

# COLLEGE APP

## WITH

## ADMIN APP



# INTRODUCTION

## **Overview: Brief introduction to app development and the importance of planning.**

- App development is a complex process that involves designing, building, and testing software applications to solve real-world problems. Whether it's for mobile, web, or desktop, the success of an app largely depends on how well it is planned and executed.
- **Planning** is one of the most critical phases in app development. It helps:
- **Clarify goals and purpose:** Defining what the app aims to achieve and who it serves is essential for aligning the development process with the users' needs.
- **Structure functionality:** Outlining the app's main features, user flows, and design ensures the development team is on the same page.
- In this presentation, we'll see how planning was applied to the development of the College App, ensuring it meets the needs of students, faculty, and admins in a streamlined, efficient manner



# APP INTRODUCTION

---

The purpose of the **College App** is to streamline communication and management between students, faculty, and administrators in an educational institution. It offers features like course management, announcements, event scheduling, and user profile handling, all tailored to the specific roles of students, faculty, and admin. The app aims to improve efficiency by centralizing information and tasks, making it easier for users to stay organized and informed.

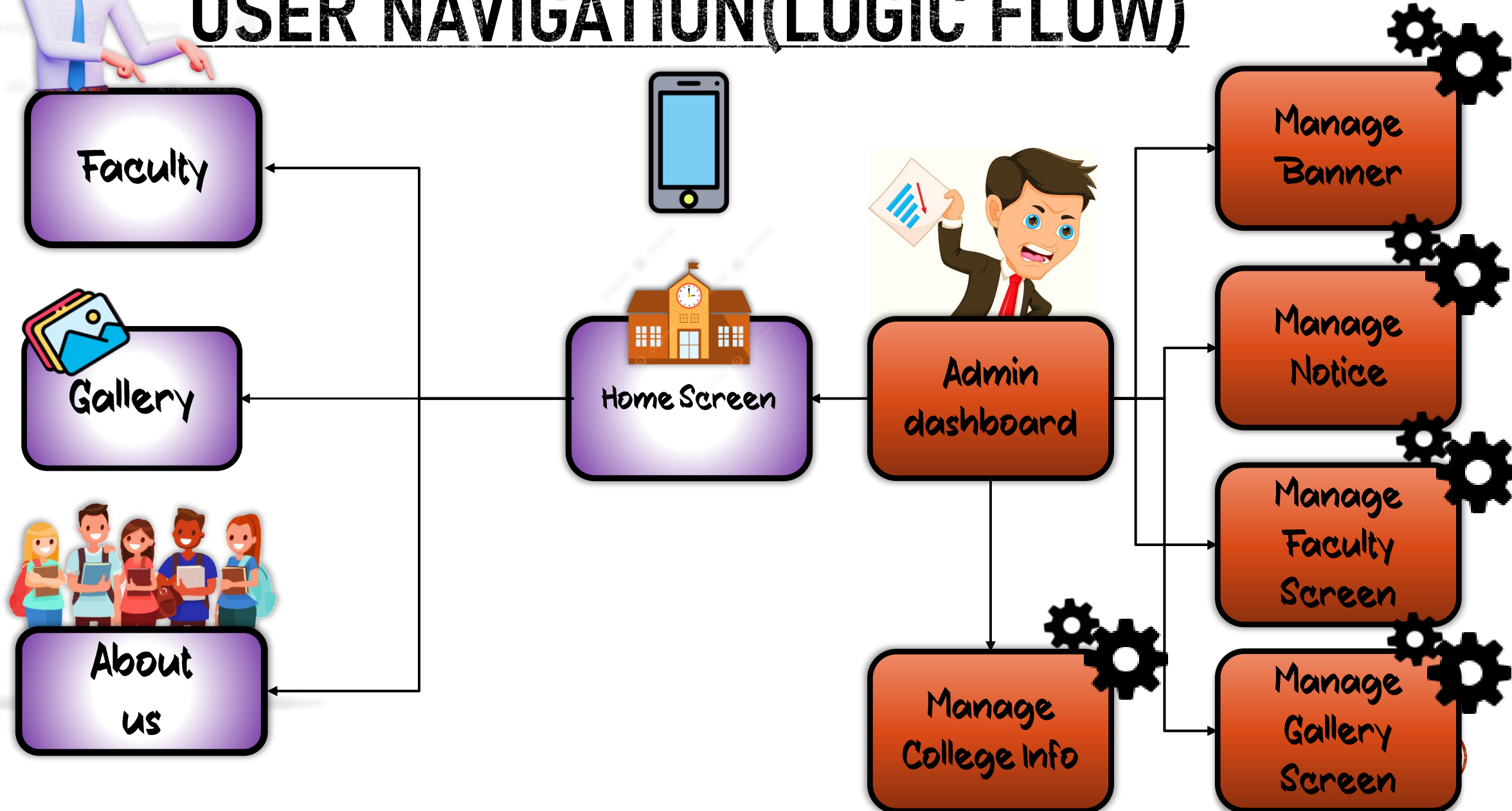


# APP PURPOSE

The purpose of the **College App** is to simplify and enhance the interaction between students, faculty, and administrators within a college. It provides a centralized platform for managing courses, announcements, events, and profiles, ensuring effective communication and easy access to essential information for all users. The app aims to improve academic and administrative efficiency by offering tailored features for each role, helping users stay organized and engaged

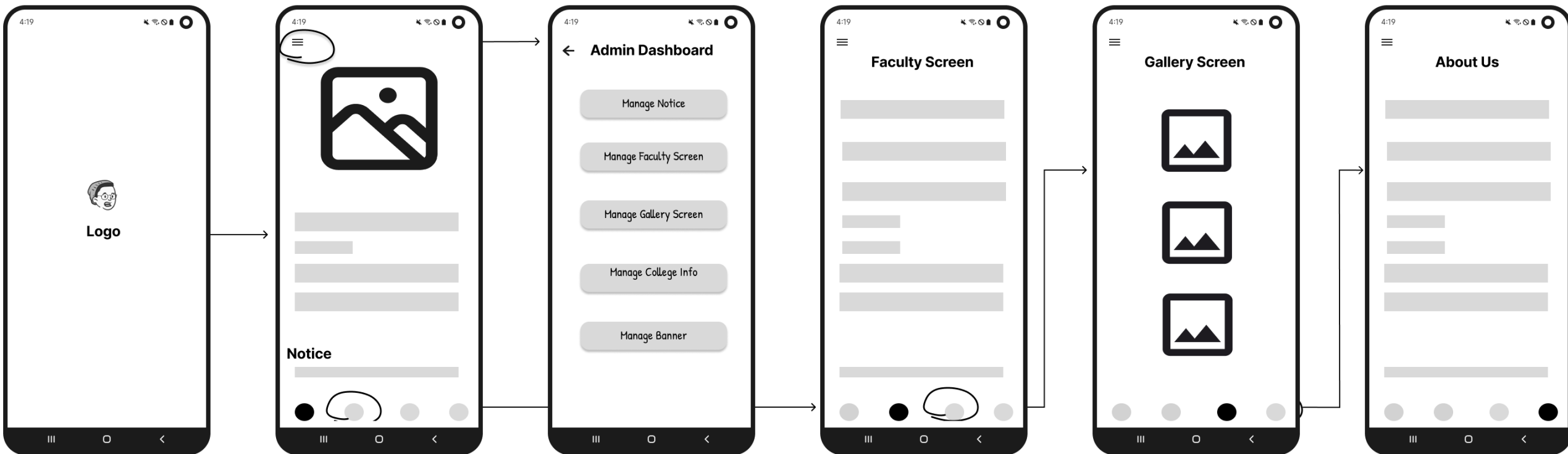


# USER NAVIGATION (LOGIC FLOW)



# WIREFRAME

## WireFrame



# APP PLANNING

---

## Role-Based Dashboard:

- Dynamic home screen for Students, Faculty, and Admin, showing personalized information and actions for each user role.
- **Announcements:**
  - Post and view course-related or college-wide announcements.
- **Students:** Receive course-specific updates.
- **Faculty:** Post course-related announcements.
- **Admin:** Post global announcements visible to everyone.
- **Events Management:**
  - View and manage college events (academic and extracurricular).
- **Students:** RSVP and view upcoming events.
- **Faculty:** Create or manage academic events.
- **Admin:** Organize and oversee all college-wide events.
- **Profile Management:**
  - View and update personal information.
- **Students & Faculty:** Edit academic profiles.
- **Admin:** View and manage profiles of all users.





