

# CampusAid

Smart. Seamless. Student-First.



## Presented by

- Team LazyDevs

## Team Members

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# Problem Statement

Current campus systems lack integration and automation, leading to food wastage from poor demand prediction, inefficient lost-item recovery, and low scholarship awareness. These gaps reduce convenience, increase stress, and affect student well-being.

## CHALLENGES FACED BY STUDENTS



**Missed Opportunities**  
students unaware of scholarships matching their profile.

01



**Inefficient Recovery Process**  
No centralized system to report or track lost items (IDs, wallets, devices)

02



**Food Wastage & Poor Nutrition**  
Unpredictable demand leads to food shortages or excess waste

03



**Missing Out on Campus Events**  
Students miss out on important events due to lack of notifications.

04



**Uncertainty about Faculty**  
Juniors struggle to make informed decisions while choosing courses.

05



## CALLOUT STATS

"1 in 3 students lose valuables each semester with no recovery system."



"35% of campus food wasted daily due to poor demand prediction."



"Only 20% of eligible students apply for scholarships due to complexity"



# PROPOSED SOLUTION

"CampusAid: Ditch the stress. We streamline your campus life—from food to funds.  
So you can focus on what really matters."

## Digital Lost & Found System

- Centralized platform to report and recover lost items on campus.
- Instant Reporting: Snap photo of lost/found items; upload to the application tags.
- Campus-Wide Alerts



## AI-Powered Canteen Management

- Smart Demand Prediction: AI analyzes past trends to prepare the right amount of food, reducing waste.
- Personalized Meal Plans: Suggests balanced meals based on dietary preferences (eg. veg).



## Event Calendar

- Provides comprehensive view of all campus events.
- Filter events by category, organizer, etc.
- One-click registration for society events.



## Automated Scholarship Finder

- Profile-Based Matching: AI recommends the best fits (grades, major, background).
- Deadline Reminders: Never miss an application date with auto-alerts.
- One-Click Applications: Direct links to apply.



## Faculty Ratings

- Students can rate professors based on teaching style, grading fairness, and engagement.
- It helps students make informed course selections with real student feedback.
- Option to post anonymous reviews



# IMPACTS OF CAMPUS AID

## Digital Lost & Found System

- Faster recovery of lost items
- Fosters a culture of mutual responsibility among students
- Reduced administrative overhead

## AI-Powered Canteen Management

- Minimized food waste and cost-efficient meal planning
- Reduced crowd during rush hours especially breaks between classes
- Tailored student meals according to nutrition and preferences

## Event Calendar

- Higher student engagement in campus activities
- Better event organization & attendance tracking
- Streamlined society participation

## Automated Scholarship Finder

- Increased access to financial aid
- Reduced missed opportunities due to deadline notifications
- Time-saving, application process with all scholarship details in one place

## Faculty Ratings

- Transparent academic experience
- Informed course & professor selection
- Constructive feedback loop for faculty improvement



