

Software Requirements Specification For Study Buddy

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1. INTRODUCTION

1.1 Purpose

StudyBuddy is a mobile application developed to help students efficiently manage their academic and personal schedules. The app aims to provide students with tools for prioritizing tasks, planning study sessions, setting reminders, managing group projects, and tracking their progress, all while promoting a balanced lifestyle through personalized productivity insights and mental health tips.

1.2 Scope

Inclusions:

1.Task Management:

- Creation, prioritization, and organization of tasks with options for deadlines, categorization, and progress updates.
- Color-coded task status indicators (e.g., pending, in-progress, completed).

2.Smart Reminders:

- Automated alerts based on deadlines and user-set priorities.

3.Collaboration Tools:

- Shared calendars and schedules for group projects.
- Task assignment functionality for group members.

4.Progress Tracking:

- Displaying completed tasks, productivity streaks, and overall performance metrics.
- Weekly and monthly reports to help users evaluate and improve their time management habits.

5.Personalized Insights:

- AI-driven recommendations for productivity improvement.
- Mental health tips and suggestions for balancing academic and personal commitments.

6.User Engagement Features:

- Gamification features, such as productivity streaks, badges, leaderboards, and friendly competition to encourage user engagement and motivational text posts from users.

7.Platform Support:

- Availability as a mobile application (iOS and Android) for cross-platform accessibility.

Exclusions:

1.Advanced Educational Content:

- StudyBuddy will not provide academic resources such as study materials, course content, or tutoring services.

2.Offline Functionality:

- The application will require an active internet connection for most features, such as task synchronization and AI-driven insights.

3.Non-Student Users:

- The app is specifically tailored for students and does not include features optimized for professionals .

4.Custom AI Development:

- The app uses existing AI tools and services, such as Google Cloud AI, but doesn't develop its own unique AI algorithms.

5.Integration with External Platforms:

- The initial version will not support integrations with third-party platforms like Google Calendar or Microsoft Teams, although this may be considered for future iterations.

1.3 DOCUMENT CONVENTIONS

- **Streak:** A count of how many days in a row a user completes tasks.
- **Leaderboard:** A list showing how users rank based on their productivity.
- **Badges:** Awards for completing tasks or hitting goals.
- **Task Prioritization:** Organizing tasks by how urgent or important they are.
- **Extend Task:** Letting a user add more time to finish a task.
- **Finish Task:** Marking a task as done.
- **Gamification:** Adding fun features like text posts, streaks, badges, and rankings to keep users engaged.
- **Mental Health Notification & Motivation:** A collection of tips and resources for staying balanced and healthy
- **Collaboration:** A tool to find the best time for a group to meet.
- **AI-Driven Insights:** Suggestions to improve productivity based on user habits.
- **Notifications:** Alerts sent to remind users about tasks or deadlines or any type of notification.
- **Calendar View:** A display of tasks and schedules in a calendar format.
- **Offline Functionality:** Whether the app works without the internet.
- **Cloud Storage:** A service to save and sync user data online.
- **Third-Party APIs:** External tools added to the app for features like AI or notifications.
- **OAuth:** A secure way to log in without sharing passwords.

- **LEGAL COMPLIANCE: FOLLOWING DATA PRIVACY LAWS LIKE GDPR AND CCPA.**
- **PERFORMANCE REQUIREMENTS: RULES TO MAKE SURE THE APP WORKS QUICKLY AND SMOOTHLY.**
- **ACCESSIBILITY FEATURES: OPTIONS LIKE SCREEN READERS, VOICE COMMANDS, AND ADJUSTABLE FONT SIZES TO HELP EVERYONE USE THE APP.**
- **USER MANUAL: A GUIDE WITH INSTRUCTIONS ON HOW TO USE THE APP.**
- **IN-APP TUTORIALS: STEP-BY-STEP HELP BUILT INTO THE APP FOR NEW USERS.**
- **MODULAR DESIGN : IS AN APPROACH WHERE A SYSTEM IS BUILT WITH INDEPENDENT COMPONENTS THAT CAN BE UPDATED OR MAINTAINED SEPARATELY.**

1.4 INTENDED AUDIENCE

1) DEVELOPMENT TEAM:

Software engineers, designers, and developers responsible for implementing the app's features.

2) QUALITY ASSURANCE TEAM:

Testers ensuring the app functions correctly and meets the specified requirements.

3) PROJECT SPONSORS:

Individuals or organizations funding the project, focusing on understanding its scope, features, and return on investment.

