Name: Soham Hajare D15B/19

Pre-requisites for Flutter Quiz App Development

Overview

Our project involves developing a sophisticated quiz app using Flutter, a leading cross-platform framework for mobile applications. This app is designed to offer users a dynamic platform for creating, sharing, and participating in quizzes. Below are comprehensive pre-requisites to ensure a smooth development process.

Features

1. Quiz Creation

 Users can author quizzes with customizable questions, answer options, and multimedia elements if desired.

2. Quiz Participation

 Users can actively engage in quizzes created by others, receiving scores upon completion.

3. Leaderboard

• The app incorporates a leaderboard to showcase top scorers across various quizzes, fostering healthy competition.

5. Firebase Integration

• The app seamlessly integrates with Firebase for essential functionalities, including data storage, community interaction management, user-specific data storage, and robust authentication and security features.

Hardware Requirements

Processor: Dual-Core 2GHz or equivalent

• RAM: 8GB or Higher

• Operating System: Windows 7 or newer, or Linux machine

Software Requirements

Flutter SDK

• Download and install the Flutter SDK, encompassing the Flutter framework, Dart SDK, and assorted command-line tools tailored for Flutter app development.

Integrated Development Environment (IDE)

- Choose an IDE for Flutter development, such as:
 - Visual Studio Code (VS Code) with the Flutter and Dart plugins.
 - Android Studio with the Flutter plugin.
 - IntelliJ IDEA with the Flutter plugin.

Firebase Account

 Sign up for a Firebase account, an essential step for creating a Firebase project, configuring Firestore for data storage, setting up Firebase Authentication for user identity verification, and potentially integrating Firebase Storage for multimedia elements.

Firebase Tools

 Install the Firebase command-line tools (firebase-tools) to efficiently interact with Firebase services through the command line. This includes tasks like app deployment and Firebase service management.

Flutter Packages and Plugins

 Configure dependencies in the Flutter project's pubspec.yaml file for crucial packages like firebase_core, cloud_firestore, firebase_auth, and any additional packages required for multimedia handling, UI components, state management, etc.

Additional Considerations

• Tailor dependencies based on specific project requirements, including packages for quiz logic, user interactions, and navigation.

By adhering to these pre-requisites, developers can lay a solid foundation for the successful development of a feature-rich Flutter quiz app.