
Test
1 out of 20
8 s
1 / 20
Q2:
2. Which of the following is the correct way to declare a variable in PHP?
variable $name;
$name = "value";
name = "value";
Success!
Answer is Correct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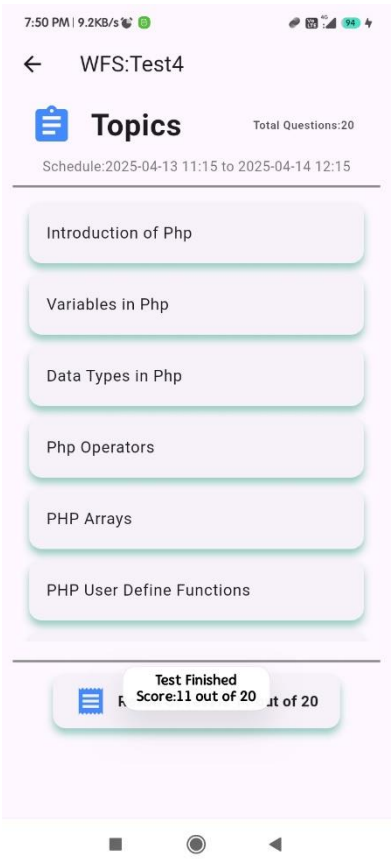
Test
4 out of 20
10 s
3 / 20
Q5:
5. Which PHP function adds an element to the end of an array?
array_push()
array_add()
array_append()
array_end()
Next


7:49 PM | 11.3KB/s
Test
5 out of 20
0 s
3 / 20
Q6:
6. How do you define a user-defined function named "greet" that takes a name as an argument in PHP?
function greet(name) { }
define greet(name) { }
function greet($name) { }
Oops! Time Up
Correct Answer is function greet($name) { }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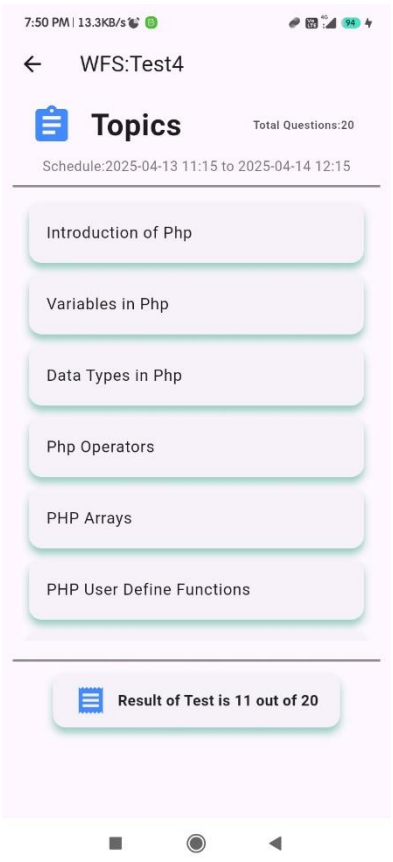
WFS:Test4
Topics
Total Questions:20
Schedule:2025-04-13 11:15 to 2025-04-14 12:15
Introduction of Php
Variables in Php
Data Types in Php
Php Operators
PHP Arrays
PHP User Define Functions
Test Finished
Score:11 out of 20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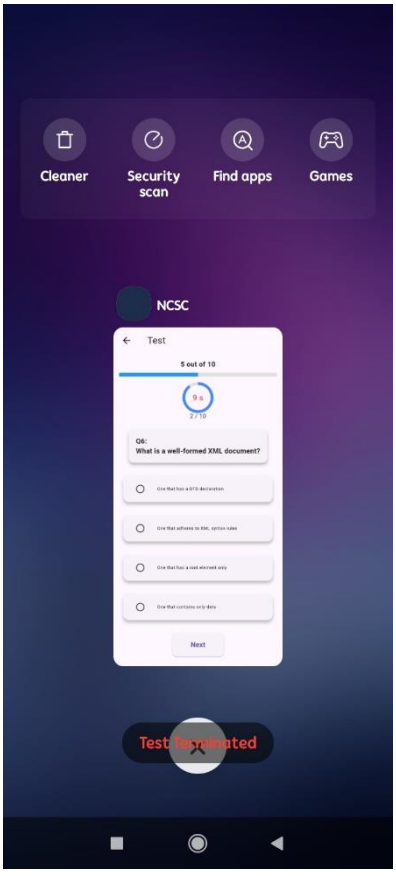
WFS:Test4
Topics
Total Questions:20
Schedule:2025-04-13 11:15 to 2025-04-14 12:15
Introduction of Php
Variables in Php
Data Types in Php
Php Operators
PHP Arrays
PHP User Define Functions
Result of Test is 11 out of 20


Cleaner
Security scan
Find apps
Games
NCSC
Test Terminated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AMC:Assignment 1
Topics
Total Questions:10
Schedule:2025-04-07 06:48 to 2025-04-14 06:48
what is xml
java history
data types of java
class of java
Toast message in android
Result of Test is Terminated