# ADMIN PANEL

- **Admin Panel:**
- **User Management:** Admins can add, edit, and delete users.
- **Course Management:** Create, edit, or delete courses, assign faculty.
- **Global Announcements:** Manage college-wide notifications and updates.
- **Push Notifications (Future Feature):**
- Real-time alerts for new announcements, upcoming events, or course updates.
- **Offline Access (Future Feature):**
- Allow users to access key information, like courses and announcements, without an internet connection.





# TARGET AUDIENCE

---

The target audience for the college app includes:

## **1.Students:**

- 1.Current students who need access to information like faculty details, notices, gallery images, and general college updates.

## **2.Faculty:**

- 1.Professors and academic staff who can access relevant college updates, manage academic content, and communicate with students.

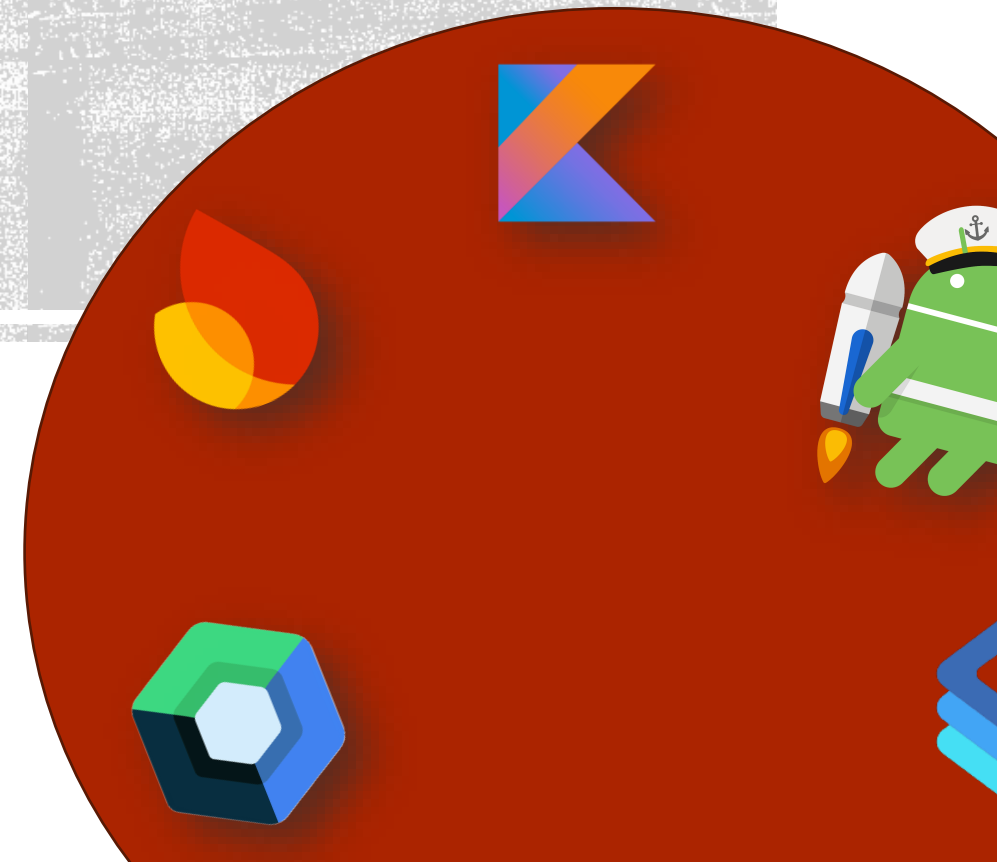
## **3.Administrators:**

- 1.Admin staff who manage the app's content, such as notices, banners, gallery images, and faculty details.



# TECHNOLOGIES USED

- JETPACK COMPOSE
- KOTLIN
- FIREBASE
- JETPACK NAVIGATION COMPONENT
- COIL



# TECHNOLOGIES USED

## - JETPACK COMPOSE

- **UI Framework:** For building the user interface declaratively using composable functions.
- **Material Design:** Leverage Compose's built-in support for Material Design to create a modern UI/UX.

