



**Submitted to**

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**Subject:** Mobile Application Development

# Event Manager App

## 1. Introduction

The Event Manager app is designed to efficiently manage events, allowing users to view and register for upcoming events, while providing admins with tools to add, update, and delete events. Admins can also view the number of registrations for each event. The app includes notifications for new events and reminders for registered events. The system enhances user engagement by keeping them updated with upcoming events and providing a streamlined registration process.

## 2. Features and Functionalities

### ◆ User Signup Process

- New users can sign up by entering their essential details: name, email address, and password.
- Once these details are filled in, the user creates a password, which they'll use for future logins.
- After submitting the information, the data is securely stored in the app's database, and the user can proceed to log in.

### ◆ User Login Functionality

- Existing users can log in by entering their registered email and password.
- Upon successful login, the app verifies the credentials with the stored data. Authenticated users gain access to view upcoming events and register for events.
- If credentials do not match, the user receives an error message and can choose to reset their password if necessary.

### ◆ Admin Signup and Login Process

- Admins have a similar signup and login process with a separate flow. During signup, admins provide their credentials, and upon successful registration, they are flagged as admin users in the database.
- When logging in, the app recognizes their account type and grants access to admin-specific features for event management. Only authorized admins can add, update, or delete events.

### ◆ Event Registration for Users

- Once logged in, users can view a list of upcoming events on the home page.
- Users interested in attending an event can click on it to open the registration form. The form requires the following information:
  - Name, SAP ID, Phone Number, Year, School, and Email ID.
- After submitting the details, the registration is confirmed, and the user receives a confirmation message.
- Registered events are displayed on a "My Registrations" page for the user.

### ◆ Admin-Specific Functionality

- Admins can add, update, or delete events, making it easy to manage event details.
- Each event page displays the total number of registered users for that event.
- Admins can view registered users' details, helping them manage event attendance and prepare accordingly.
- Admins can also add additional admins by entering their details, enabling multiple people to manage events.

### ◆ Notifications and Reminders

- Users receive a notification whenever a new event is added by an admin. This keeps users informed about the latest events.

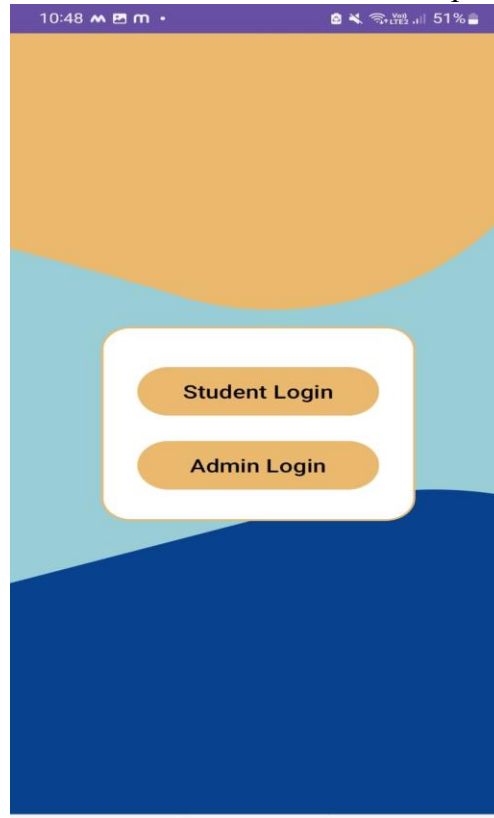
- For registered events, the app sends a reminder notification one hour before the event starts, ensuring users are well-prepared.