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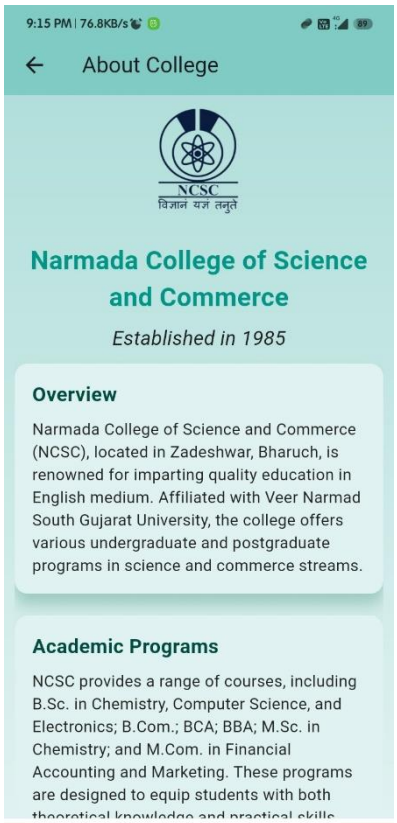
About College
Narmada College of Science and Commerce
Established in 1985
B.Sc. in Chemistry, Computer Science, and Electronics; B.Com.; BCA; BBA; M.Sc. in Chemistry; and M.Com. in Financial Accounting and Marketing. These programs are designed to equip students with both theoretical knowledge and practical skills.
Campus and Facilities
The college campus is equipped with modern facilities, including well-equipped laboratories, a comprehensive library, and amenities that support both academic and extracurricular activities, fostering a holistic learning environment.
Best Practices
NCSC emphasizes the use of Information and Communication Technology (ICT) in teaching, learning, and evaluation processes. The institution also promotes cashless transactions, aligning with the Digital India initiative, and has conducted awareness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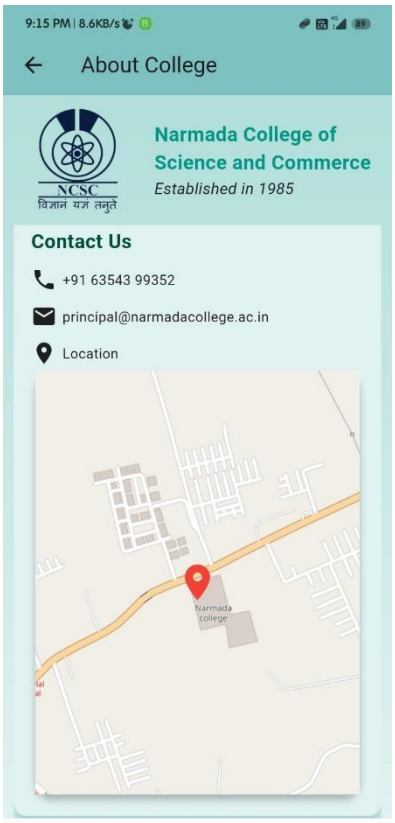
About College
Narmada College of Science and Commerce
Established in 1985
Overview
Narmada College of Science and Commerce (NCSC), located in Zadeshwar, Bharuch, is renowned for imparting quality education in English medium. Affiliated with Veer Narmad South Gujarat University, the college offers various undergraduate and postgraduate programs in science and commerce streams.
Academic Programs
NCSC provides a range of courses, including B.Sc. in Chemistry, Computer Science, and Electronics; B.Com.; BCA; BBA; M.Sc. in Chemistry; and M.Com. in Financial Accounting and Marketing. These programs are designed to equip students with both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About College
Narmada College of Science and Commerce
Established in 1985
Contact Us
+91 63543 99352
principal@narmadacollege.ac.in
Location
Narmada college


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NCSC Library
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MK
Department:BCA
Remaining Copies:8
Assing Copies:2
Data Structures
S. Lipschutz
Department:BCA
Remaining Copies:0
Assing Copies:1
Operating Systems
Silberschatz
Department:BCA
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Assing Copies:0
Database Management
Elmasri & Navathe
Department:BCA
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Computer Networks
Andrew S. Tanenbaum
Department:BCA
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Software Engineering
Ian Sommerville
Department:BCA
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Artificial Intelligence
Stuart Russell
Department:BCA
Remaining Copies:10
Assing Copies:0


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Search Book
pyt
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MK
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Python Programming
Mark Lutz
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Remaining Copies:19
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Python for Data Science
Jake VanderPlas
Department:BScCS
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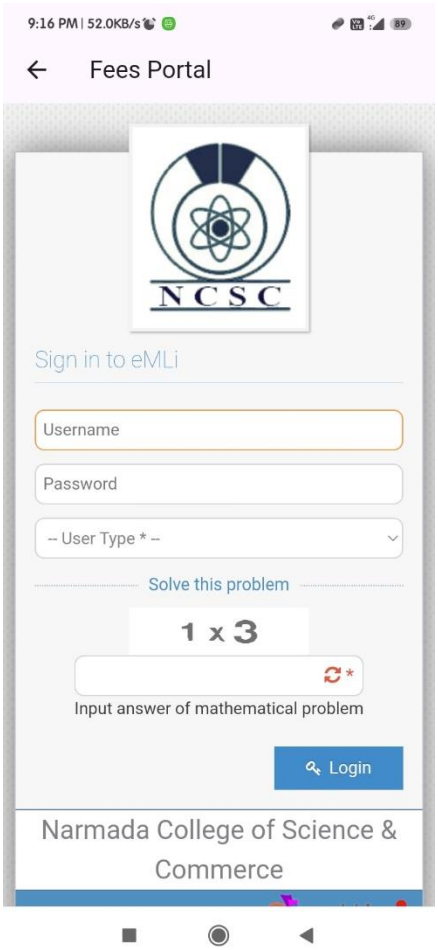
python
pyth
English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Fees Portal
NCSC
Sign in to eMLi
Username
Password
-- User Type * --
Solve this problem
1 x 3
Input answer of mathematical problem
Login
Narmada College of Science & Commerce