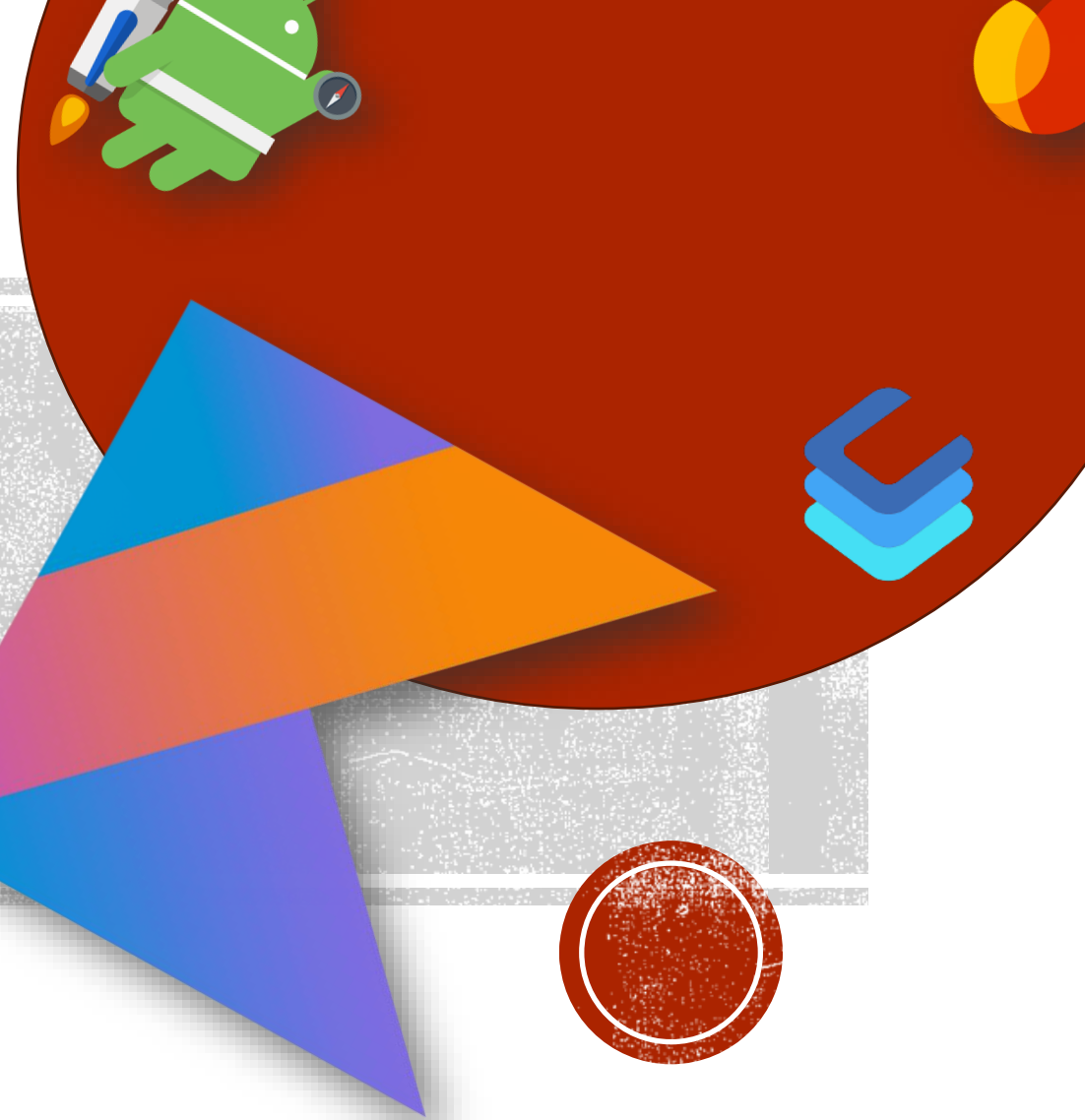


# TECHNOLOGIES USED

# -KOTLIN

## Primary language:

Kotlin is used for all the app's logic, networking, and backend functionality.





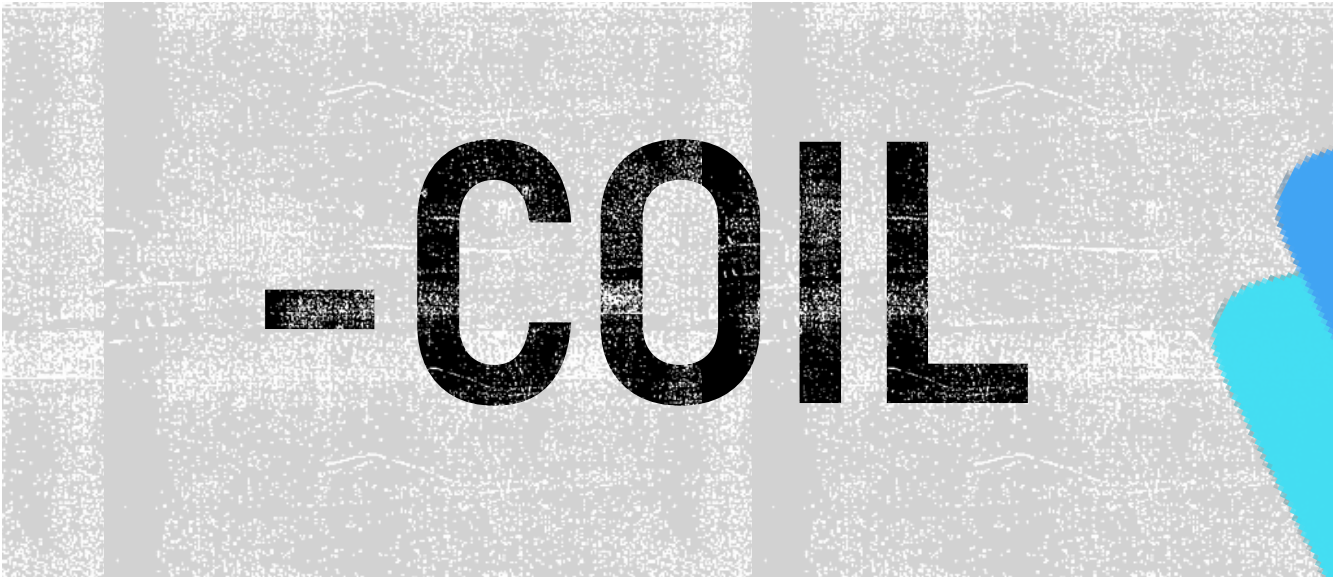
# TECHNOLOGIES USED

## - FIREBASE

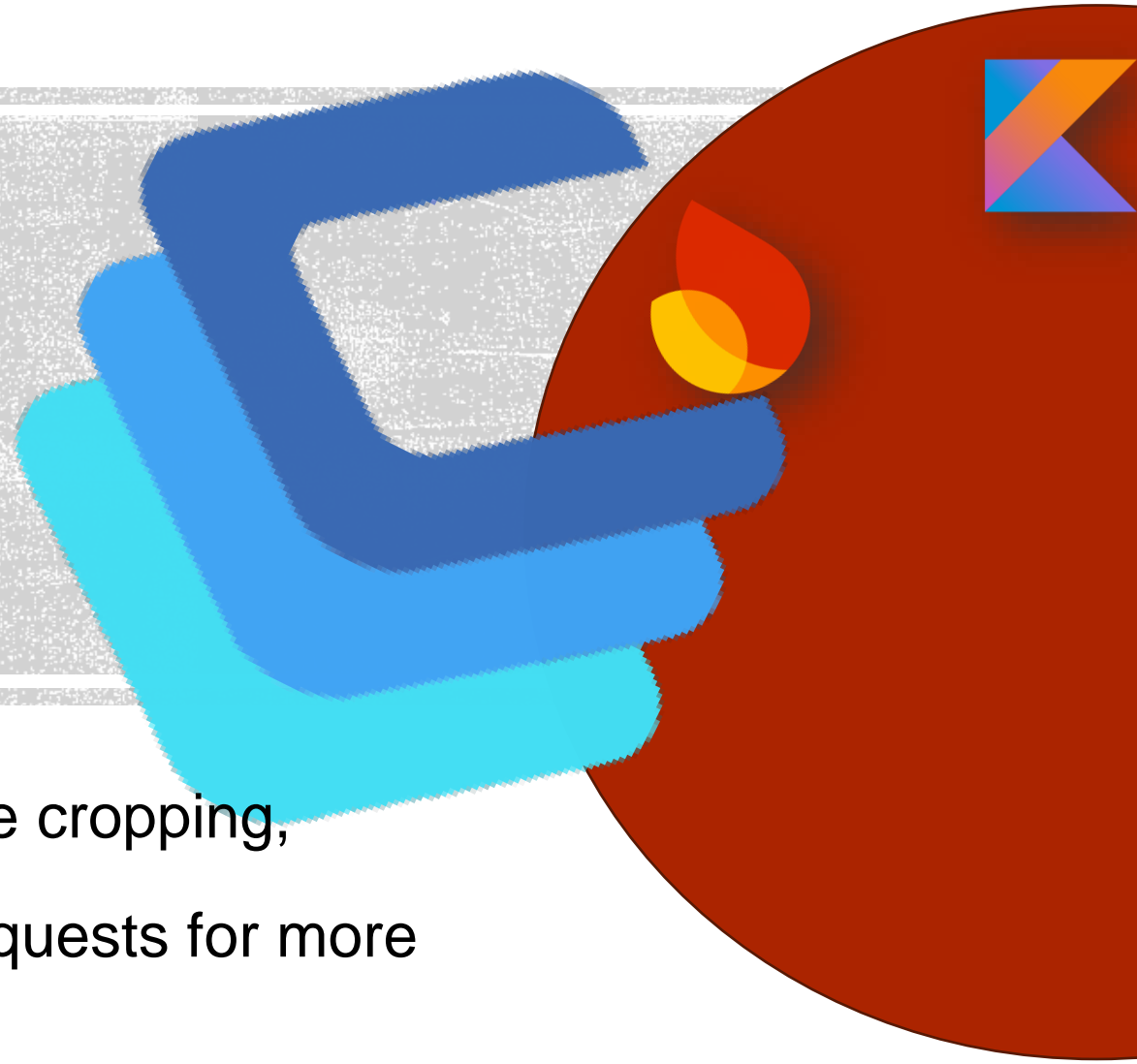
- **Authentication:** For user login via Google or Email.
- **Realtime Database / Fire store:** For storing and syncing data in real time, such as student grades or chat features.
- **Push Notifications:** To alert students about important updates, class reminders, or announcements.



