#### **Studious Functional Requirements:**

* User's ability to create, join, and manage Study Circles (group study spaces).
* Group chat functionality supporting text, images, and file sharing.
* Search function to find Study Circles by school, grade level, or course.
* Direct messaging for private user communication.
* User profiles that include photo, school, grade level, enrolled classes, and custom descriptions.
* Ability to send and accept friend requests.
* Status indicators showing whether users are online, studying, away, or offline.
* Note sharing within study groups and on personal profiles.
* Ability to request notes or resources from other users.
* Assignment and task tracking with due dates and descriptions.
* Interactive calendar for visualizing deadlines and tasks.
* Built-in Pomodoro timer for focused study sessions.
* Interactive study tools, including flashcards, quizzes, and live polls for individual or collaborative work.
* Secure authentication and login.
* Real-time updates and notifications for group activity and messages (Socket.io).

**Studious Non-Functional Requirements:**

* Ease of use: Intuitive and modern user interface designed for students of varying academic levels.
* Accessibility: Compatible across major web browsers (Chrome, Firefox, Safari, Edge) and responsive on desktops, laptops, and tablets.
* Reliability: Consistent performance with minimal downtime for users.
* Security: Encryption and secure authentication to protect user data, files, and communications.
* Scalability: Backend and database architecture designed to support future growth (integration with cloud or API-based systems).
* Performance: Fast load times and real-time responsiveness for chat and collaboration features.
* Availability: Accessible 24/7 with reliable server uptime and data persistence.
* Maintainability: Clean, modular code structure allowing for easy updates and feature additions.
* Affordability: Low cost or freemium model to ensure accessibility for all students.

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#### **Studious User Experience Requirements:**

* Collaboration by encouraging group learning, communication, and shared academic growth.
* Customization by allowing users to personalize profiles and study environments.
* Helpful study tools by providing gamified study methods (Pomodoro timer, quizzes) to boost engagement.
* Community building through meaningful connections through shared courses and study interests.
* Support by offering flexibility for both individual and group study preferences.