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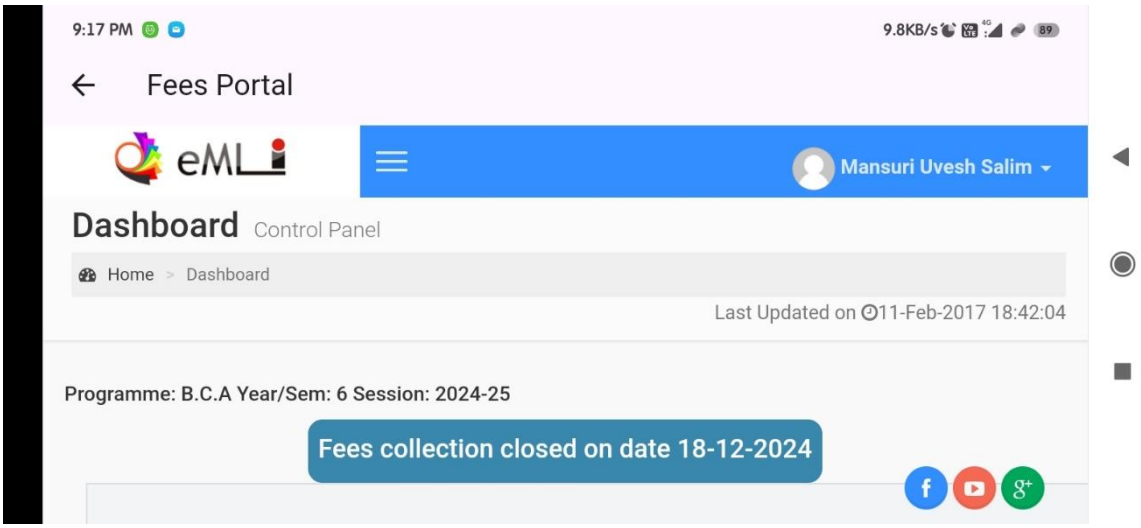
Fees Portal
NCSC
Sign in to eMLi
9898084505
Student
Solve this problem
1 x 3
3
Input answer of mathematical problem
Login
Narmada College of Science & Commerce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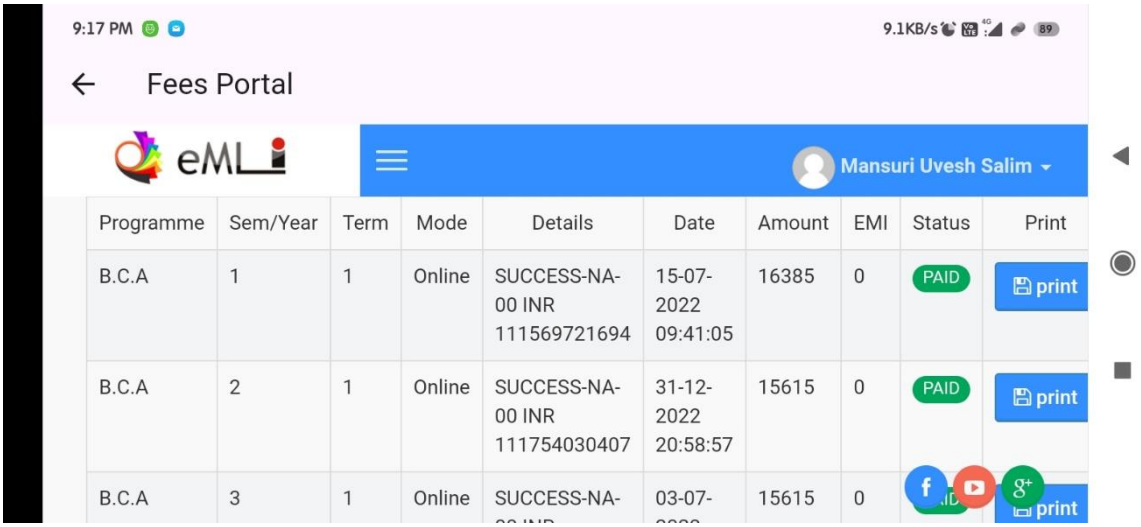
Fees Portal
eMLi
Mansuri Uvesh Salim
Dashboard Control Panel
Home > Dashboard
Last Updated on 11-Feb-2017 18:42:04
Programme: B.C.A Year/Sem: 6 Session: 2024-25
Fees collection closed on date 18-12-2024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eMLi