# WORKING AND IMPLEMENTATION



## Login Page and Authorisation

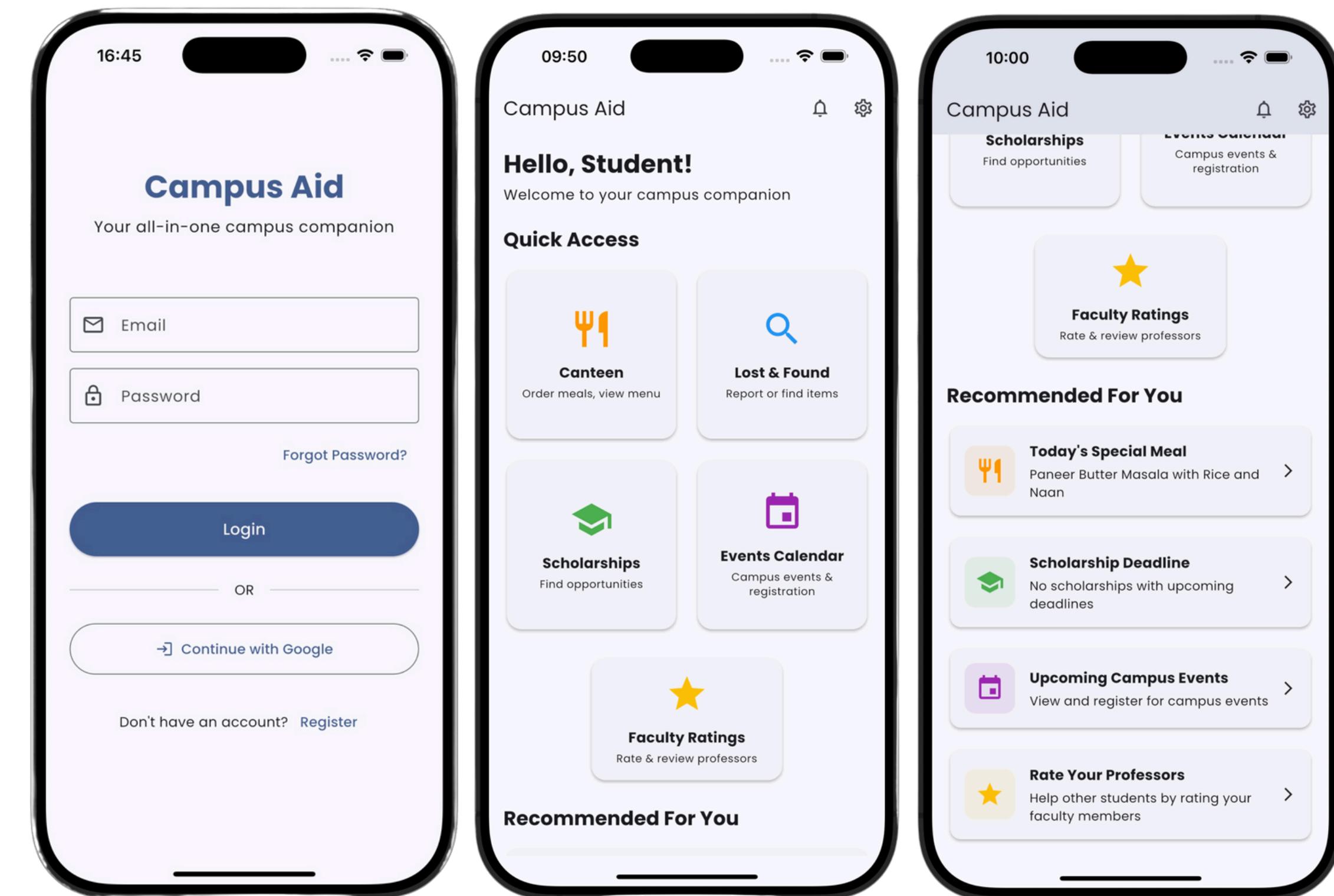
- Designed specifically for students to securely access campus services.
- Supports email/password login and Google sign-in for quick access.



## Home Screen

- Quick Access to core modules:
  - Canteen – Order meals, view menu.
  - Lost & Found – Report or find items.
  - Scholarships – Explore funding opportunities.
  - Event Calendar – Explore Campus events.
  - Faculty Rating – Rate your professors.
- **Recommended For You section**
  - Dynamic updates (e.g., Today's Special Meal).
- Notifications for Scholarship Deadlines, Lost Item matched, Meal Booking confirmed etc.

## USER INTERFACE



# WORKING AND IMPLEMENTATION



## Canteen Bookings

- View Daily Menu with dish descriptions and pricing.
  - Option to filter for Veg Only meals.
- Book meals in advance (breakfast, lunch, dinner) with a single tap.
- Track bookings in real-time
- **Meal Feedback System:**
  - Rate meals using emojis for quick input.
  - Optional comments section for detailed feedback.
- Personalised meal recommendations using AI

USER INTERFACE

The screenshots demonstrate the app's user interface across three main sections: Canteen Bookings, Your Meal Bookings, and Rate Your Meals.

