Milestone 2 Report - Mindful Journal

Objective:

Implement core features of the app, including the integration of the step tracker, mood tracking, journaling functionalities, and initial steps towards the database setup. The app's user interface (UI) will also be refined, with the database and GPS integration planned for the final milestone.

What is Done:

1. Core Features Implementation:

Step Tracker Integration:

The step tracker has been integrated to monitor users' daily step count, helping them track their physical activity.

Some parts of the step tracker integration are still in progress, requiring final refinements and optimization.

Mood Tracking and Journal Entries:

Users can now select and track their mood for each journal entry, which allows users to reflect on both their thoughts and emotions.

Users can add and save journal entries, with each entry linked to mood data.

Daily Journal Entries:

Users can create and view journal entries, which include a timestamp for each entry.

2. UI Design:

Jetpack Compose has been used to design the user interface for the app.

Home Screen displays an overview of journal entries and mood tracking.

Journal Screen allows users to write and save journal entries with mood tracking.

The UI is functional, but design elements like colour schemes and typography still need finalization.

What is Left:

1. Step Tracker Completion:

The step tracker is partially integrated. Additional work is needed to finalize the integration and ensure accurate data tracking.

The step data should be clearly presented to the user, and any issues with syncing or displaying step counts need to be resolved.

2. Database Setup (Not Started):

Database Integration has not yet begun. This will involve setting up a local database (Room) to store the user's journal entries, mood tracking data, and step tracking data.

Tables: We need to create tables for journal entries, mood data, and step data.

CRUD Operations: Implement Create, Read, Update, and Delete operations to manage the user's data in the database.

Data Persistence: Ensuring the journal entries and mood data are properly saved and accessible even after the app is closed.

Planned Database Tasks:

Set up Room Database for local storage.

Define data models for journal entries and mood tracking.

Implement functions to save, update, and retrieve journal entries and moods.

Consider implementing relationships between the journal entries and moods for better data organization.

3. Design Finalization:

The UI design requires further refinement.

Final mock-ups need to be completed, including colour scheme, font styles, icons, and layout adjustments.

Improve the overall visual appeal and usability of the app.

4. GPS Integration (Optional):

GPS Integration is planned to provide location-based mood suggestions or prompts.

The GPS functionality could also be used to track physical activity or suggest activities based on location.

This feature will be considered in the final milestone.

Conclusion:

Milestone 2 has made significant progress with the implementation of key features such as mood tracking, journaling, and the step tracker. However, the database setup has not yet been started, and final design adjustments and GPS integration are still pending.

The next steps will focus on:

Completing the step tracker integration.

Setting up the database to store user data.

Finalizing the UI design to ensure it is polished and user-friendly.

Implementing GPS if feasible by the end of the project.

Milestone 3 will focus on finalizing the app's technical infrastructure and polishing the features for the app's completion.

Git Repository:

[Mindful Journal GitHub Repository](#)