4) PRODUCT MANAGERS/OWNERS:

Overseeing the app's progress, ensuring it aligns with user needs and project goals.

5) END USERS (STUDENTS):

The primary target audience who will use the app, providing feedback during user testing and benefiting from the final product.

2. OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

StudyBuddy is a standalone application that integrates multiple modules like scheduling, notifications, gamification, and collaboration. It uses a centralized cloud database for seamless user experience across devices.

SYSTEM INTERACTIONS

COMPONENT	INTERACTION
AI INTEGRATION	Provides task scheduling and tips via third-party AI APIs.
CLOUD STORAGE	Synchronizes tasks and progress across devices via secure cloud storage.
NOTIFICATIONS	Sends Reminders & Recommendation
COLLABORATION	Supports shared tasks and schedules through real-time updates and invitations.
SECURITY	Encrypts data and enables secure logins via OAuth.

TABLE 1

INTERNAL COMPONENT INTERACTIONS

MODULE	Interaction
TASK MANAGEMENT	Manages tasks and interacts with notifications and tracking.
PROGRESS TRACKING	Generates insights and connects to AI for recommendations.
GAMIFICATION	Share text posts, Update leaderboards, track streaks, and reward achievements.

TABEL 2

2.2 PRODUCT FUNCTIONS

KEY FUNCTIONS

1.TASK MANAGEMENT

- Add, organize, and prioritize tasks.
- Update task status (e.g., pending, in-progress, completed).
- Goal: Help1 users manage tasks efficiently and stay organized.

2.SMART REMINDERS

- Send notifications for upcoming deadlines.
- Goal: Ensure users stay on track with their schedules.

3.PROGRESS TRACKING

- Show streaks and productivity trends.
- Provide weekly and monthly performance reports.
- Goal: Motivate users to maintain consistent productivity.

4. COLLABORATION

- Allow shared schedules and group task assignments.
- Goal: Enable smooth group project coordination.

5. GAMIFICATION

- Track streaks and award badges for completed tasks.
- Display leaderboards to encourage friendly competition.
- Share text posts with friends.
- Goal: Make productivity engaging and fun.

6. PERSONALIZED INSIGHTS

- Offer AI-based recommendations for scheduling tasks.
- Provide mental health and balance tips.
- Goal: Help users improve time management and well-being.

User Interaction

1. Task Management:

Add tasks with details and priority.

View tasks in a list after submitting the task details.

Reschedule tasks or edit or approve.

Use Extend to add time or Finish to mark tasks complete.

2. Smart Reminders:

Get notifications for tasks and deadlines.

3. Progress Tracking:

Access weekly and monthly progress reports via notification.

4. Collaboration:

Assign Shared tasks and schedule the assignment with teammates.

5. Gamification:

Share text posts, Track streaks, earn badges, and check leaderboards.

6. Personalized Insights:

Receive mental health and motivational suggestions.

2.3 USER CLASSES AND CHARACTERISTICS

USER CLASS	CHARACTERISTICS	GOALS AND OBJECTIVES	SPECIAL CONSIDERATIONS
STUDENTS	Primary users. Familiar with mobile and web apps.	MANAGE TASKS, TRACK PROGRESS, AND STAY MOTIVATED.	Ensure intuitive design for varying technical skills.
ADMINS	Indirect users (project funders). Interested in app's success.	MONITOR APP IMPACT AND SUCCESS METRICS.	PROVIDE CLEAR ANALYTICS AND USAGE REPORTS.

TABEL 3

2.4 OPERATING ENVIRONMENT

CATEGORY	DETAILS
HARDWARE	Minimum: 2GB RAM, 200MB storage. Recommended: 4GB RAM, 500MB storage.
SOFTWARE	Android 10+, iOS 14+.
NETWORK	Internet required; works best with 5Mbps or faster.

TABEL 4

2.5 DESIGN AND IMPLEMENTATION CONSTRAINTS

CONSTRAINT	DESCRIPTION
PLATFORM COMPATIBILITY	Must support Android 10+, iOS 14+
INTERNET DEPENDENCY	Requires an active internet connection for all core functionalities.
CLOUD STORAGE	Relies on cloud services for data storage and synchronization; no local storage option.
PERFORMANCE REQUIREMENTS	Designed for smooth operation on devices with 2GB RAM or higher.
RESOURCE LIMITATIONS	Limited to pre-built AI frameworks and APIs; no custom AI model development in this version.
OFFLINE MODE	Not supported; users cannot access features without an internet connection.
SECURITY REQUIREMENTS	Must ensure encrypted communication and secure user authentication.

