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CS-360 Project 1

The Event Tracking App is designed to help users organize and track their upcoming events efficiently. The application's core components and functionalities are listed below:

Database:
- Event Details Table: To store information about events like name, date, time, and description.
- User Credentials Table: To manage user logins, including their usernames and passwords.

Login Screen:
- Logging in and creating a new account for first time users.

Event Display Screen:
- A grid layout showing all upcoming events, offering a clear and organized view.

Event Management Mechanisms:
- Add/Remove Events: Users can easily add new events and remove existing ones from the database.
- Event Entry: Enter the time and details of specific events.
- Notifications: System to alert users on the day of scheduled events.

Functional Necessities
- User Authentication: Secure login system to protect user information.
- Data Integrity: Reliable database management to prevent data loss.
- User-Friendly Interface: Easy navigation for all functionalities.
- Notification System: Reminders for upcoming events.

<u>Users of the Event Tracking App Goals and Their Needs</u>

Types of Users:

- Personal Users: Individuals looking to manage personal events like appointments, gatherings, etc.
- Professional Users: Professionals who need to track meetings, deadlines, conferences, etc.
- Event Planners: Users who organize events for others and need to manage multiple events simultaneously.

Goals and Needs of Users:

- Personal Users:
    - Goals: Manage personal events, and reduce the risk of forgetting important dates.
    - Needs: Simple interface, reliable notifications, and ease of adding/removing events.
- Professional Users:
    - Goals: Ensure no overlap in professional commitments, and maintain a clear schedule.
    - Needs: Detailed event information, synchronization with other calendars, robust notification system.
- Event Planners:
    - Goals: multiple events, maintain clear communication with clients.
    - Needs: Multiple event management, scalable database, options for categorizing events.

<u>The Event Tracking App Screens and Features</u>

1. Login/Registration Screen
   - Functionality: Allows users to either log in with existing credentials or create a new account.
   - Design: Text fields for username and password, and buttons for logging in or registering.
   - Justification: Android Design Guidelines, simplicity, and ease of use are key. This screen should be straightforward to ensure a smooth user experience.

2. Main Dashboard
   - Functionality: Displays an overview of upcoming events in a grid format.
   - Design Elements: A clean, scrollable grid layout showing event titles and dates. A bar at the top for navigation and a floating action button for adding new events.
   - Justification: This aligns with the Material Design of Android, focusing on bold, graphic, intentional visuals, and prioritizing content.
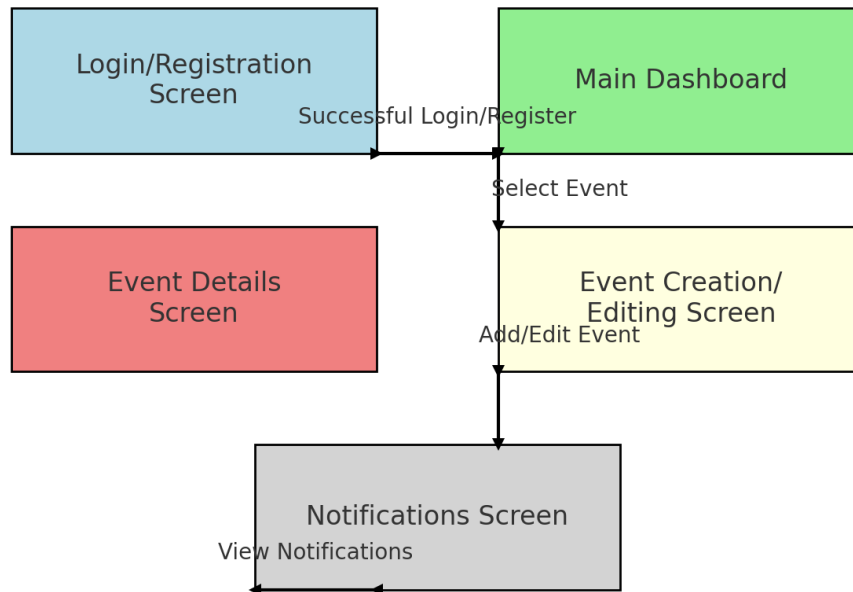
3. Event Details Screen
   - Functionality: Displays detailed information about a selected event.
   - Design Elements: Sections for date, time, description, and options to edit or delete the event.
   - Justification: Consistency in layout is emphasized in the guidelines, enhancing usability and readability.

4. Event Creation/Editing Screen
   - Functionality: Add or edit event details.
   - Design Elements: Form fields for entering event name, date, time, and description. Save and cancel buttons.
   - Justification: Android's guidelines suggest keeping forms simple and uncluttered.

5. Notifications Screen
   - Functionality: Lists upcoming event reminders.
   - Design Elements: A list view showing events with upcoming notifications
   - Justification: Guidelines for notifications, concisely providing essential information.

The Event Tracking App Requirements Represented

1. Login/Registration Screen
   - UI Components: Username and password input fields, login and register buttons.
   - Data Flow: User credentials are either verified through the database or created

2. Main Dashboard
   - UI Components: Event grid display, a button for adding new events.
   - Data Flow: Events are fetched from the database and displayed, the button leads to the Event Creation/Editing Screen.

3. Event Details Screen
   - UI Components: Display fields for event details, edit, and delete buttons.
   - Data Flow: Shows selected event's details with options to edit or delete the event

4. Event Creation/Editing Screen
   - UI Components: Input fields for event details, save and cancel buttons.
   - Data Flow: Collects new/edited event information to be stored or updated in the database.

5. Notifications Screen
   - UI Components: List of events with notifications
   - Data Flow: Displays events with notifications, with adjustments settings.