- Canteen Bookings Screen (Left):** Shows the main menu with "Menu" selected. It includes a "Select Day" dropdown set to "Today" and a "Veg Only" filter button. Below this is an "AI-Powered Recommendations" section with a message about meal suggestions based on past preferences. The "Menu for Today" section lists "Vegetable Biryani" with a price of ₹120, a "Nutrition" button, and a "Pre-Book" button.
- Your Meal Bookings Screen (Middle):** Shows the "My Bookings" tab selected. It displays a "Dinner" booking for "Today, 8:00 PM" with a status of "Pending". The booking includes items: Noodles, Manchurian, and Soup. A "Cancel" button is available. Below it is a "Breakfast" booking for "Tomorrow, 8:00 AM" with a status of "Confirmed". This booking includes items: Poha, Tea, and Boiled Eggs. A "Cancel" button is also present.
- Rate Your Meals Screen (Right):** Shows the "Feedback" tab selected. It prompts the user to "Rate Lunch" for "Today, 12:30 PM". The booking includes items: Rice, Dal, Paneer Curry, Salad. Below this is a section titled "How was your meal?" with a horizontal slider and five emoji icons ranging from sad to happy. A text input field says "The Meal was Good". A "Submit Feedback" button is at the bottom.

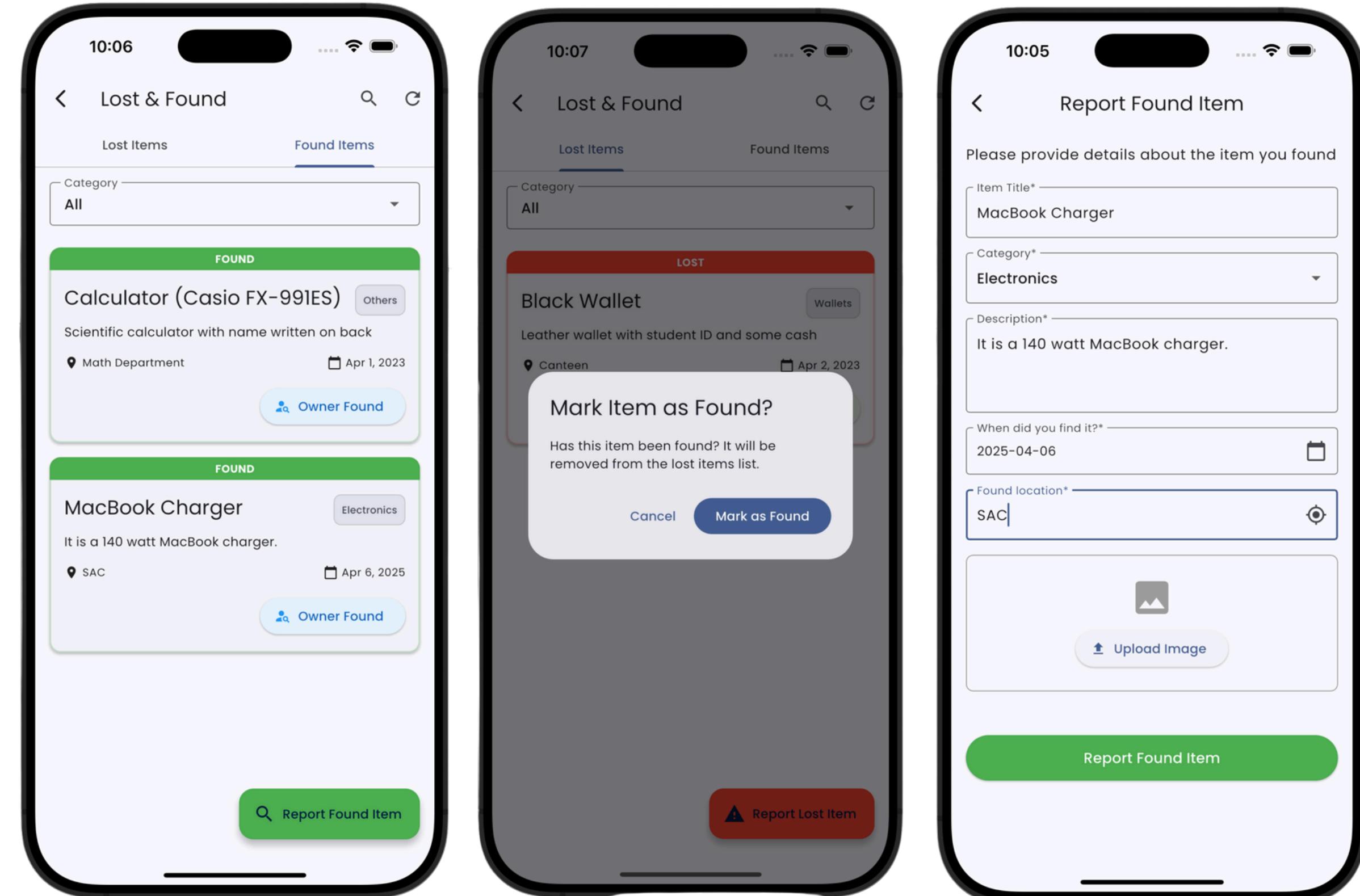
# WORKING AND IMPLEMENTATION



## Lost & Found

- Centralized platform to report and recover lost items on campus.
- Students upload photos of lost/found items with location tags
- Filter items by category
- Each item listing includes:
  - Description, date, and location.
  - Status tag (e.g., “Found”).
  - Quick access to Details and Contact options.
- Easy-to-use “Report Found Item” button for students to contribute.
- Students earn points for returning items, redeemable for campus perks.

USER INTERFACE



# WORKING AND IMPLEMENTATION



## Scholarship Finder

- Filter opportunities by type (merit-based, research, etc.)
- Displays match percentage based on user profile