TABEL 5

2.6 USER DOCUMENTATION

THE FOLLOWING DOCUMENTATION WILL BE PROVIDED TO HELP END-USERS:

1.IN-APP TUTORIALS

- Step-by-step guides for first-time users to learn key features like task creation, reminders, and progress tracking.

2.HELP CENTER

- A built-in FAQ section covering common questions and troubleshooting tips.

3.USER MANUAL

- A detailed guide available online with instructions for all features and settings.

2.7 ASSUMPTIONS AND DEPENDENCIES

1.ASSUMPTIONS

- Users have devices running Android 10+, iOS 14+
- A stable internet connection is available for all users.
- Students are comfortable using basic mobile.

2.DEPENDENCIES

- The app depends on cloud storage for syncing data.
- Third-party APIs are required for notifications and AI features.
- App distribution relies on Google Play Store and Apple App Store approval.

3. SYSTEM FEATURES

3.1 PERSONALIZED AI-POWERED STUDY SCHEDULE

- **DESCRIPTION:**

It creates a personalized study plan by analyzing the user's schedule, deadlines, activities, and habits. It adjusts in real time to suggest the best times and order for tasks based on productivity.

- **GOAL:**

Help users maintain focus and balance with adaptive plans.

- **KEY INTERACTIONS:**

- Automatically updates schedules based on changes in user activity.
- Provides recommendations for breaks to prevent burnout.

3.2 EXTEND OR FINISH TASK BUTTON

- **DESCRIPTION:**

Allows users to "Extend" or "Finish" tasks. If a task's time ends, users can mark it as completed or extend its duration, automatically rescheduling the study plan without overlaps.

- **GOAL:**

Keep schedules flexible while ensuring tasks are completed.

- **KEY INTERACTIONS:**

- "Finish" marks the task as done.
- "Extend" adjusts timing, fitting new durations into the schedule.

3.3 TASK PRIORITIZATION

- **DESCRIPTION:**
Organizes tasks by urgency and importance.
- **GOAL:**
Help users achieve the high-priority work first.
- **KEY INTERACTIONS:**
Users rank tasks by importance from(1-10).

3.4 NOTIFICATIONS AND REMINDERS

- **DESCRIPTION:**
Sends notification such as reminders, recommendations for improvements, likes ,comments and new followers .
- **GOAL:**
Keep users aware of important commitments.
- **KEY INTERACTIONS:**
Alerts appear as notifications on mobile.

3.5 COLLABORATIVE GROUP MANAGEMENT

- **DESCRIPTION:**

Coordinates time for group study sessions by checking all members' availability to find convenient times by AI.

- **GOAL:**

Simplify scheduling for collaborative study efforts.

- **KEY INTERACTIONS:**

- Users can request collaborations.
- Availability is automatically analyzed to suggest meeting times.

3.6 PROGRESS TRACKING AND GAMIFICATION

- **DESCRIPTION:**

Tracks completed tasks, study hours, and milestones while incorporating gamification elements like streaks, badges, and leaderboards. Encourages daily task completion through motivational insights and competitive elements.

- **GOAL:**

Promote consistency, increase user engagement, and make studying rewarding and enjoyable and challenging.

- **KEY INTERACTIONS:**

- Users track streaks and earn badges for maintaining productivity.
- A leaderboard compares productivity scores with peers, fostering friendly competition.

3.7 MENTAL HEALTH AND BALANCE SUPPORT

- **DESCRIPTION:**

Provides mental health tips based on study patterns and workload to prevent burnout and promote well-being.

- **GOAL:**

Ensure users maintain a balanced and healthy approach to studying.

- **KEY INTERACTIONS:**

Tips are delivered via the dashboard or notifications.

3.8 FLEXIBLE SCHEDULE MANAGEMENT

- **DESCRIPTION:**

Enables users to adjust study plans easily, modifying task switching activities, or reorganizing priorities.

- **GOAL:**

Provide users with the freedom to adapt their schedules.

