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1. Introduction

In today's fast paced academic environment, students often struggle to manage their class schedules effectively. Many people use handwritten timetables or general purpose calendar software, which can be ineffective and rigid. Current planning tools sometimes lock down helpful alternatives behind paywalls, have superfluous functionality, or demand continuous internet connectivity. ClassX provides a user friendly, offline first, student focused scheduling solution to address these problems. It is quite configurable because it enables manual addition of important academic information like instructor names and classroom locations. ClassX, which reduces distractions and helps students stay organized and on time, is made with clarity and attention in mind. ClassX bridges a crucial gap left by traditional apps by emphasizing students' basic academic needs and enabling them to easily manage their routines.

2. Literature Review

Numerous applications, such as Google Calendar[1], Timetable[2], and My Study Life[3], aim to assist students in managing their academic calendars. These tools are useful, but they frequently lack important features. Due to their frequent internet access requirements, Timetable and My Study Life are not as useful in situations with poor connectivity. Although Google Calendar has extensive scheduling capabilities, it is devoid of academic specific features like instructor names and classroom locations. Moreover, its general purpose design can overwhelm students with non academic notifications. In contrast, ClassX is geared for academic use, enabling offline access, manual class input, and a minimalist UI that keeps users focused. ClassX is a more realistic and stress free option because of its focused design, which closes the gap between student needs and current solutions.

3. Features

ClassX is created with student simplicity in mind. It avoids the clutter of standard planners by focusing on fundamental academic demands. Even without internet access, the features guarantee improved routine management.

- **Offline first design:** Ensures uninterrupted access to schedules even without internet connectivity.
- **Manual task entry:** Custom fields for manual tasks
- **Minimalist UI/UX:** Clean and focused interface designed to reduce stress and distractions.
- **Academic Centric Functionality:** Tailored specifically for student routines, unlike generic planners.
- **Future Enhancements:** Planned support for Google Calendar sync, Excel imports, and smart notifications/reminders.

Together, these features make ClassX a powerful and dependable academic planner. They not only solve real time problems but also empower students to take charge of their daily academic lives.

4. Methodology

We used an organized development process to provide a workable and intuitive solution. Understanding student needs, determining essential features, and illustrating system behavior are all part of the technique. Diagrams are used to clearly depict workflow and interactions. This ensures seamless deployment and helps match features with actual academic tasks.

4.1 Use Case Diagram

Shows how a student interacts with the ClassX system to perform key tasks.

