**Mood Tracker Application Documentation**

**Overview**

This Flutter application allows users to track their mood and journal their thoughts for each day. Users can add, view, edit, and delete mood entries, providing them with a simple way to reflect on their emotions over time.

**Features**

* **Mood Tracking**: Users can record their mood by selecting from a list of predefined options.
* **Journal Entry**: Users can add journal entries to provide additional context or details about their mood.
* **Date and Time**: Each mood entry includes the date and time when it was recorded.
* **Data Persistence**: Mood entries are stored locally using **SharedPreferences**, ensuring that they are retained across app launches.

**Usage**

**Dependencies**

* Dart SDK
* Flutter

**Installation**

1. Clone the repository to your local machine.
2. Ensure that you have Flutter installed on your system.
3. Run **flutter pub get** to install the required dependencies.
4. Connect a device or start an emulator.
5. Run **flutter run** to launch the application.

**Functionality**

* **Viewing Mood Entries**: The main screen displays a list of mood entries, showing the mood, date, and time for each entry. Users can tap on an entry to view its details.
* **Adding Mood Entries**: Users can add a new mood entry by tapping the "Add Mood Entry" button. They can select their mood from a dropdown menu and optionally add a journal entry.
* **Editing Mood Entries**: Users can edit an existing mood entry by tapping the "Edit" button on the detail screen. They can update the mood and journal entry and save the changes.
* **Deleting Mood Entries**: Users can delete a mood entry by long-pressing on it and confirming the deletion.

**Code Structure**

* **MoodEntry**: A class representing a mood entry with properties such as mood, date, and journal entry.
* **MoodTrackerHomePage**: The main screen of the application, displaying the list of mood entries and providing options for adding, viewing, and editing entries.
* **MoodEntryDetailPage**: A screen for displaying the details of a mood entry, including the mood, date, and journal entry. It also allows users to edit the entry.
* **EditMoodEntryPage**: A screen for editing an existing mood entry, allowing users to update the mood and journal entry.

**Future Enhancements**

* Implementing user authentication to allow multiple users to track their mood separately.
* Adding data visualization features to analyze mood trends over time.
* Integrating with external APIs or services to provide additional insights or recommendations based on mood data.