### 3. Pages/Fragments

#### ◆ Welcome Page

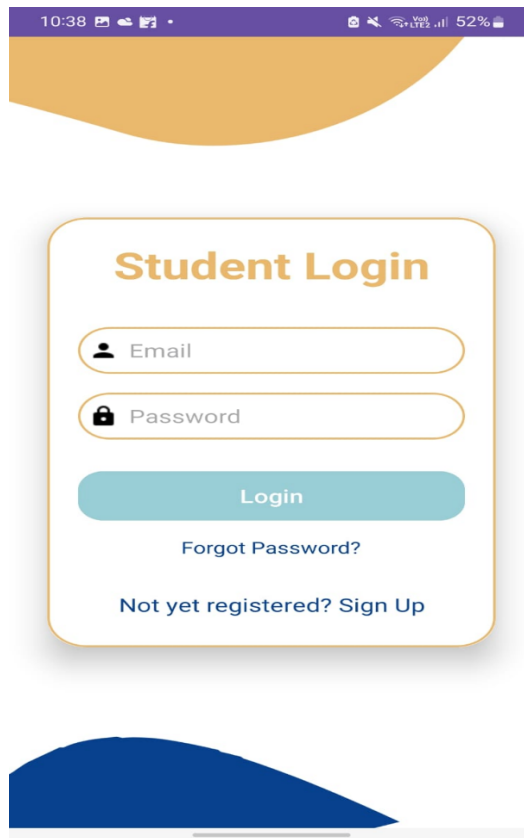
The welcome page serves as the initial screen where users can choose between two options:

- **Student Login:** This button navigates users to the student login page, allowing students to log in to the app and access event-related functionalities such as viewing and registering for events.
- **Admin Login:** This button directs users to the admin login page, where admins can sign in to manage events, view registrations, and utilize other admin-specific features.



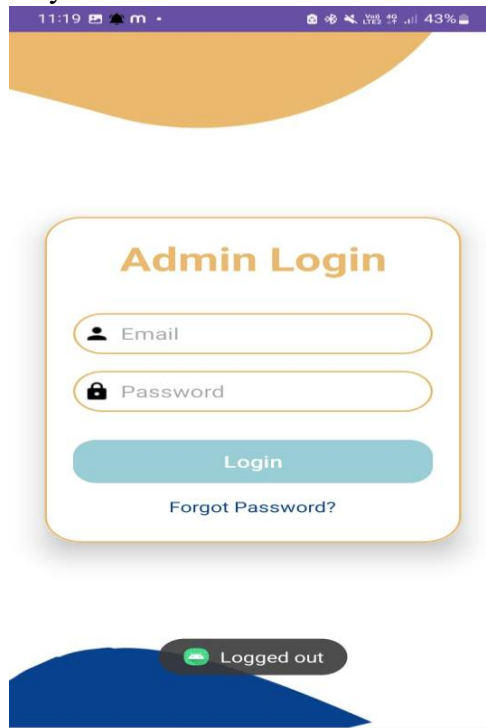
#### ◆ Student Login Page

- A dedicated page for students to log in.
- The student login page consists of two fields:
  - **Email ID:** The registered email address of the student.
  - **Password:** The password set during registration.
- After entering the credentials, users can login to view the list of events, register for events, and see their event registrations. If the student does not have an account, there will be an option to sign up.



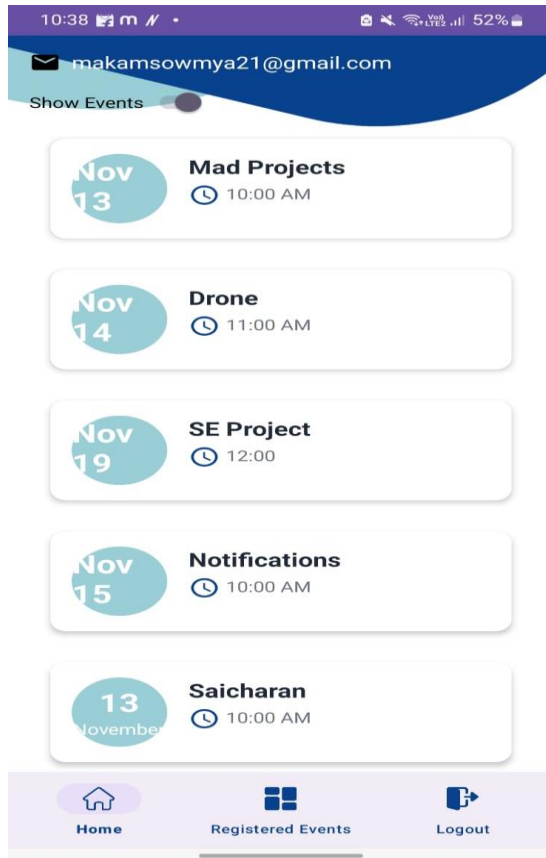
#### ◆ Admin Login Page

- A dedicated page for admins to log in.
- The admin login page also consists of two fields:
  - **Email ID:** The registered email address of the admin.
  - **Password:** The password set during the admin's registration process.
- After successful login, admins are granted access to manage events, view registered users, and add or remove events as necessary.