Mansuri Uvesh Salim
Programme Sem/Year Term Mode Details Date Amount EMI Status Print
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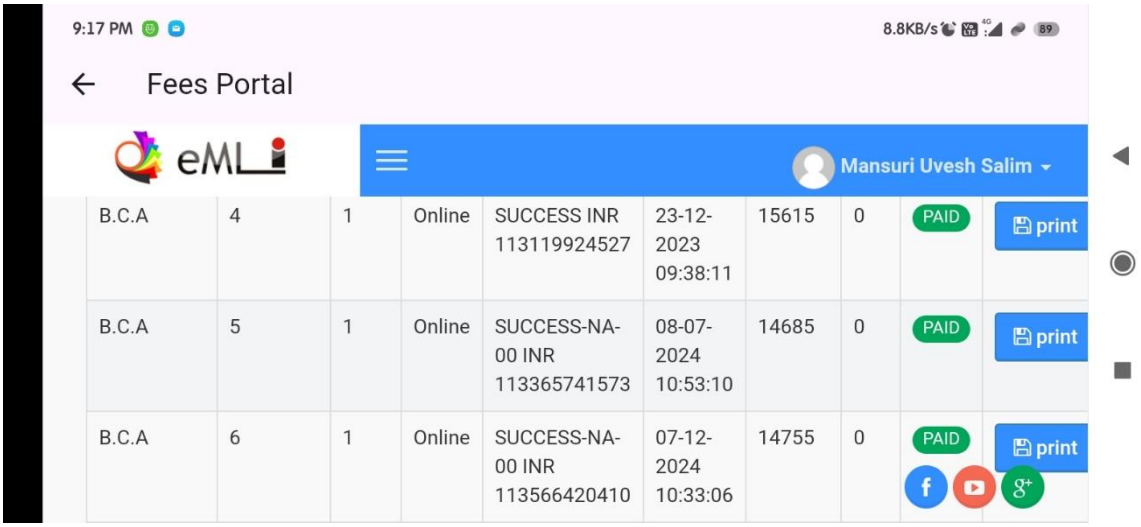
B.C.A 2 1 Online SUCCESS-NA-00 INR 111754030407 31-12-2022 20:58:57 15615 0 PAID print
B.C.A 3 1 Online SUCCESS-NA- 03-07- 15615 0 print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eMLi
Mansuri Uvesh Salim
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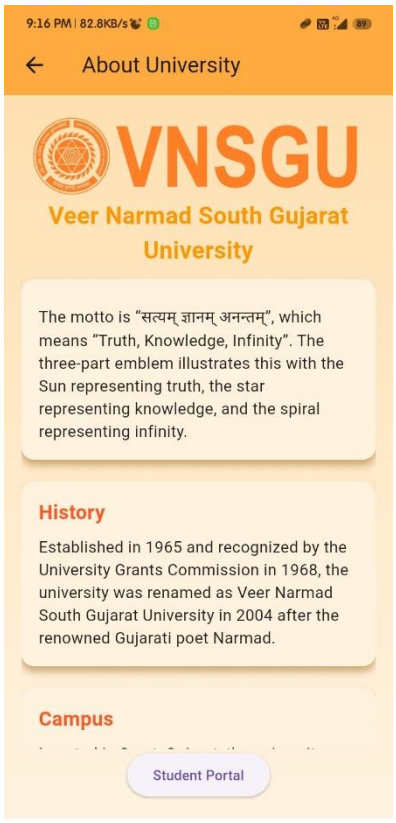
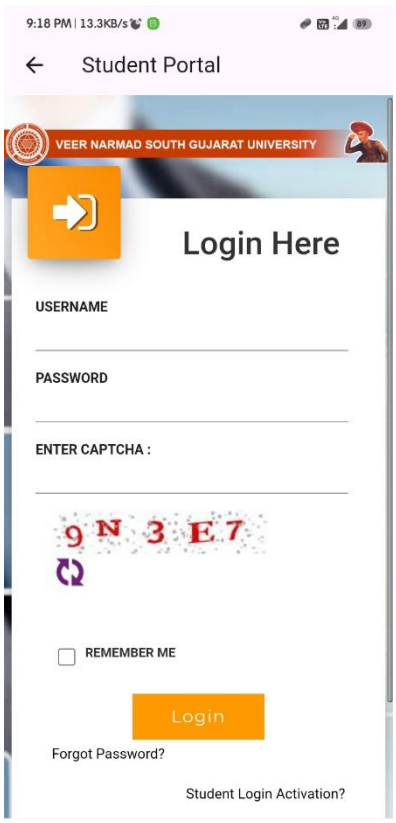
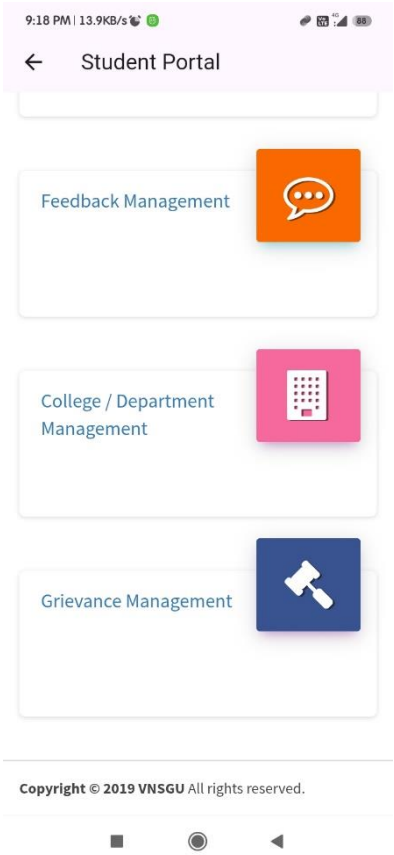

