

Study Buddy

1.) Introduction

Study Buddy is a comprehensive online platform designed to foster collaborative learning and provide students with tools to manage their study routines efficiently. Built using the robust MERN stack, Study Buddy offers a modern, scalable solution where both admins and users (students) can interact in unique ways, creating a supportive educational ecosystem.

2.) Project Features

a. Admin Role

- i. Admins have the authority to manage various aspects of the Study Buddy platform, ensuring smooth operations and managing premium offerings. The admin role includes the following key responsibilities:
- ii. **Manage Premium Membership:**
Admins can configure and manage premium membership options for users. They can define membership tiers, pricing, and the benefits associated with each level.
- iii. **Enable/Disable Features:**
Admins can control access to specific platform features such as:
- iv. **Video Calling (VC):** Enable or disable the video conferencing option in the community.
- v. **Chat:** Manage the messaging feature within communities.
- vi. **User Management:**
Admins can monitor, activate, or deactivate user accounts, ensuring compliance with platform policies.
- vii. **Community Management:**
Admins have the authority to manage and oversee the student communities created within the platform. This includes resolving conflicts, overseeing discussions, and ensuring healthy interaction among community members.

b. User Role (Students)

- i. The platform offers a wide array of features for students, empowering them to manage their studies more effectively while engaging with peers. The core functionalities available to users include:
- ii. **User Registration and Login:**
Users can create accounts, log in securely, and manage their profiles. Basic profile management will include personal details, study preferences, and academic goals.
- iii. **Study Routine Management:**
Students can create, modify, and manage their study routines. This feature will allow users to organize their time efficiently and receive reminders to stay on track.

- iv. **Study Suggestions:**
Based on a user's study routine and preferences, the system will provide personalized study recommendations, helping them optimize their learning path.
- v. **Community Creation and Management:**
Users can create their own study communities or join existing ones. Each community can focus on a specific subject, exam preparation, or academic goal.
- vi. **Community Video Calls and Chats:**
Users can organize video calls (VC) within their communities for group study sessions or discussions. Additionally, they can use the chat functionality to communicate with other community members.
- vii. **Premium Membership:**
Users can upgrade to premium membership to unlock exclusive features:
- viii. Access to various tests and quizzes related to their field of study
- ix. Participation in certification programs
- x. Detailed progress tracking and analytics based on their study performance

3.) Key Modules

- a. The Study Buddy platform is divided into several modules for better functionality and user experience:
 - i. ? **Authentication Module:** Handles user registration, login, and role-based access control.
 - ii. ? **User Dashboard:** A personalized dashboard where users can manage their profile, study routine, and community involvement.
 - iii. ? **Admin Dashboard:** An intuitive admin panel to manage premium memberships, users, and community features.
 - iv. ? **Community Module:** Allows users to create, join, and manage study communities with features like video calls and chat.
 - v. ? **Test and Certification Module:** Provides premium users access to various subject-based tests and certifications.