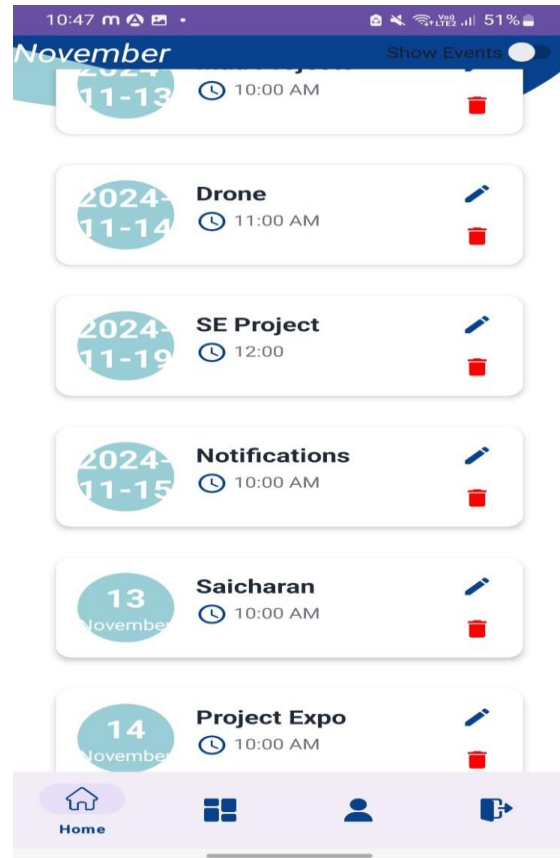


### ◆ Home Page

- Displays a list of upcoming events with essential details such as event name, date, and time. Users can view more details or register for an event directly from this page.
- Admin Page will have the option of edit and delete in this home page when the admin is logged in.



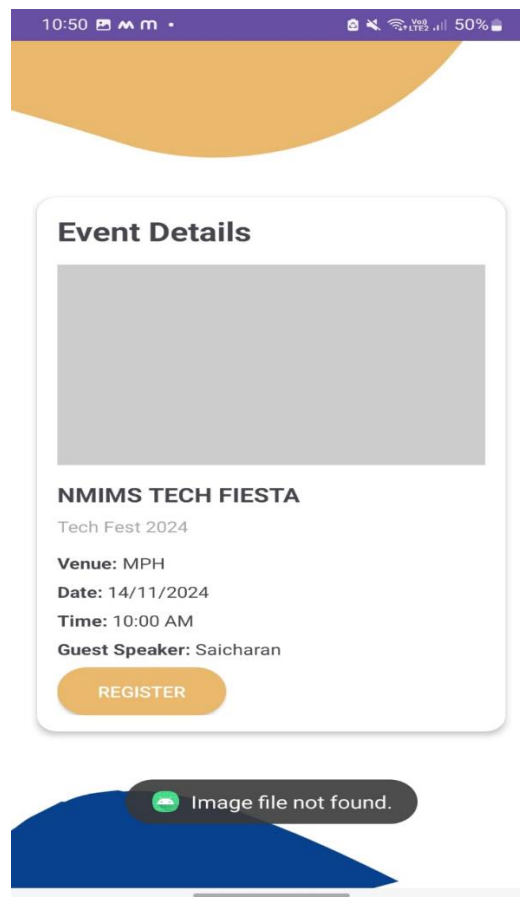
Student home page



Admin home page

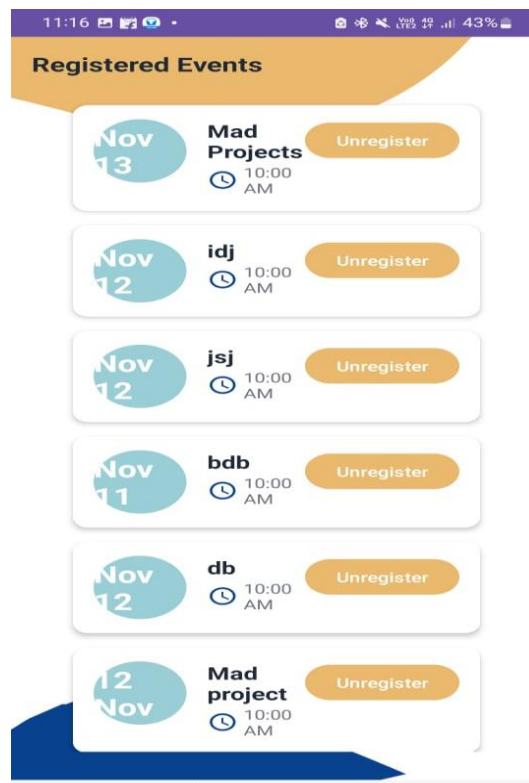
### ◆ Event Details and Registration Page