# TECHNOLOGIES USED

The Coil logo features the text '- COIL' in a bold, black, monospace-style font. The text is centered within a rectangular area that has a light gray background with a subtle, darker gray grid pattern. The hyphen is small and positioned to the left of the word 'COIL'.

- COIL



Coil provides various advanced features:

- Transformations: apply transformations like cropping, resizing, or blurring.
- Custom requests: create custom image requests for more control.
- Caching: configure caching behavior.
- Dependency injection: integrate coil with your di framework

# TECHNOLOGIES USED

## -JETPACK NAVIGATION COMPONENT

For managing app navigation within Compose, such as switching between screens like student dashboard, course details, and notifications.





# SCREENS

WORKING



# FOR ADMIN

## • MANAGE BANNER

Main Features of Manage Banner Screen for Admin:

1.View Banners

2.Add New Banner

1. Fields for:

1.**Title:** Short text displayed on the banner.

2.**Description:** A longer message or explanation.

3.**Upload Image:** Admins can select an image from their files or use a preset template.

2. **Submit Button:** Adds the banner to the home screen once all fields are filled in.

3.Edit Existing Banner

4.Delete Banner



# FOR ADMIN

- MANAGE FACULTY

## Main Features of Manage Faculty Screen for Admin:

### 1.View Faculty List:

Admins can see a list of all faculty members currently registered in the system.

### 2.Add New Faculty:

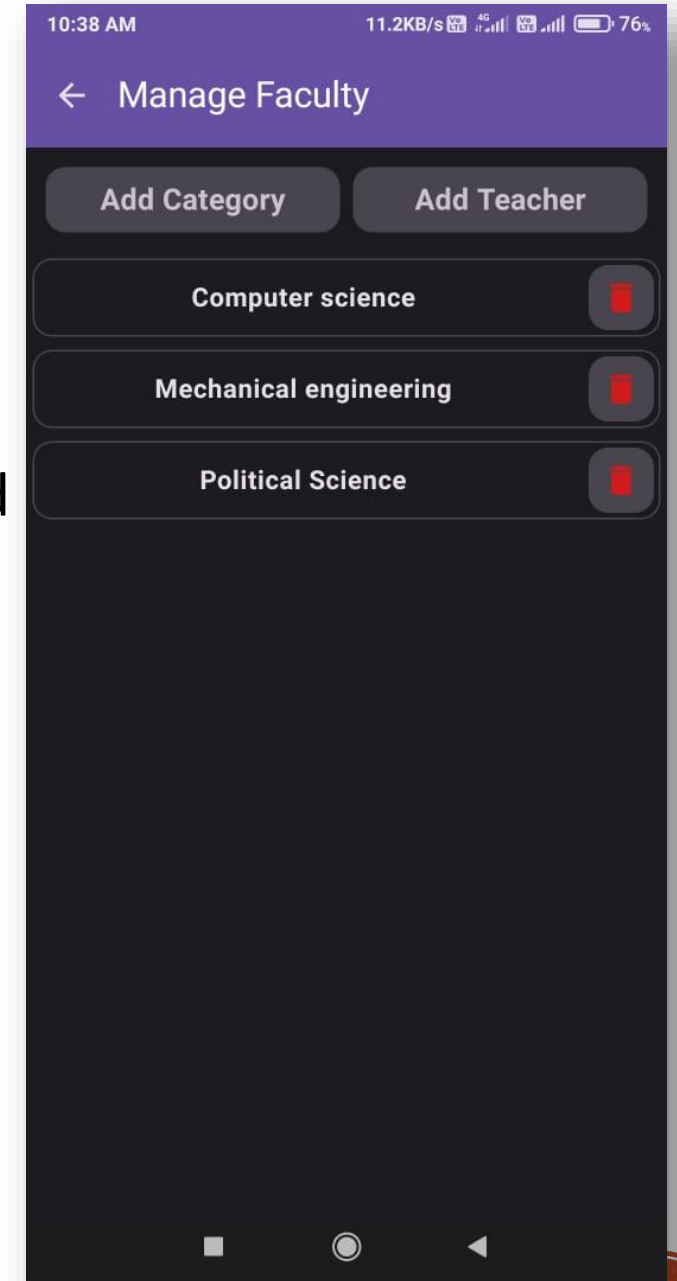
Admins can create a new faculty profile by clicking the **Add Teacher** button.

### 3.Edit Faculty Details:

Admins can select a faculty member from the list and update their information.

### 4.Delete Faculty Profile:

Admins can remove a faculty member from the system.



# FOR ADMIN

## • MANAGE COLLEGE INFO

### Main Features of Manage College Info Screen for Admin:

#### 1. View Current College Information:

Admins can see a summary of the college's current information, including:

#### 2. Edit College Information:

1. Admins can modify any of the displayed college information by clicking on the **Edit** button.

#### 3. Save Changes:

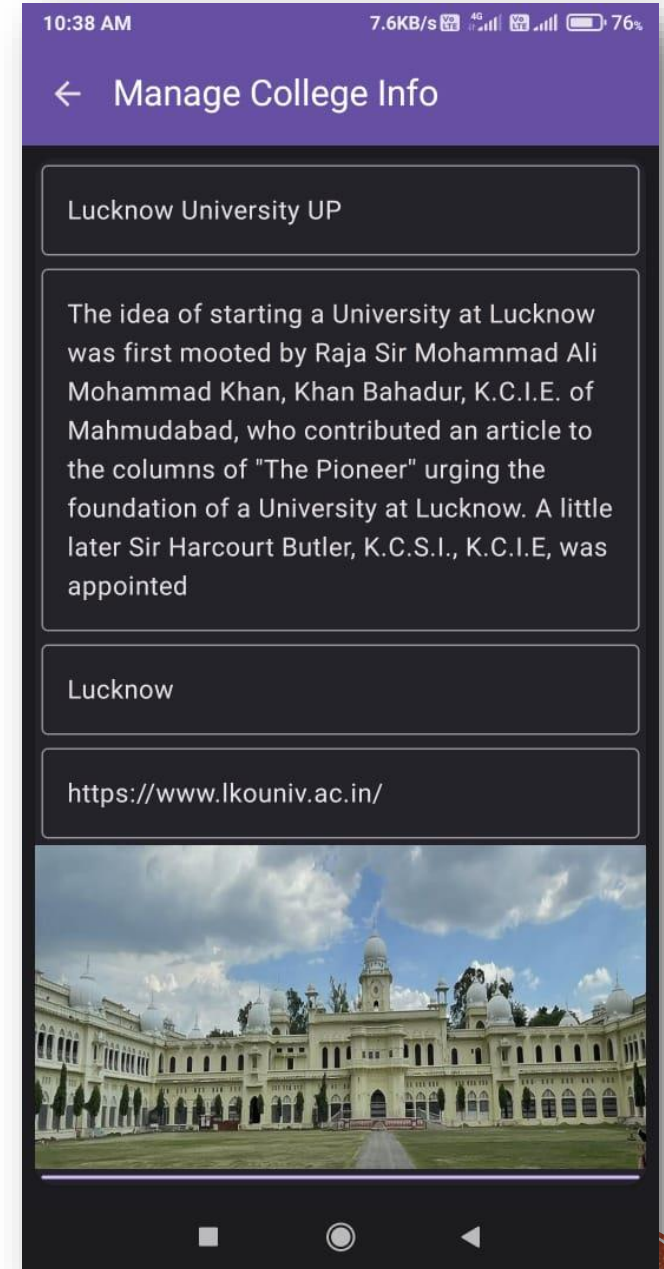
1. Once changes have been made, the admin can click the **Save** button to apply them.
2. The changes are immediately reflected throughout the app where the college info is displayed (e.g., About Us page, Home Screen).