- **KEY INTERACTIONS:**

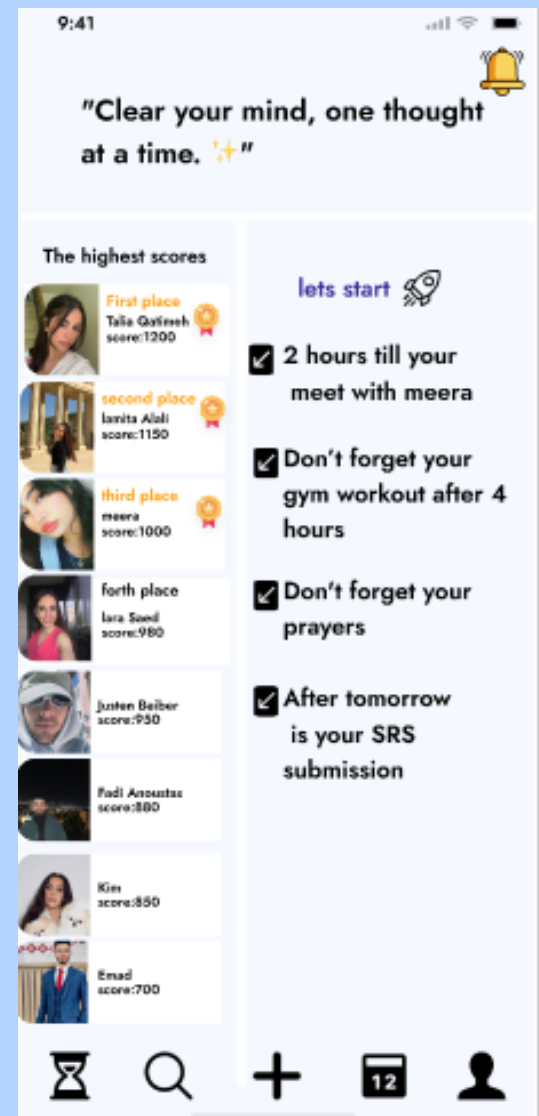
Real-time updates ensure changes do not cause conflicts.

4. EXTERNAL INTERFACE REQUIREMENTS

4.1 USER INTERFACES

1. Home Dashboard Features

- **Notification Bell:** Positioned prominently to allow quick access to alerts, reminders, and updates, ensuring users stay informed.
- **Motivational Quote:** Displays a daily quote to inspire and motivate users, enhancing their engagement with the app.
- **Leaderboard:** Showcases user rankings based on productivity, fostering a sense of competition and community among peers.
- **Task Overview:** Provides a brief overview of current tasks and schedules, allowing users to quickly assess their day at a glance.
- **Navigation Bar:** Includes an intuitive navigation bar that guides users through the app's various functionalities, improving overall user experience and accessibility.



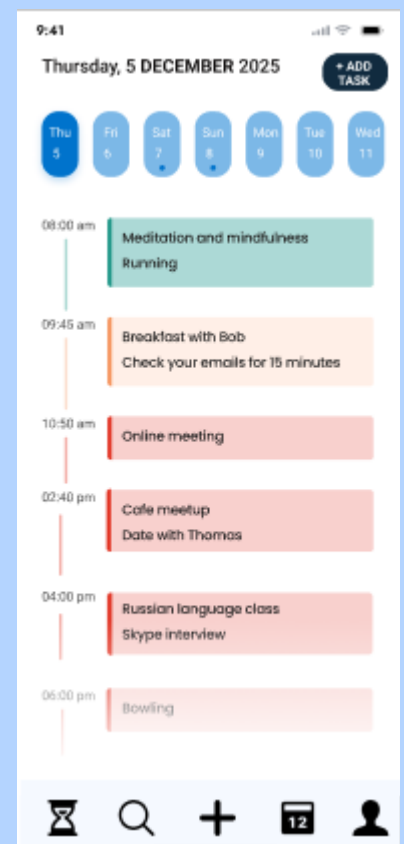
2. CALENDAR VIEW

- **Monthly Display:** Shows the entire month at a glance, facilitating easy navigation through days and weeks.
- **Interactive Day Selection:** Allows users to click on any day to access a detailed daily to-do list, providing a comprehensive view of tasks scheduled for that particular day.
- **Task Descriptions:** Each entry on the calendar includes a brief description of the task, enabling a quick overview without needing to delve into details unless selected.