About University
VNSGU
Veer Narmad South Gujarat University
The motto is "सत्यम् ज्ञानम् अनन्तम्", which means "Truth, Knowledge, Infinity". The three-part emblem illustrates this with the Sun representing truth, the star representing knowledge, and the spiral representing infinity.
History
Established in 1965 and recognized by the University Grants Commission in 1968, the university was renamed as Veer Narmad South Gujarat University in 2004 after the renowned Gujarati poet Narmad.
Campus
Student Portal


About University
VNSGU
Veer Narmad South Gujarat University
National Accreditation and Assessment Council in 2022.
Notable Achievements
The university has published over 2,000 scientific papers, contributing significantly to fields like Chemistry, Biology, and Engineering. It ranks among the top universities in India for research output.
Affiliated Colleges
VNSGU has a vast network of affiliated institutions, including 34 Government, 60 Grant-in-aid, and 285 Self-financed Colleges, along with 100 Post-graduate Teaching Centres.
Student Portal


Student Portal
VEER NARMAD SOUTH GUJARAT UNIVERSITY
Login Here
USERNAME
PASSWORD
ENTER CAPTCHA :
9N3E7
REMEMBER ME
Login
Forgot Password?
Student Login Activation?


Student Portal
VNSGU
MANSURI UVESH SALIM
Student Id : 2022039212
Enrollment / Registration Id : E22110154000110033
NARMADA COLLEGE OF SCIENCE & COMMERCE, ZADESHWAR
BACHELOR OF COMPUTER APPLICATION (B.C.A. 2022-25)
(SIXTH SEMESTER)
Placement Management


Student Portal
Feedback Management
College / Department Management
Grievance Management
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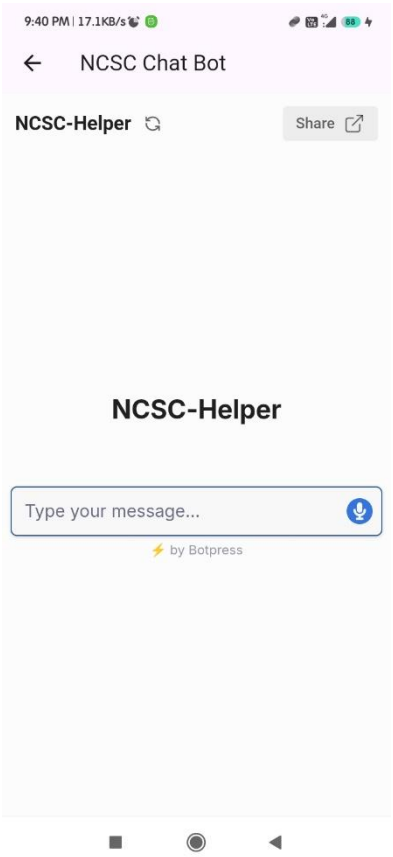
Student Portal
MANSURI UVESH SALIM
Student Id : 2022039212
Enrollment / Registration Id : E22110154000110033
NARMADA COLLEGE OF SCIENCE & COMMERCE, ZADESHWAR
BACHELOR OF COMPUTER APPLICATION (B.C.A. 2022-25)
(SIXTH SEMESTER)
Mobile No. : 9898084505
E-Mail Id : uveshmansuri794@gmail.com
Gender : Male
Category : SEBC
Current Address : SHETH FALIYA VADADLA , NARMADA NAGAR BHARUCH
College :
NARMADA COLLEGE OF SCIENCE & COM
Program :
BACHELOR OF COMPUTER APPLICATION
Semester :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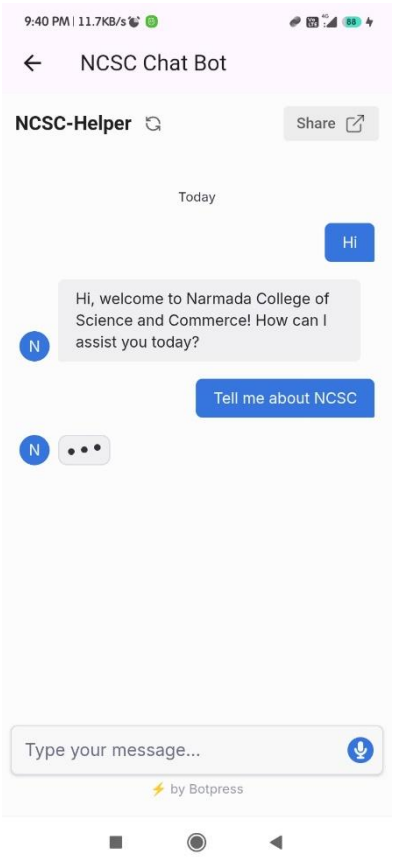
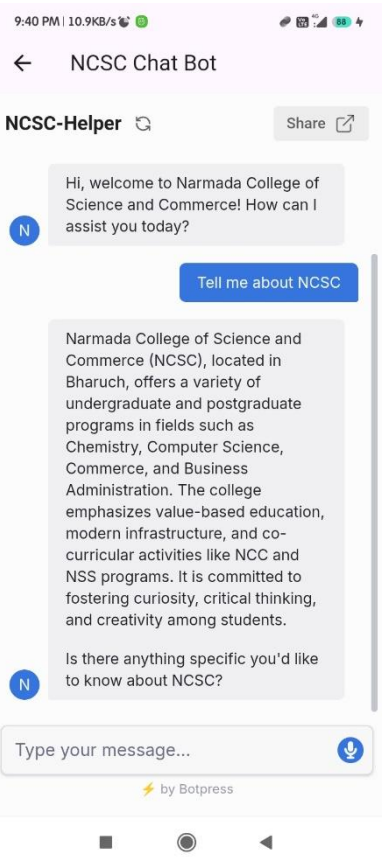
NCSC Chat Bot
NCSC-Helper
Share
NCSC-Helper
Type your message...
by Botpress


