Proposal: Scheduler Application

The Scheduler Application is a mobile app developed to assist users in managing and keeping track of their meetings. It enables users to schedule, display, modify, and delete meetings with ease. The app is built using Android Studio and employs SQLite for database management. It focuses on providing a streamlined interface to handle meeting details such as date, time, and agenda.

### **Features**

1. **User Authentication**:
   * **Sign-Up**: Users register with a username and password.
   * **Login**: Users log in using their credentials.
2. **Meeting Management**:
   * **Schedule Meeting**: Allows users to select a date and time, enter an agenda, and save the meeting details.
   * **Display Meetings**: Displays all meetings scheduled for a selected date.
   * **Modify Meetings**: Lets users edit the details (date, time, agenda) of an existing meeting using its unique ID.
   * **Delete Meetings**: Allows deletion of specific meetings by entering their ID.
3. **User-Friendly UI**:
   * Intuitive design with separate pages for each feature.
   * Calendar and time pickers for selecting meeting dates and times.
   * Toast messages for feedback (e.g., success or failure of operations).
4. **Data Storage**:
   * SQLite database to store user credentials and meeting details.
   * CRUD operations (Create, Read, Update, Delete) for meeting records.

### **Functions**

* **User Registration**: Ensures usernames are unique and passwords meet minimum length requirements.
* **Login Verification**: Validates user credentials against stored data.
* **Add Meeting**: Checks for conflicts before scheduling a new meeting.
* **Display Meeting Details**: Retrieves and shows meeting information for a given date.
* **Modify Meeting**: Updates meeting details if the new details don’t conflict with existing meetings.
* **Delete Meeting**: Removes meeting details from the database based on the user’s input.

The application is practical for students and professionals needing to organize and track their schedules efficiently.

**Why It’s Needed**

The Scheduler Application addresses the growing need for a dedicated meeting management tool that goes beyond generic calendar apps. It provides:

* A focused platform specifically for organizing meetings.
* A tool for avoiding scheduling conflicts and keeping all meeting details at your fingertips.
* An intuitive solution for individuals overwhelmed with multiple meetings daily.

**Future Vision**

While starting as a basic meeting organizer, the app has the potential for enhancements such as:

* **Notifications and Reminders**: Alerts to remind users about upcoming meetings.
* **Meeting Sharing**: Options to share meeting details or links with attendees.
* **Cloud Integration**: Synchronization with cloud services for backup and multi-device accessibility.