#### 4. Reset to Default (Optional Feature):

1. Admins can reset the college information to default values if needed. This can be useful if incorrect data was entered by mistake.

#### 5. Confirmation Dialog:

1. Before finalizing any updates, a confirmation dialog appears to verify the changes and prevent accidental modification of the college's official information.





# MANAGE NOTICE

# FOR ADMIN

## Main Features of the Simplified Manage Notice Screen for Admin:

### 1.View Existing Notices:

- Each notice includes:
  - Title:** The headline of the notice.
  - Link:** The URL or resource link associated with the notice.

### 2.Add New Notice:

- Admins can click the **Add New Notice** button to create a new notice.

### 3.Edit Existing Notices:

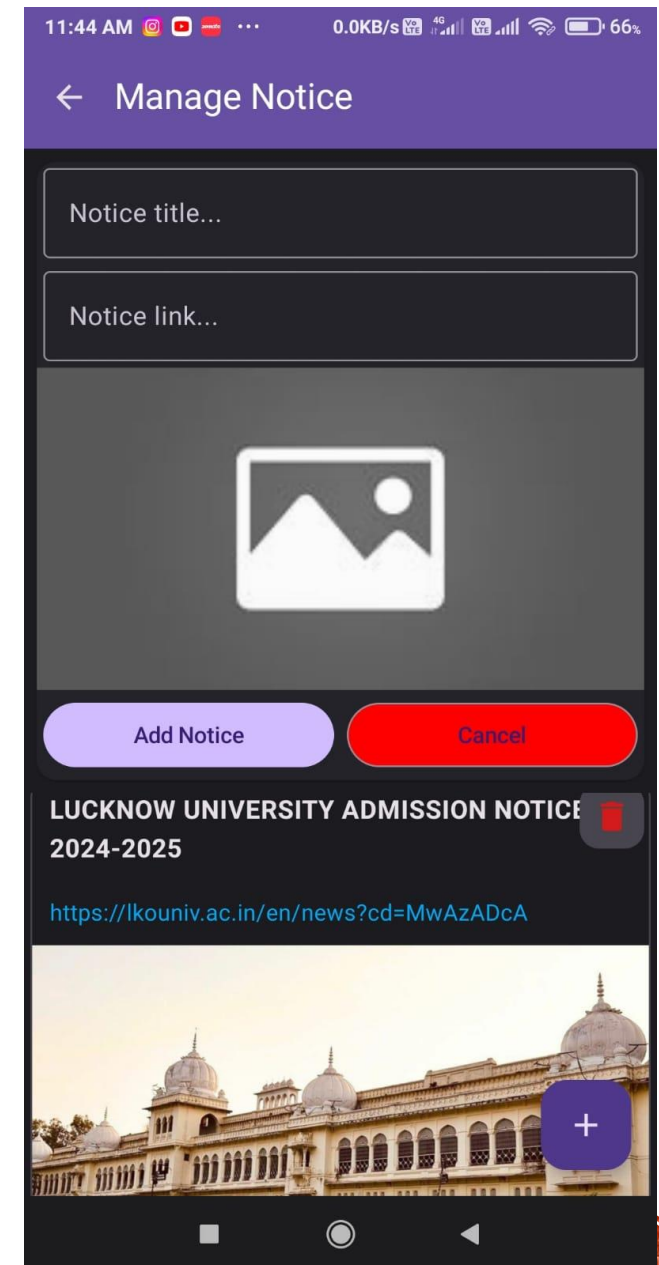
- Admins can select any notice from the list to edit.

### 4.Delete Notice:

- Admins can remove notices that are no longer relevant.
- A confirmation dialog appears before final deletion.

### 5.Minimal Display for Users:

- Users will only see the **Title** of the notice as a clickable link that redirects to the specified URL

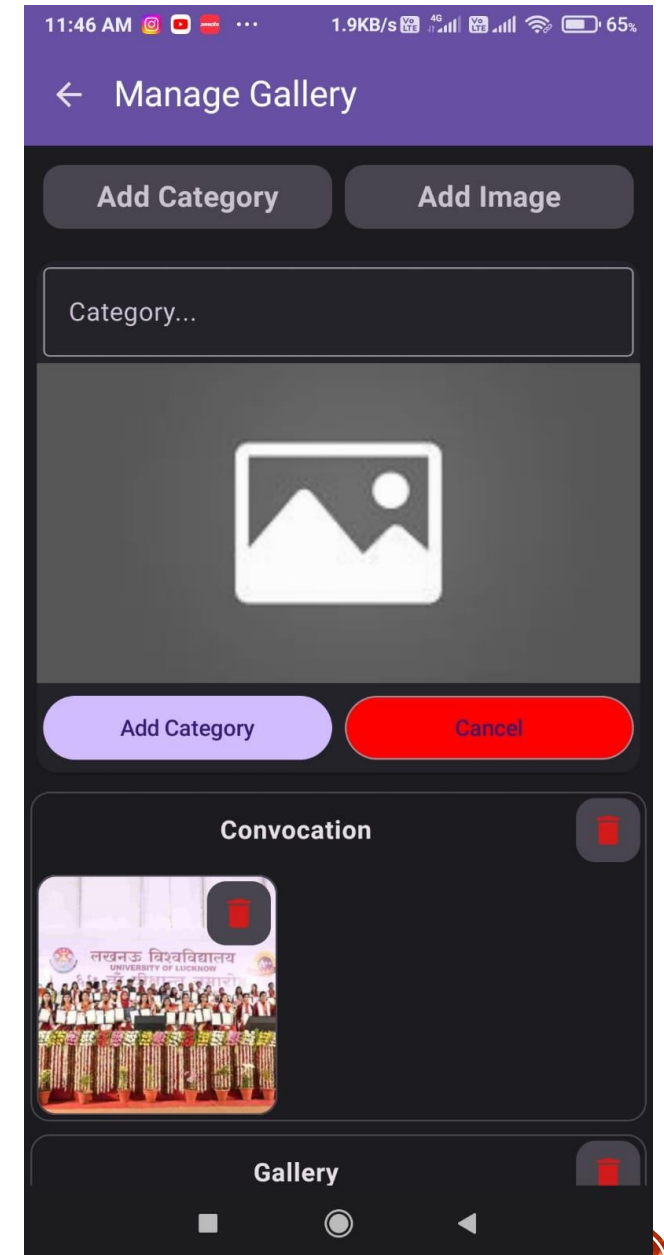


# FOR ADMIN

- MANAGE GALLERY

**Main Features of the Manage Gallery Screen for Admin:**

- 1.View Image Categories:**
- 2.Add New Category:**
- 3.View and Manage Images in a Category:**
- 4.Add Image:**
- 5.Delete Image:**