9:40 PM | 11.7KB/s
NCSC Chat Bot
NCSC-Helper
Share
Today
Hi
Hi, welcome to Narmada College of Science and Commerce! How can I assist you today?
Tell me about NCSC
Type your message...
by Botpress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NCSC Chat Bot
NCSC-Helper
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Hi, welcome to Narmada College of Science and Commerce! How can I assist you today?
Tell me about NCSC
Narmada College of Science and Commerce (NCSC), located in Bharuch, offers a variety of undergraduate and postgraduate programs in fields such as Chemistry, Computer Science, Commerce, and Business Administration. The college emphasizes value-based education, modern infrastructure, and co-curricular activities like NCC and NSS programs. It is committed to fostering curiosity, critical thinking, and creativity among students.
Is there anything specific you'd like to know about NCSC?
Type your message...
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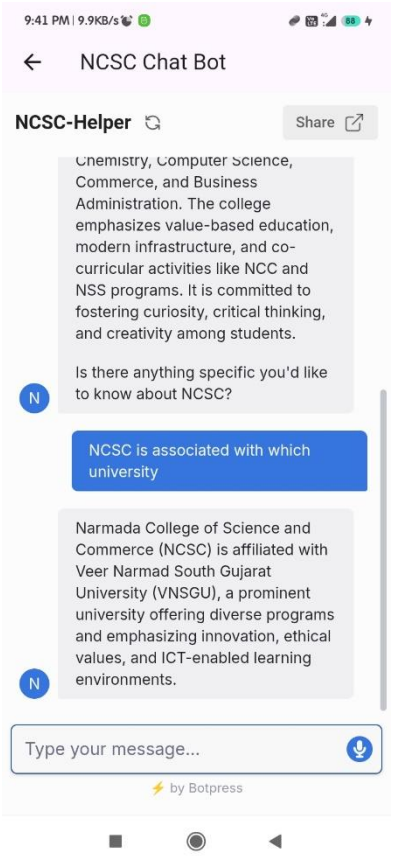
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NCSC Chat Bot
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Chemistry, Computer Science, Commerce, and Business Administration. The college emphasizes value-based education, modern infrastructure, and co-curricular activities like NCC and NSS programs. It is committed to fostering curiosity, critical thinking, and creativity among students.
Is there anything specific you'd like to know about NCSC?
NCSC is associated with which university
Narmada College of Science and Commerce (NCSC) is affiliated with Veer Narmad South Gujarat University (VNSGU), a prominent university offering diverse programs and emphasizing innovation, ethical values, and ICT-enabled learning environments.
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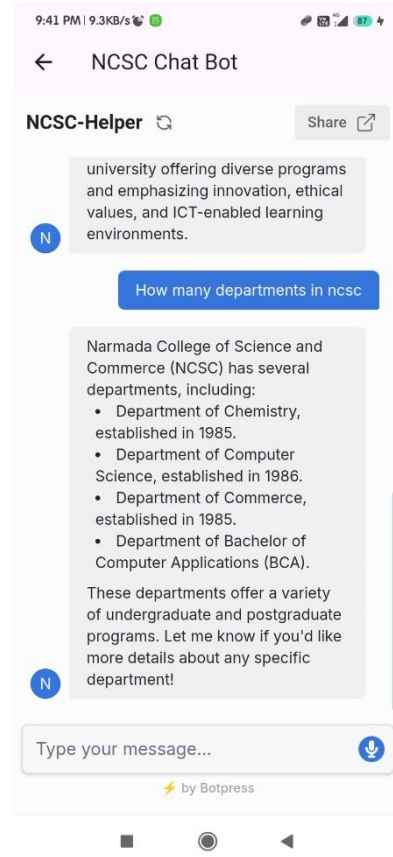
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university offering diverse programs and emphasizing innovation, ethical values, and ICT-enabled learning environments.
How many departments in ncsc
Narmada College of Science and Commerce (NCSC) has several departments, including:
• Department of Chemistry, established in 1985.
• Department of Computer Science, established in 1986.
• Department of Commerce, established in 1985.
• Department of Bachelor of Computer Applications (BCA).
These departments offer a variety of undergraduate and postgraduate programs. Let me know if you'd like more details about any specific department!
Type your message...
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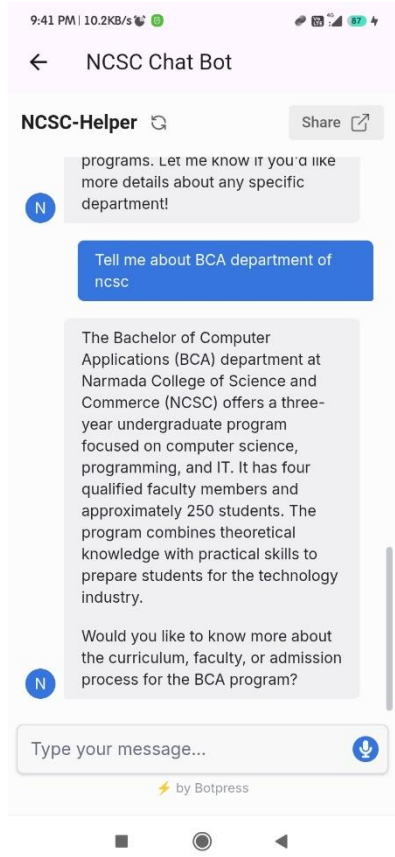
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programs. Let me know if you'd like more details about any specific department!
Tell me about BCA department of ncsc