- Track submissions and statuses under "My Applications"
- View Scholarship details like:
  - Eligibility criteria and requirements
  - Deadline and sponsoring organization
  - Benefits offered and step-by-step application process
- Deadline Alerts to never miss an application window.
- One-Click Apply – Direct links to applications

USER INTERFACE

The screenshots show the app's user interface across three screens:

- Scholarships Screen (20:42):** Shows a 'Discover' tab and a 'My Applications' tab. A yellow callout box prompts the user to 'Complete Your Profile' to see best matches, with a 'Complete' button. Below is a 'Filter by Category' section with buttons for All, Merit, Need-based, and Research. Two scholarship cards are listed: 'National Merit Scholarship' (92% Match) and 'Financial Aid Scholarship' (78% Match).
- My Applications Screen (20:43):** Shows a 'Discover' tab and a 'My Applications' tab. It displays a 'Financial Aid Scholarship' card (Under Review, Category: Need-based, Amount: ₹30,000, Deadline: Expired). Below is an 'Application Progress' section with tabs for Submitted, Under Review (selected), and Approved, showing a 'View Details' button.
- Scholarship Details Screen (20:45):** Shows a 'Discover' tab and a 'My Applications' tab. It displays detailed information for the 'National Merit Scholarship' (Merit, ₹50,000, 92% Match). It includes sections for 'Description', 'Deadline' (2023-05-30), 'Eligibility' (CGPA 8.5 or above, any discipline), 'Sponsored By' (Ministry of Education), and 'Requirements'. A large 'Apply Now' button is at the bottom.

# WORKING AND IMPLEMENTATION



## Event Calendar

- Calendar View:** Easily explore events by date.
- Event Details:** Includes time, venue, tags, and capacity.
- One-Tap Registration:** Register or cancel with status updates.
- Upcoming Events:** Quick access to upcoming activities.
- Access event notifications personalized to user's profile.