# FOR USERS

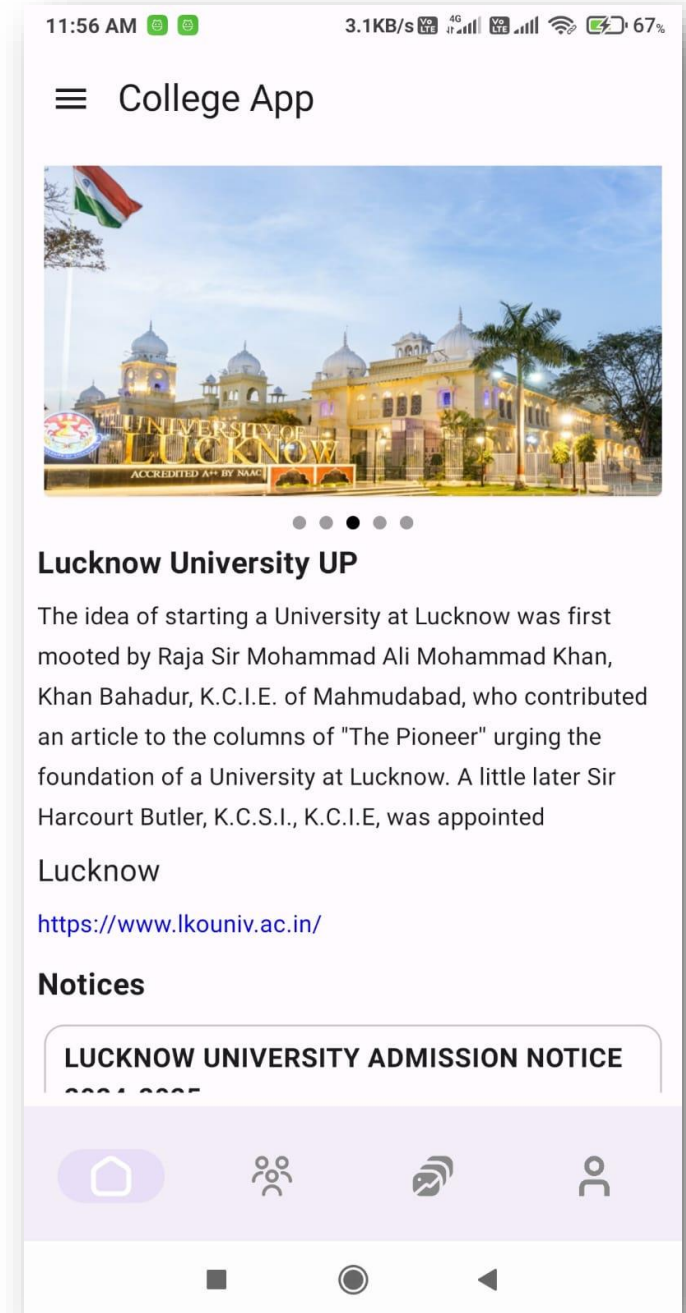
- HOME-SCREEN

## Main Features of the Home Screen:

### 1.Auto-Scrollable Banner:

### 2.College Information:

### 3.Notices Section:





# • FACULTY SCREEN FOR USERS

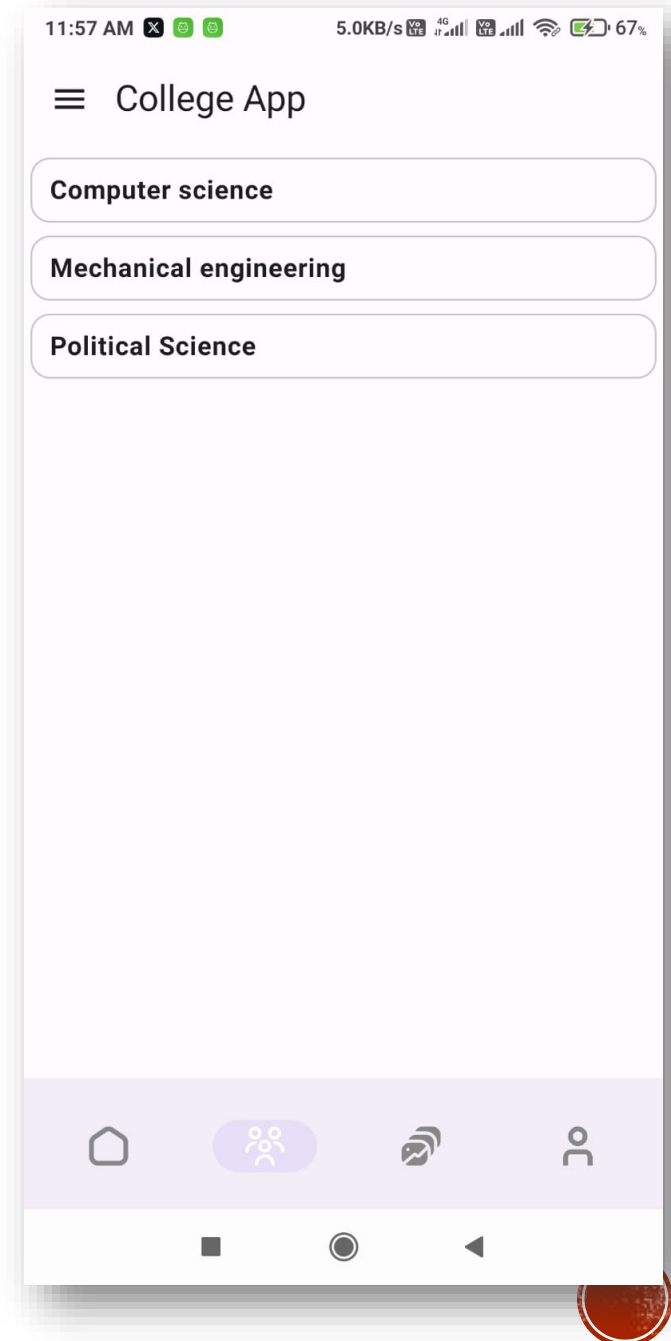
## Main Features of the Faculty Screen:

