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Topic: Building a Note Taking App with Unique Features using Flutter and Firebase

Problem Statement:
In the realm of digital organization and productivity, note-taking applications serve as indispensable tools for capturing thoughts, ideas, and reminders. Our goal is to develop SnapNotes, a feature-rich note-taking app, with unique functionalities such as Time Capsule Notes and Sketch Notes. The challenge lies in creating an intuitive user interface, integrating real-time collaboration features, and ensuring secure storage of notes in the cloud.

Software Requirements:

Flutter SDK:

Flutter SDK is an essential toolkit for building cross-platform applications.
Install Flutter to develop SnapNotes for mobile platforms.

Dart:
Dart programming language is used with Flutter.
Dart is included with the Flutter SDK.

Firebase Account:
Create a Firebase account to utilize Firebase services for backend functionality.
Set up a new Firebase project from the Firebase Console to store and manage user data securely.

Firebase SDK:
Integrate Firebase SDK into the SnapNotes project to leverage Firebase Authentication, Cloud Firestore, and Firebase Storage.

IDE (Integrated Development Environment):
Choose a compatible IDE for Flutter development, such as Visual Studio Code or IntelliJ IDEA.

Version Control System:
Set up version control using Git to track changes and collaborate effectively with team members.

Flutter Packages:
Utilize relevant Flutter packages from the pub.dev repository to implement features like drawing tools for Sketch Notes and scheduling for Time Capsule Notes.

Hardware Requirements:

Development Machine:
A computer with a minimum of 4GB RAM and a dual-core processor.
Ensure sufficient disk space for Flutter SDK and project files.

Mobile Device or Emulator:
Use a physical mobile device or emulator with adequate resources to run and test SnapNotes during development.