USER INTERFACE

The screenshots show the mobile application interface for the Event Calendar:

- Screenshot 1: Campus Events (April 2025)**  
Shows a monthly calendar for April 2025. The 9th is highlighted in blue. Below the calendar, it says "Events on April 9, 2025" and lists "1 events". A card for "Sports Tournament" at 8:00 AM is shown.
- Screenshot 2: Event Details**  
Shows details for the "Sports Tournament" on April 9, 2025. It includes a photo of a runner, the date (Apr 9, 2025), time (8:00 AM - 5:00 PM), location (Sports Complex), organizer (Sports Department), and tags (Sports, Competition, Outdoor). Capacity is listed as 543/800. A message states "You are registered for this event" with a green checkmark, and a "Cancel Registration" button.
- Screenshot 3: Upcoming Events**  
Shows a list of upcoming events:
  - 9:00 AM Annual Tech Fest
  - 8:00 AM Sports Tournament

# WORKING AND IMPLEMENTATION



## Faculty Ratings

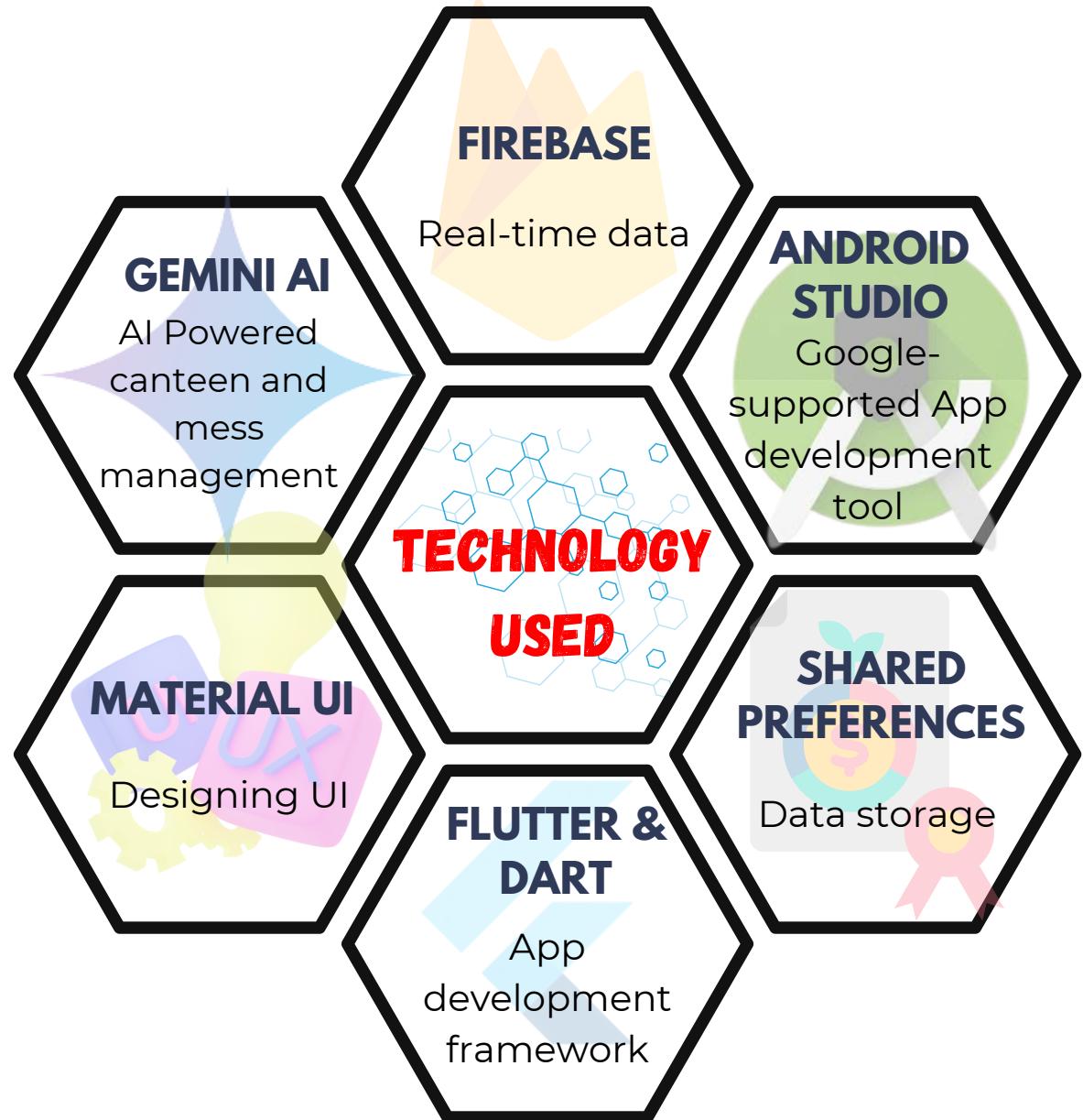
- Search & Browse Faculty: Find faculty by name or department.
- Detailed Profiles: View specialization, contact info, and average ratings.
- Category-Based Ratings: Rate teaching quality, grading fairness, and engagement.
- Student Reviews: Submit and read anonymous, semester-specific feedback.