### 1. Subject Categories:

1. The screen is organized by subject categories or departments (e.g., Mathematics, Physics, Computer Science, etc.).

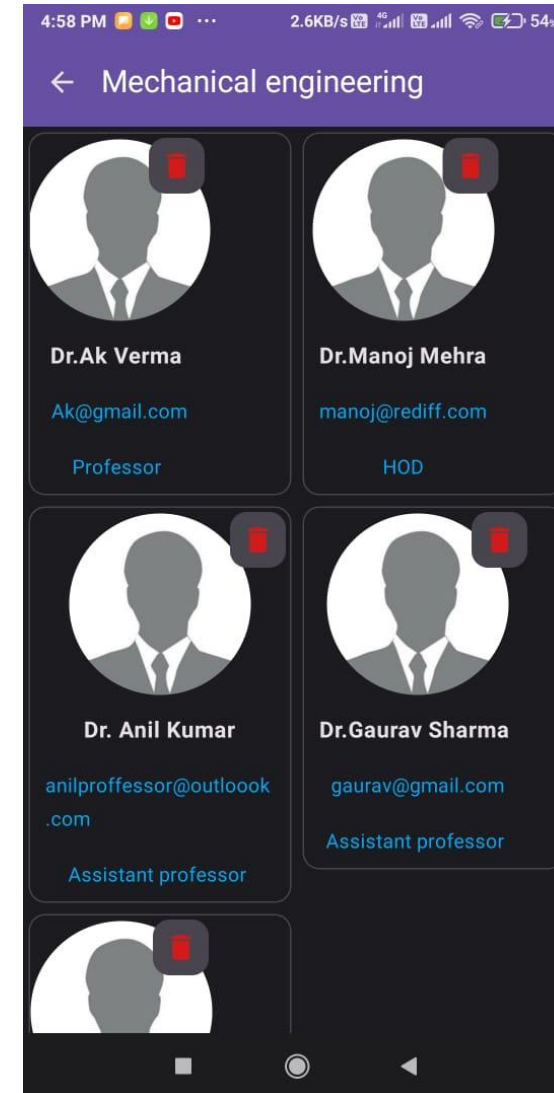
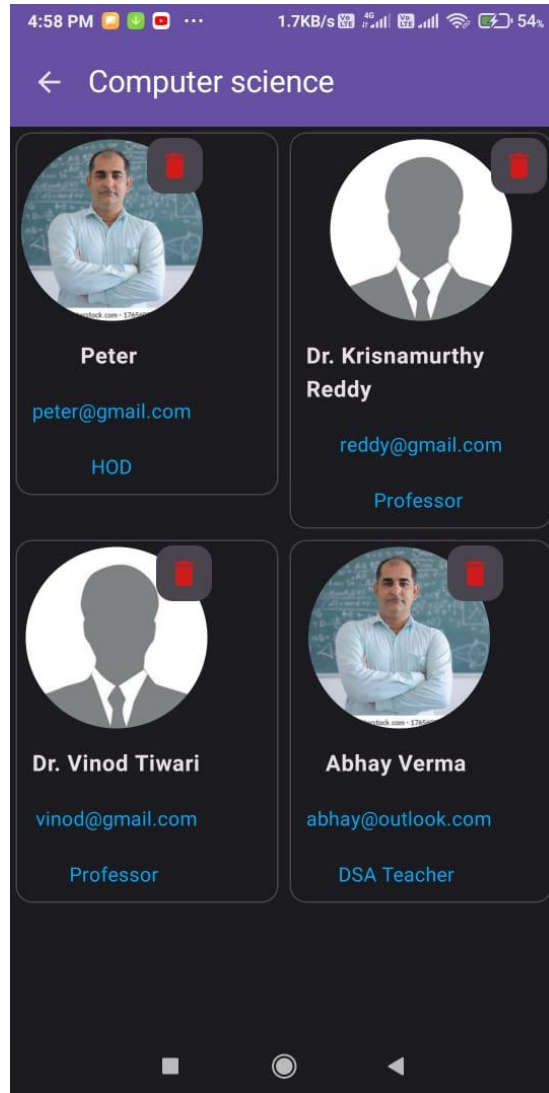
### 2. Professors List:

1. Under each subject category, a list of professors is displayed, showing the professor's name and potentially their title (e.g., Dr., Prof.).



# FOR USERS

- FACULTY SCREEN(TEACHER'S SECTION):**



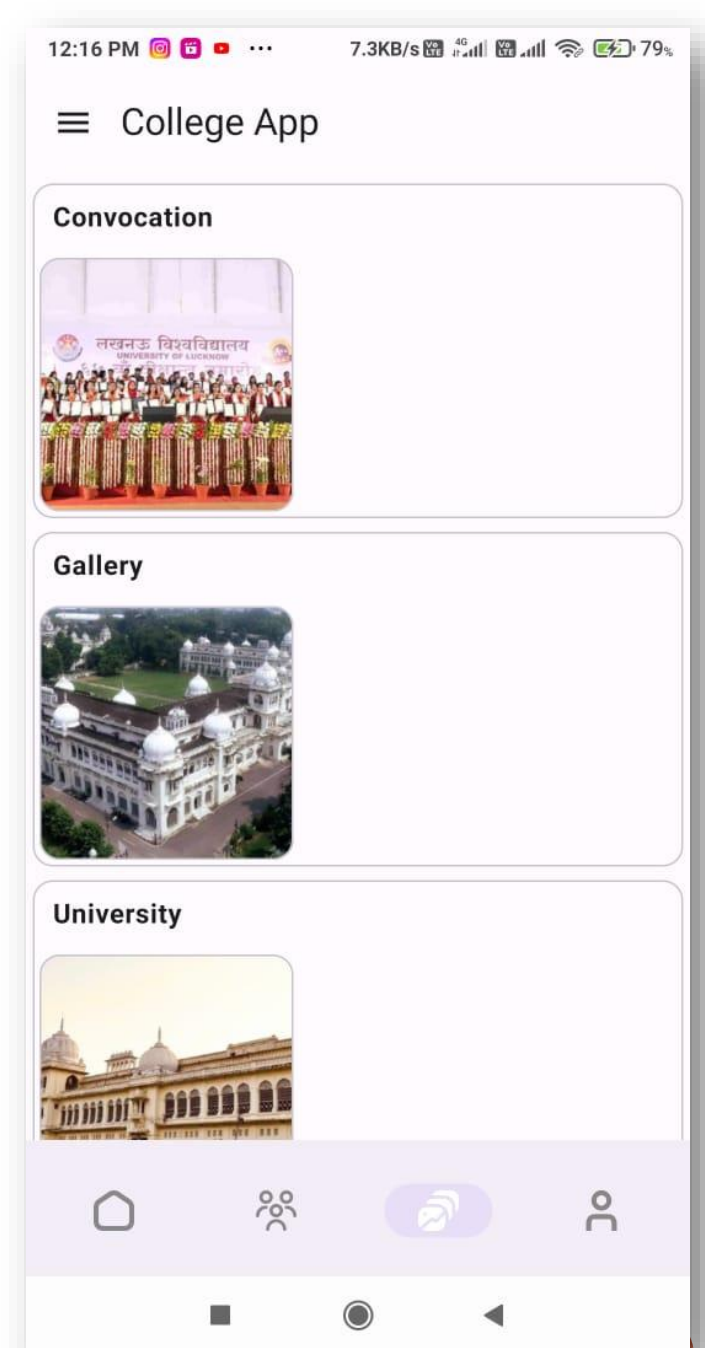
# FOR USERS

## • GALLERY SCREEN

### Main Features of the Gallery Screen:

#### 1. Image List:

1. A vertically scrolling list that shows a series of images from the college gallery.
2. Each image is presented with a thumbnail size, allowing users to quickly view multiple images at once.