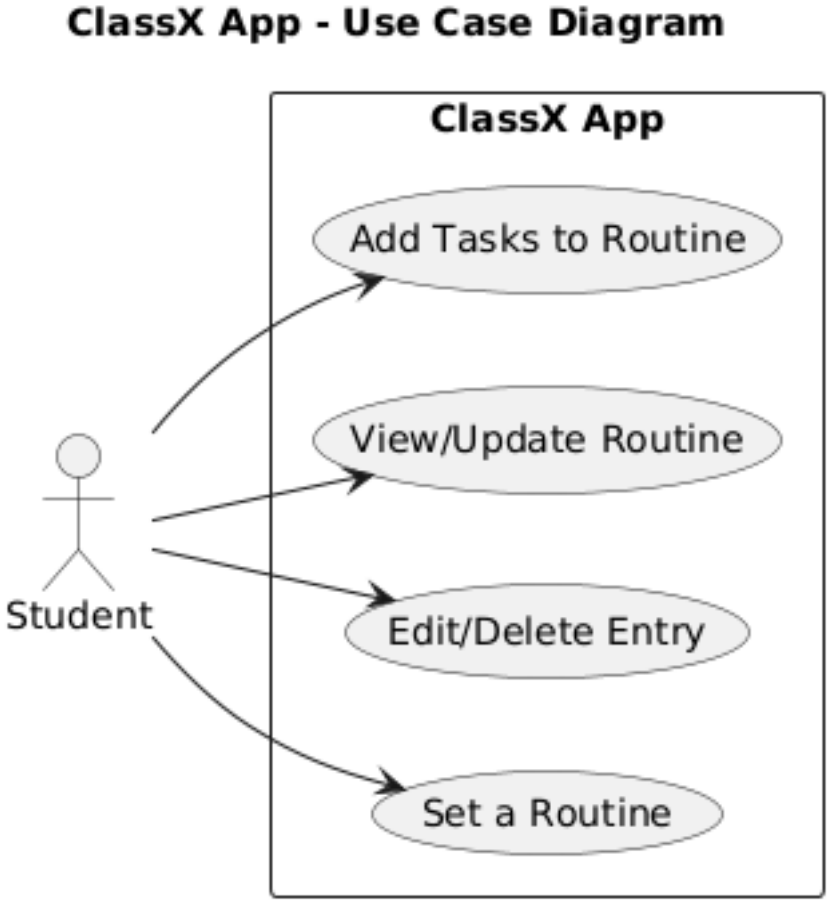

Figure 1: Use Case Diagram

4.2 Activity Diagram

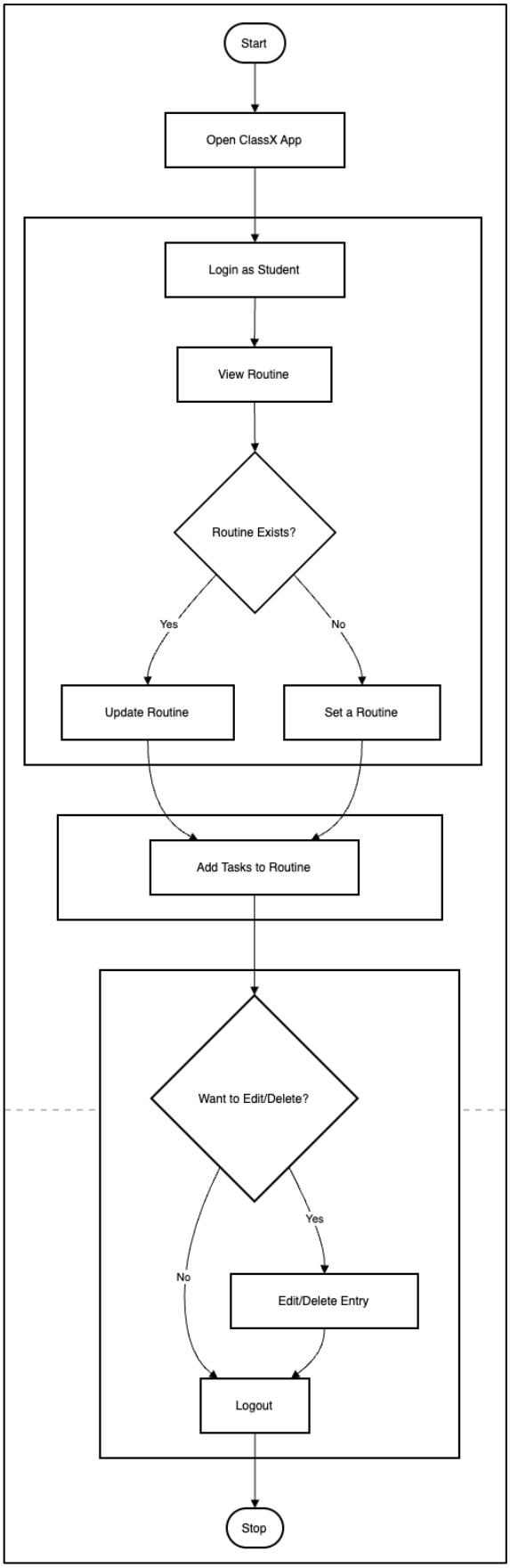

Figure 2: Activity Diagram

5. Tools & Technologies

To develop a responsive, reliable, and offline capable mobile application, we have selected technologies that ensure both performance and scalability. These tools were selected to offer a seamless user experience while streamlining development.

- **Frontend:** React Native [4] for cross platform mobile app development
- **Database:** Firebase [5] for Authentication.
- **Version Control:** GitHub [6] for code management, collaboration Version Control
- **Others:** VS code, Tailwind CSS,

These technologies collectively support the core vision of ClassX: simplicity, accessibility, and efficiency. Their integration allows for quick updates, real time syncing, and robust offline features that benefit student users.

6. Budget

N/A

7. Timeline

The development timeline for ClassX has been planned to ensure a smooth and efficient workflow. The project spans six weeks, each dedicated to specific milestones necessary for delivering a polished, functional mobile application. The timeline is designed to reflect the app's lightweight and offline first nature, allowing for quick iterations and refinements.

Phase	Duration (Weeks)	Description
Requirements	7 days	Collect and define essential app features
Design	7 days	Create wireframes, UI/UX layout
Development (Core)	14 days	Implement UI and core functionality
Database Integration	7 days	Set up local SQL storage and CRUD operations
Testing	7 days	Test for bugs, UI issues, offline behavior
Final Review & Fixes	7 days	Polish app, optimize performance, final touches

8. Conclusion

ClassX is a focused and reliable solution that simplifies class routine management for students. Unlike generic planners, it is tailored for academic needs with offline capabilities and a clean user interface. The app promotes stress free scheduling by removing distractions and complexities, helping students stay organized and punctual. With future plans for calendar integration, smart reminders, and data import options, ClassX is set to become an essential academic companion for students.

9. References

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