- Clicking on an event opens a detailed page with information about the event.
- Users can fill out a registration form with fields such as Name, SAP ID, Phone Number, Year, School, and Email ID to confirm their participation



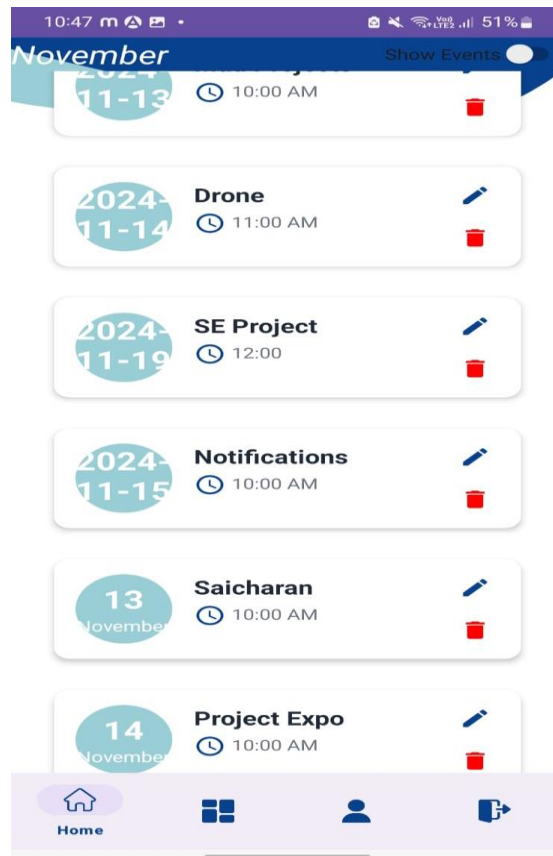
#### ◆ My Registrations Page

- Displays a list of events for which the user has registered. Each entry shows the event's details, allowing users to review their commitments.



### ◆ Admin Dashboard

- After login, admins access the dashboard, which provides tools to manage events and view registration statistics.
- Admins can add, update, and delete events, and also see the number of registrations for each event.



### ◆ Fill Event Details

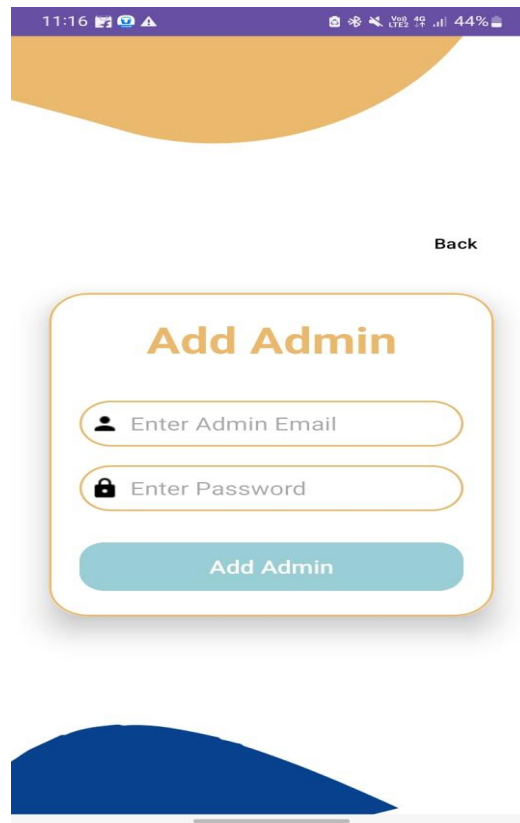
- This page allows admins to create new events by filling in comprehensive event information
- The page contains the following input fields:
  - Event Title: Name or title of the event
  - Event Description: Detailed description of what the event entails
  - Event Date: Date when the event will take place
  - Event Time: Start time of the event
  - Event Venue: Location where the event will be held
  - Guest Speaker: Name and details of any guest speakers
  - Registration Link: Optional external registration link
  - Image Selection: Button to upload an event banner or promotional image
- A "Back" button in the top-right corner allows navigation to the previous screen