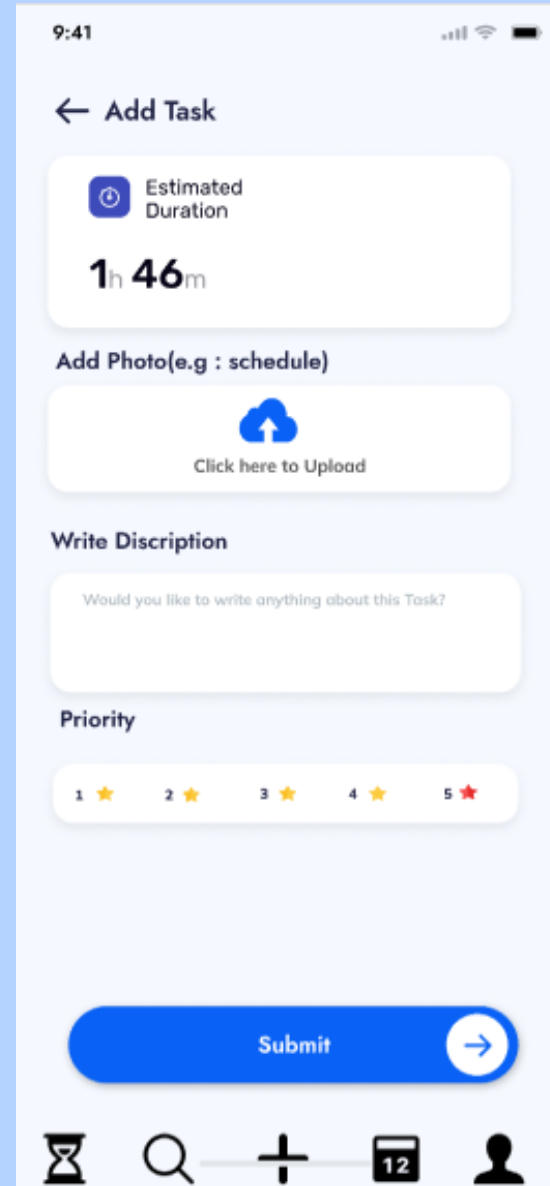
3. DAILY TASK INTERFACE

- **Day Overview:** Displays the current date at the top, clearly indicating which day's tasks are shown.
- **Task List with Timings:** Tasks are listed along with their specific start times, offering a structured schedule of daily activities.
- **Color-Coded Statuses:** Tasks are color-coded to indicate their status, enhancing visual management:
 - Green indicates completed tasks.
 - Orange denotes tasks currently in progress.
 - Red signifies tasks that have not yet been started or are overdue.
- **Task Details:** Each task includes a brief description that provides further details, such as meeting locations or specific actions like "Check your emails for 15 minutes."
- **Add Task Button:** Located at the top right, the "+ ADD TASK" button allows users to conveniently add new tasks, facilitating quick updates to the day's schedule.



4. ADD TASK INTERFACE

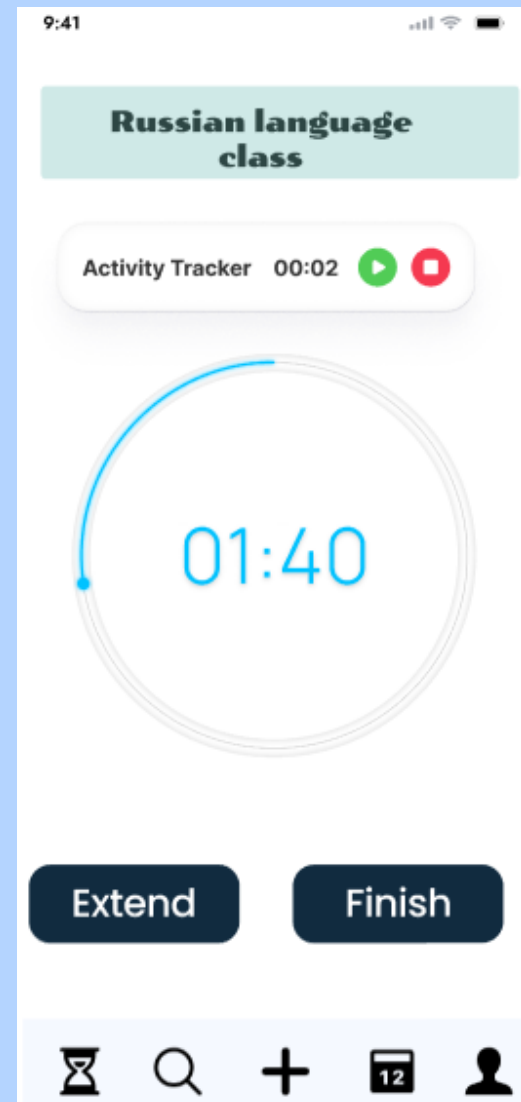
- **Access and Functionality:** Accessed through the "+ ADD TASK" button, this interface allows users to input and organize details for new tasks efficiently.
- **Estimated Duration:** Users can specify the estimated time required to complete the task. This is displayed clearly, such as "1 hour, 46 minutes," enabling precise time management.
- **Add Photo:** There is an option to upload a photo related to the task. This feature supports visual aids that may assist in task completion, with a simple click-to-upload interface.
- **Task Description:** A field is provided for writing a comprehensive description of the task. This area is essential for recording detailed instructions or notes that are crucial for task execution.
- **Priority Setting:** The interface includes a star rating system for setting the task's priority from one to five stars. Users can easily assign a priority level by tapping the stars, helping to prioritize tasks effectively based on urgency or importance.
- **Submit Button:** confirms and adds the new task to the user's schedule.