USER INTERFACE

The screenshots demonstrate the user interface for the Faculty Ratings app across three screens:

- Faculty Ratings Screen (10:21):** Shows a search bar and a list of 5 faculties found. Each faculty entry includes a profile picture, name, title, average rating (e.g., 4.7), and count (e.g., 28 reviews).
  - Dr. Emily Rodriguez:** Assistant Professor, Mathematics. Average rating 4.7 (28). Specialization: Differential Equations, Linear Algebra. Bio: Joined 5 years ago after PhD at MIT. Email: emily.rodriguez@university.edu.
  - Dr. Sarah Johnson:** Associate Professor, Computer Science. Average rating 4.5 (45). Specialization: Artificial Intelligence, Machine Learning.
  - Dr. Lisa Patel:** Assistant Professor, Computer Science. Average rating 4.3 (19). Specialization: Computer Networks, Cybersecurity.
  - Prof. Michael Chen:** Professor, Electrical Engineering. Average rating 4.0 (38). Specialization: Digital Signal Processing, Communication Systems.
  - Prof. David Wilson:** Professor, Physics.
- Faculty Profile Screen (10:22):** Displays detailed information for Dr. Emily Rodriguez, including her specialization (Differential Equations, Linear Algebra), bio (joined 5 years ago after PhD at MIT), and contact information (email: emily.rodriguez@university.edu). It also shows her average rating of 4.7 from 28 reviews. Below this, there is a section for "Ratings (28 reviews)" showing horizontal bar charts for Teaching Quality (4.7), Grading Fairness (4.5), and Engagement (4.9), each with a 5-star rating scale.
- Write a Review Screen (10:24):** Allows users to submit a review for a specific course and semester. Fields include Course Code (MATH101) and Semester (Summer 2023). The "Ratings" section shows the same 5-star scales for Teaching Quality, Grading Fairness, and Engagement. A "Your Review" text area contains the placeholder text: "She is a very good teacher. She explains the most difficult concepts in an easy way which covers the basics too." A "Post Anonymously" toggle switch is present at the bottom right.

# TECH STACK AND TECHNOLOGIES USED



## Firebase

Backend solution for real-time data storage, authentication, and cloud functions.



## Android Studio

Robust development environment for building Android apps using Java, Kotlin, and C++ with built-in emulator and UI tools.



## Shared Preferences

For saving user preferences and app settings locally, for personalized experiences such as saving nutrition preferences, to ensure efficiency.



## Flutter & Dart

Framework and language used for building a cross-platform mobile application with a seamless user experience.



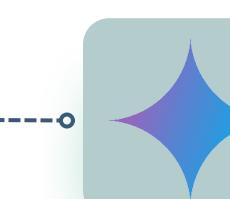
## Material UI

Material UI ensures a modern, intuitive, and responsive design for seamless navigation across devices.