A mobile application interface for filling event details. The screen has a purple header bar with a 'Back' button in the top right corner. Below the header is a white rounded rectangle containing the title 'Fill Event Details' in orange. The form includes several text input fields: 'Event Title', 'Event Description', 'Event Date', 'Event Time', 'Event Venue', and 'Guest Speaker'. At the bottom of the form is a purple button labeled 'Select Image' and a text label 'Registration Link'. The top of the screen shows a status bar with the time '10:49', signal strength, and battery level '50%'.

#### ◆ Add Admin Page

- This page enables existing admins to add new administrators to the system
- The page contains a simple form with two essential fields:
  - Enter Admin Email: Field for the new admin's email address
  - Enter Password: Field for setting the initial password
- Features include:
  - Clear form validation for both email and password fields
  - A dedicated "Add Admin" button for submission
  - "Back" navigation option in the top-right corner
- The page employs security measures to ensure only authorized admins can access this functionality
- New admin accounts created through this page automatically receive admin privileges in the system





#### 4. Database Design

##### ◆ User Data Storage

- User data is stored with a unique key assigned to each user upon signup. This key ensures each user profile is uniquely identifiable.
- User Profile Fields:
  - **Email:** User's email address for login.
  - **Password:** Encrypted password for secure access.

##### ◆ Event Data Storage

- Events added by admins are stored in the database, with each event having a unique identifier. Event Fields include:
  - **Event ID:** Unique identifier for each event.
  - **Event Name:** Title of the event.
  - **Description:** Details about the event, including date, time, and venue.
  - **Date and Time:** Scheduled time for the event.
  - **Registration Count:** The number of users who have registered for the event.
  - **Guest Speaker:** The Guest Speaker attending for that event

##### ◆ Registration Data Storage

- Each registration entry is stored in the database, linked to both the event and the user. Registration Fields include:
  - **Registration ID:** Unique identifier for each registration.
  - **Event ID:** References the event for which the registration was made.
  - **User ID:** References the user who registered for the event.
  - **Name:** The name entered by the user during registration.
  - **SAP ID:** Unique student ID for identification.
  - **Phone Number:** Contact number of the registrant.
  - **Year:** Academic year of the registrant.

- **School:** School the registrant belongs to.
- **Email ID:** Email address entered by the user for registration confirmation.

#### ◆ Data Security

- **Data Validation:** Inputs are validated to ensure all required fields are correctly filled and adhere to the required format.
- **Authentication Checks:** Both users and admins must log in to access their data. This ensures data access is restricted to authorized individuals.
- **Encrypted Storage:** Sensitive data, such as user credentials, is stored securely using encryption to protect against unauthorized access.

### 5. User and Admin Flow

#### User Flow:

- **Sign Up/Login:** Users sign up by entering their name, email, and password, or log in with existing credentials.
- **View Events:** After login, users can browse upcoming events on the home page.
- **Register for Event:** Clicking on an event allows users to enter their details and confirm their registration.
- **My Registrations:** Users can view a list of events they've registered for on the My Registrations page, providing easy access to their registered events.

#### Admin Flow:

- **Sign Up/Login:** Admins sign up or log in with their credentials to access the admin dashboard.
- **Manage Events:** Admins can add new events, update event details, or delete events as needed.
- **View Registrations:** The dashboard provides a summary of registrations for each event, helping admins keep track of attendees.
- **Add Additional Admins:** Existing admins can add other admins, enabling collaborative management of events.

### 6. Technology Stack

- **Android SDK:** Used for app development.
- **Java/Kotlin:** Programming language for Android app functionality.
- **Firebase** (or other backend database): For storing user, event, and registration data.
- Additional libraries for UI, navigation, and data handling may be included.

### 7. Conclusion

- The Event Manager app streamlines the process of managing events and registrations, providing users with an easy way to stay informed about upcoming events and participate in them. The admin features facilitate efficient event management, allowing for updates and data tracking that improve operational control and user engagement.