The Bachelor of Computer Applications (BCA) department at Narmada College of Science and Commerce (NCSC) offers a three-year undergraduate program focused on computer science, programming, and IT. It has four qualified faculty members and approximately 250 students. The program combines theoretical knowledge with practical skills to prepare students for the technology industry.
Would you like to know more about the curriculum, faculty, or admission process for the BCA program?
Type your message...
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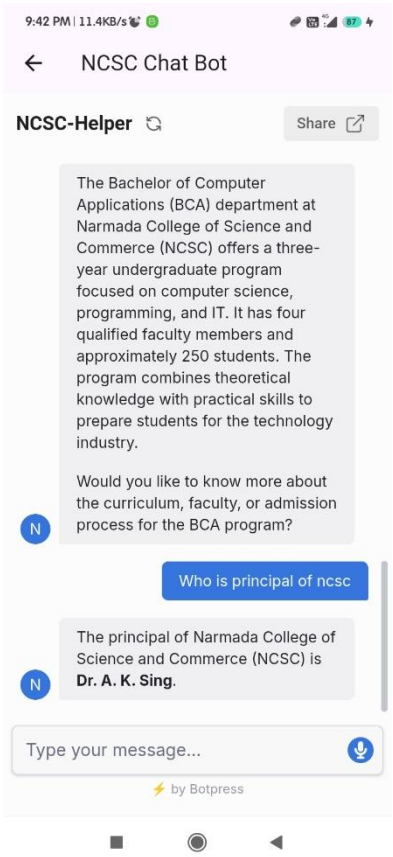
NCSC Chat Bot
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Would you like to know more about the curriculum, faculty, or admission process for the BCA program?
Who is principal of ncsc
The principal of Narmada College of Science and Commerce (NCSC) is Dr. A. K. Sing.
Type your message...
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The principal of Narmada College of Science and Commerce (NCSC) is Dr. A. K. Sing.
Details about faculties of BCA department of ncsc
The Bachelor of Computer Applications (BCA) department at Narmada College of Science and Commerce (NCSC) has a team of qualified faculty members. Here are some details:
Mr. Ramniklal L. Gilatar: Assistant Professor, M.C.A, UGC NET, GATE, PhD (Pursuing).
Mr. Chetan B. Parmar: Assistant Professor, M.C.A., UGC NET, SET.
These faculty members bring expertise and dedication to ensure quality education for the students. Let me know if you'd like more information!
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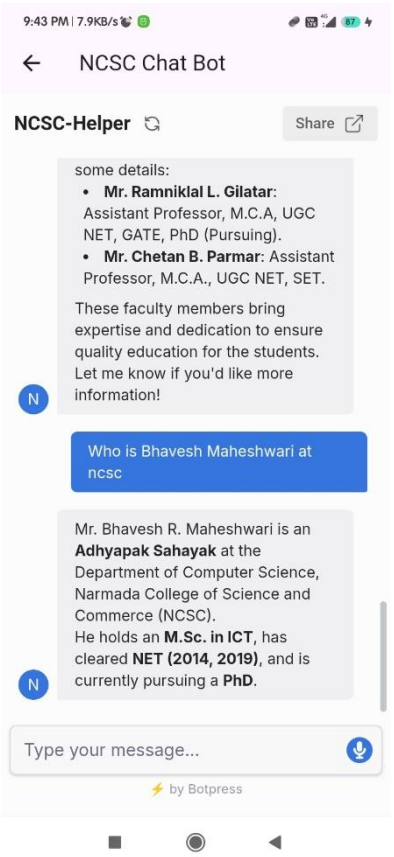
NCSC Chat Bot
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Mr. Ramniklal L. Gilatar: Assistant Professor, M.C.A, UGC NET, GATE, PhD (Pursuing).
Mr. Chetan B. Parmar: Assistant Professor, M.C.A., UGC NET, SET.
These faculty members bring expertise and dedication to ensure quality education for the students. Let me know if you'd like more information!
Who is Bhavesh Maheshwari at ncsc
Mr. Bhavesh R. Maheshwari is an Adhyapak Sahayak at the Department of Computer Science, Narmada College of Science and Commerce (NCSC).
He holds an M.Sc. in ICT, has cleared NET (2014, 2019), and is currently pursuing a PhD.
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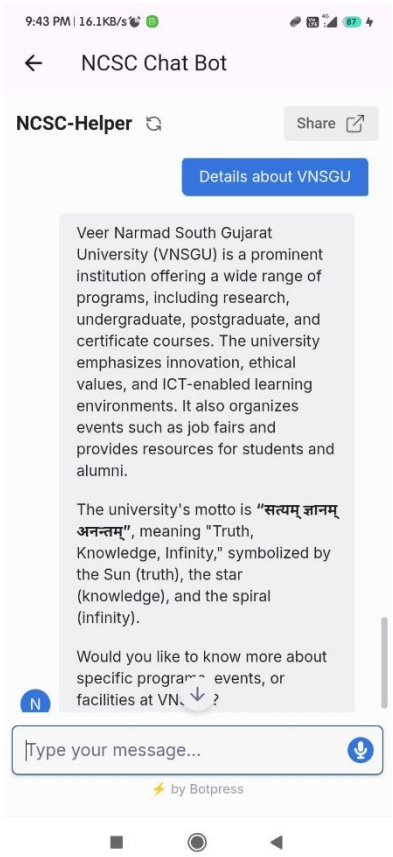
NCSC Chat Bot
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Share
Details about VNSGU
Veer Narmad South Gujarat University (VNSGU) is a prominent institution offering a wide range of programs, including research, undergraduate, postgraduate, and certificate courses. The university emphasizes innovation, ethical values, and ICT-enabled learning environments. It also organizes events such as job fairs and provides resources for students and alumni.
