Project Brief

Overview

The mood tracker app is a Java-based application designed to help users track their daily moods and gain insights into their emotional well-being over time. The app provides users with a simple and intuitive interface to record their moods, view historical data, and analyse trends.

**Key Features:**

**User Authentication:**

* Users should be able to create an account or log in securely to access the app's features.

**Mood Logging:**

* Users can log their mood for each day using predefined mood categories.
* Users can add notes or tags to provide context for their mood entries.

**Calendar View:**

* A calendar view displays mood entries for each day, allowing users to quickly navigate to specific dates.

**Data Visualization:**

* The app should provide visualizations such as graphs or charts to display mood trends over time.

**Insights and Analysis:**

* Provide insights or analysis based on the user's mood data, such as identifying patterns or correlations with external factors.
* Suggestions for improving mood based on historical data or user input.

**Reminders:**

* Users can set reminders to log their mood at specific times during the day.

**Customization:**

* Allow users to customize the app's appearance, including themes and color schemes.

**Data Backup and Synchronization:**

* Implement a mechanism for securely backing up user data and synchronizing it across multiple devices if applicable.

**Additional Considerations:**

* **Privacy and Security:** Implement robust security measures to protect user data, including encryption for sensitive information and adherence to privacy regulations.
* **Accessibility:** Design the app with accessibility features in mind to accommodate users with different needs, such as text-to-speech support and high contrast modes.

**Technology Stack:**

* **Programming Language:** Java
* **Database:** SQLite or MySQL for local storage
* **Frameworks/Libraries:** JavaFX for the user interface
* **Development Environment:** IntelliJ IDEA

**Target Platforms:**

* Desktop: Windows, macOS, Linux

**Project Deliverables:**

* Fully functional app source code.
* User documentation including installation instructions and user guide.
* Test cases and documentation for quality assurance.

**Project Timeline:**

* Planning and Requirements Gathering: \_ week
* UI Design and Prototyping: \_ weeks
* Development and Testing: \_ weeks
* Documentation and Finalization: \_ week