# • ABOUT US SCREEN

# FOR USERS

## Main Features of the About Us Screen:

### 1.College Information:

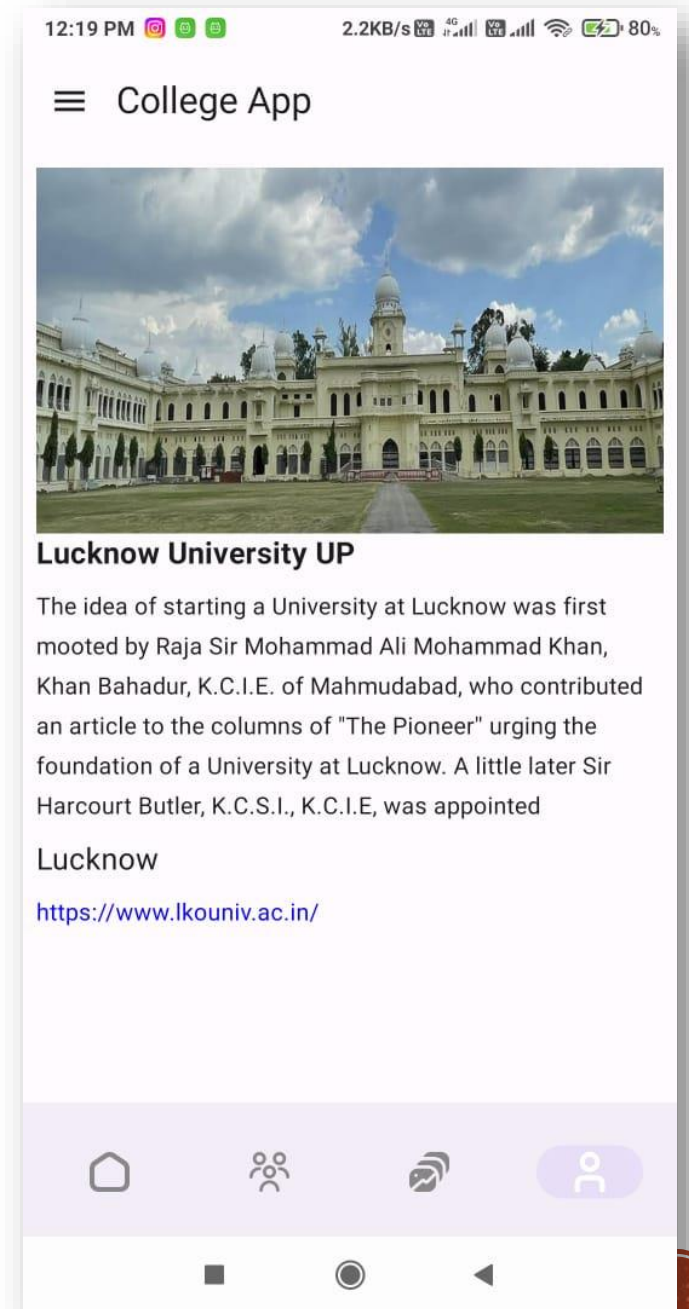
1. A brief overview of the college, including its history, founding date, and milestones.

### 2.Departments and Programs:

1. A list of key departments or programs offered by the college.

### 3.Contact Information:

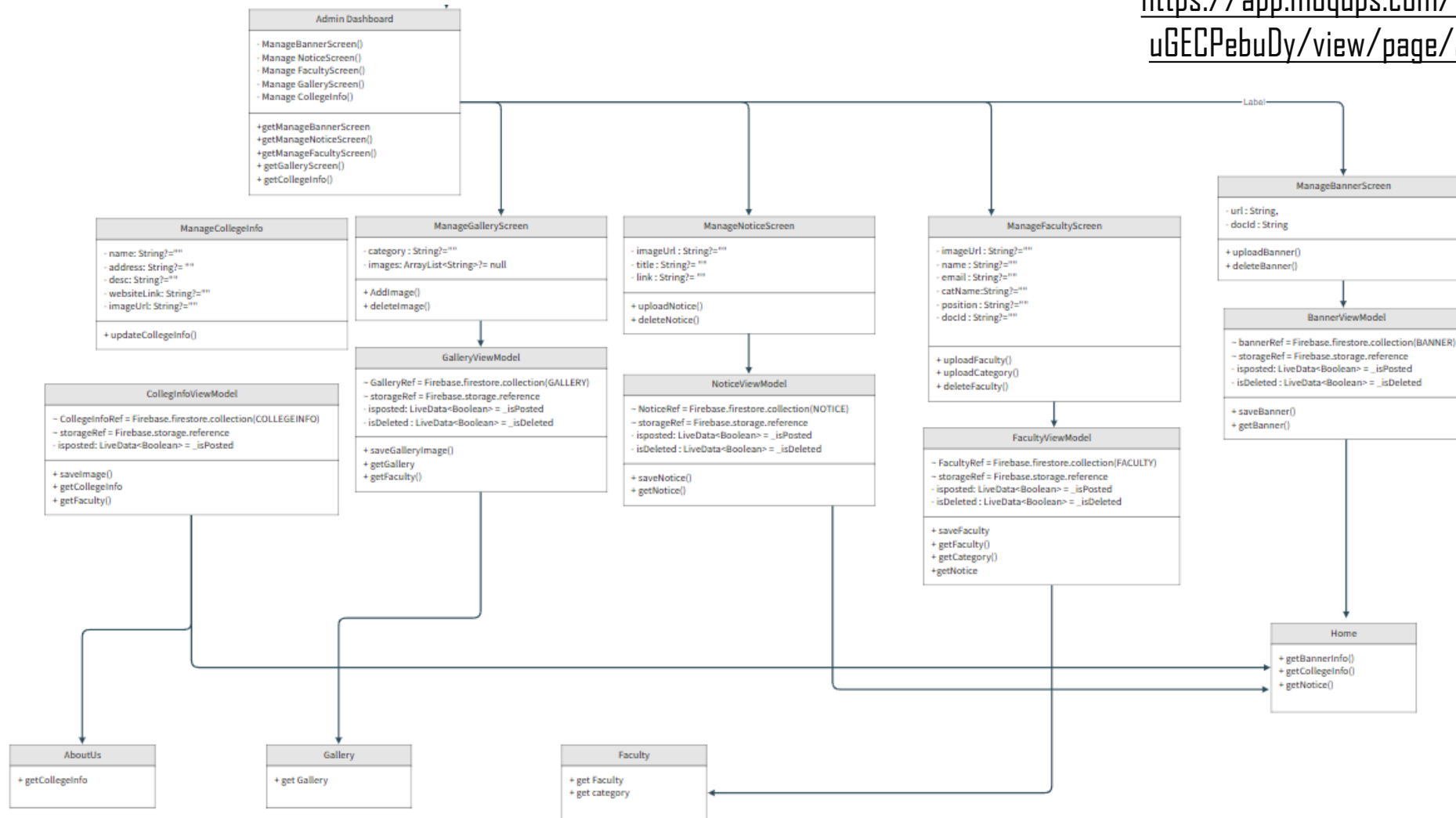
1. Details for reaching out to the college, including phone numbers, email addresses, and social media links.



# CLASS DIAGRAM

Link(Ctrl+Click)

[https://app.moqups.com/YARTaVwRmWNMQAGzDuXVqc\\_uGECPeBuDy/view/page/a8bfb0d3e?ui=0&fit\\_width=1](https://app.moqups.com/YARTaVwRmWNMQAGzDuXVqc_uGECPeBuDy/view/page/a8bfb0d3e?ui=0&fit_width=1)



# CONCLUSION

## Summary: Recap of Key Points

- **Purpose of the App:** The College App is designed to improve communication and management between students, faculty, and administrators by providing tailored features for each role.
- **Main Features:**
  - Role-based dashboards for personalized experiences.
  - Secure authentication for user login and role assignment.
  - Comprehensive course management for students, faculty, and administrators.
  - Announcements and events management for easy communication and planning.
  - Admin tools for managing users, courses, global college operations. and
- **Technologies Used:** Built using Jetpack Compose, Kotlin, Room, and Retrofit, following the MVVM architecture.
- **Target Audience:** The app serves students, faculty, and administrators, each with unique needs to streamline academic and administrative tasks.



# Q&A: Open the Floor for Questions

Now that we've covered the main aspects of the College App, feel free to ask any questions you have about the app's features, functionality, or development process. I'm happy to clarify anything or provide further details.





**THANK**

**YOU**