The university's motto is "सत्यम् ज्ञानम् अनन्तम्", meaning "Truth, Knowledge, Infinity," symbolized by the Sun (truth), the star (knowledge), and the spiral (infinity).
Would you like to know more about specific programs, events, or facilities at VNSGU?
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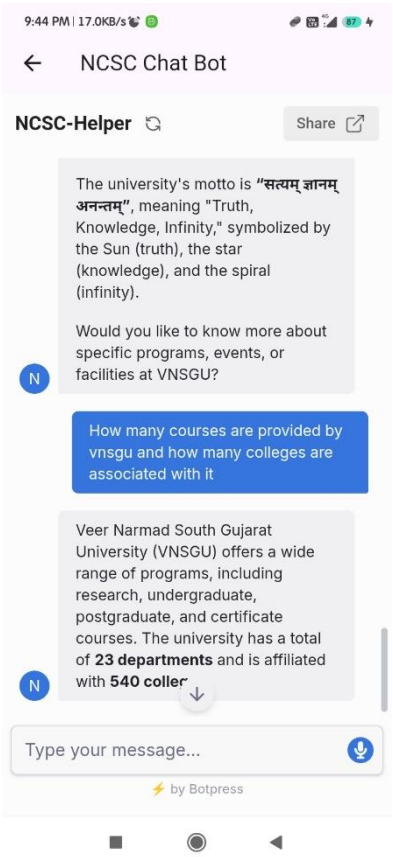
NCSC Chat Bot
NCSC-Helper
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The university's motto is "सत्यम् ज्ञानम् अनन्तम्", meaning "Truth, Knowledge, Infinity," symbolized by the Sun (truth), the star (knowledge), and the spiral (infinity).
Would you like to know more about specific programs, events, or facilities at VNSGU?
How many courses are provided by vnsgu and how many colleges are associated with it
Veer Narmad South Gujarat University (VNSGU) offers a wide range of programs, including research, undergraduate, postgraduate, and certificate courses. The university has a total of 23 departments and is affiliated with 540 colleges.
Type your message...
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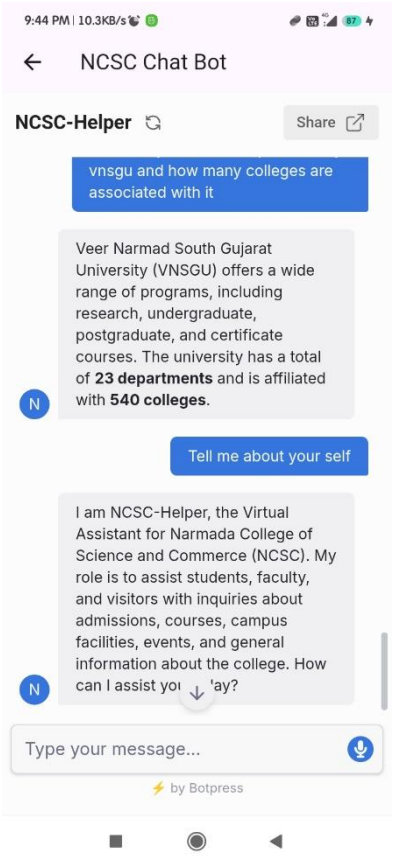
NCSC Chat Bot
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vnsgu and how many colleges are associated with it
Veer Narmad South Gujarat University (VNSGU) offers a wide range of programs, including research, undergraduate, postgraduate, and certificate courses. The university has a total of 23 departments and is affiliated with 540 colleges.
Tell me about your self
I am NCSC-Helper, the Virtual Assistant for Narmada College of Science and Commerce (NCSC). My role is to assist students, faculty, and visitors with inquiries about admissions, courses, campus facilities, events, and general information about the college. How can I assist you today?
Type your message...
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Conclusion

A **NCSC College App** is a comprehensive software solution designed to streamline various administrative and academic processes within a college or educational institution. This App automate administrative tasks such as student enrollment, fee management, staff payroll, and inventory management. This automation reduces manual efforts and paperwork, thereby improving efficiency and accuracy.

The App manages academic activities such as course scheduling, examination management, grading, and attendance tracking. It helps in organizing academic calendars, assigning courses to faculty, and monitoring student progress.

NCSC College App maintain comprehensive databases of student information, including personal details, academic records, attendance, and disciplinary records. This centralized repository enables easy access to student data and supports informed decision-making.

References

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