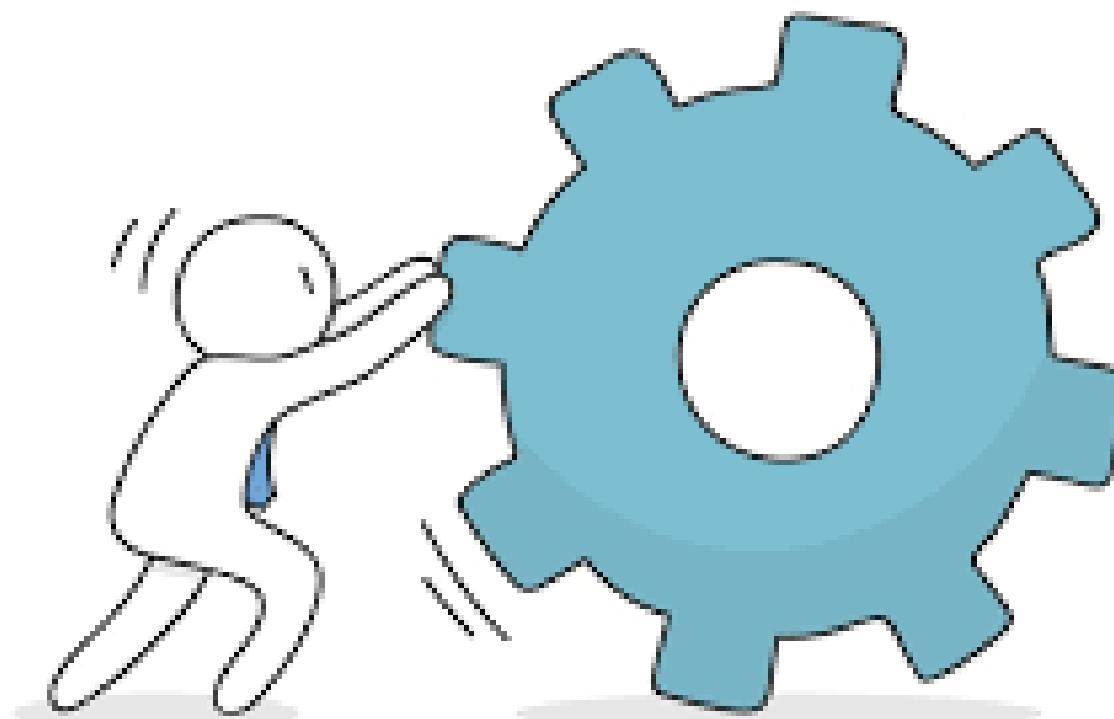
## Gemini AI

AI Model to give personalized meal recommendations, AI powered nutrition analysis, match scholarships to profile, etc.



# EXPECTED CHALLENGES & SOLUTIONS

## *Overcoming Roadblocks*



### User Adoption & Behavioral Change

- Student/staff reluctance to adopt new systems
- Preference for traditional methods
- Gamification: Reward points for app engagement
- Peer Ambassadors: Student influencers demo benefits
- Quick Wins: Highlight early successes (e.g., "500+ items reunited in Phase 1")

### Data Security & Privacy

- Sensitive data handling (scholarship info, location tracking)
- Compliance with regulations (GDPR, FERPA)
- End-to-End Encryption: All user data protected
- Transparent Controls: Let users choose shared data levels
- Annual Audits: Independent security verification

### System Integration

- Compatibility with existing campus platforms (student portals, ID systems)
- API-First Design: Seamless connectivity
- IT Partnerships: Collaborate with university tech teams
- Modular Rollout: Prioritize high-impact integrations

# FUTURE UPDATES



01

## Cloud Storage

To securely store user data, event details, faculty reviews, and shared resources, enabling real-time access and seamless synchronization across devices.

02

## Custom AI Model

Replacing Gemini AI with in-house models for personalized meal suggestions, nutrition analysis, lost & found matching, and scholarship recommendations based on user profiles.

03

## Rewards-Based Lost & Found

Introduce a points or badge system to incentivize students for reporting or returning lost items, promoting active participation and community responsibility.

# THANK YOU!

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