

Assignment: Habit Tracker App

Objective: Develop a habit tracker app that allows users to create, manage, and track their daily habits. The app should be user-friendly and visually appealing, providing essential features for habit formation and tracking.

Requirements:

Framework:

Use Flutter for developing the app, ensuring it works seamlessly on both iOS and Android platforms.

Key Features:

User Authentication: Implement user registration and login functionality using Firebase Authentication.

Habit Management: Allow users to add, edit, delete, and mark habits as completed.

Habit Tracking: Display a calendar view to track daily habit completion.

Notifications: Set reminders for each habit to help users stay on track.

Progress Overview: Provide a dashboard to show overall progress, streaks, and habit completion rates.

Statistics: Show statistics with charts to visualize habit trends and performance.

Additional Features (Optional):

Dark Mode: Support both light and dark modes.

Localization: Support multiple languages.

Social Sharing: Allow users to share their progress on social media platforms.

Data Backup: Implement cloud storage for data backup and synchronization across devices.

Technical Requirements:

Follow the principles of clean architecture and code organization.

Use the Provider or Riverpod package for state management.

Ensure responsiveness and compatibility across different screen sizes and orientations.

Write unit tests for critical parts of the application.

Deliverables:

Source Code:

Provide the complete source code, hosted on a GitHub repository.

Include a README file with instructions on how to set up and run the application locally.

Documentation:

Provide documentation detailing the app's features, architecture, and any design decisions made during development.

Include API documentation if applicable.

Demo:

Deploy the application to both the App Store (iOS) and Google Play Store (Android), or provide APK and IPA files for testing.

Record a short video walkthrough of the app, highlighting the main features and demonstrating the user flow.