The screenshot displays the 'Add Task' interface on a mobile device. At the top, the status bar shows the time as 9:41 and signal indicators. The app header features a back arrow and the title 'Add Task'. The main form includes an 'Estimated Duration' section with a clock icon and a text input field showing '1h 46m'. Below this is an 'Add Photo(e.g : schedule)' section with a cloud upload icon and the text 'Click here to Upload'. The 'Write Discription' section contains a text area with the placeholder 'Would you like to write anything about this Task?'. The 'Priority' section shows a row of five stars, with the first four stars highlighted in yellow and the fifth in red. At the bottom of the form is a large blue 'Submit' button with a right-pointing arrow. The bottom navigation bar contains five icons: a sandglass, a magnifying glass, a plus sign, a calendar icon showing '12', and a user profile icon.

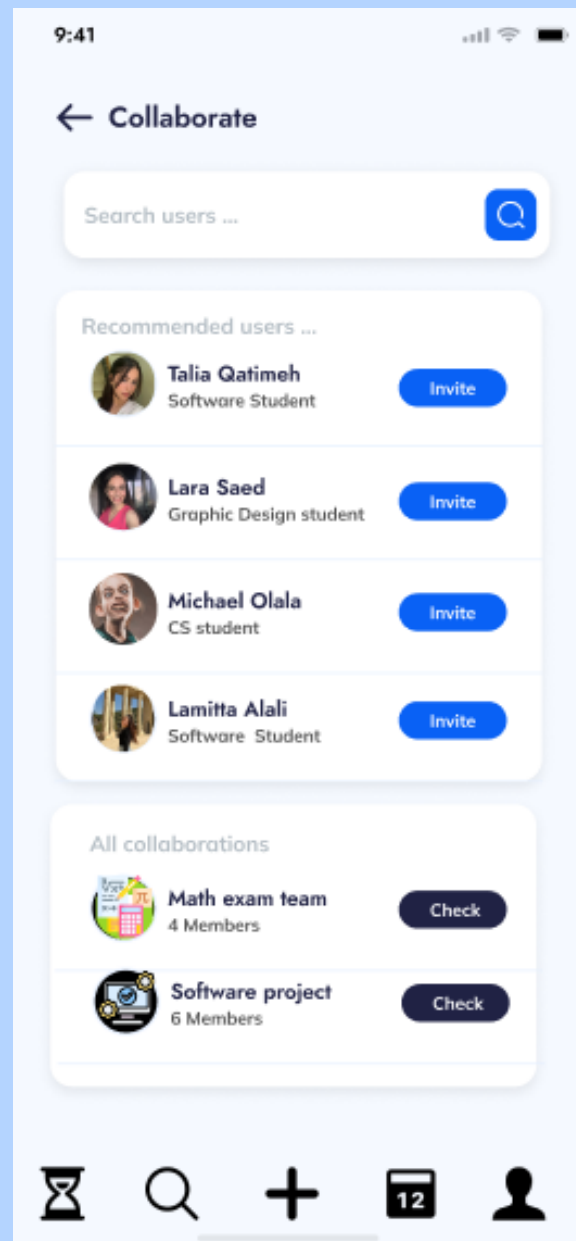
5. TASK TRACK AND EDIT INTERFACE

- **Functionality and Access:** This interface is triggered by selecting a specific task from the daily schedule. It allows for real-time monitoring and management of tasks.
- **Task Identification:** Displays the name of the task, "Russian language class", providing immediate context.
- **Activity Tracker:** Features a timer showing the elapsed time since the task began (e.g., "00:02"). It includes start (green) and stop (red) controls to actively manage task duration.
- **Visual Timer:** A large circular countdown displays the remaining time allocated for the task, in this case, "01:40", helping users visually track time until completion.
- **Control Options:**
 - **Extend:** Enables users to add more time to the ongoing task, which automatically adjusts the end time in the calendar to accommodate the extension without the need for manual rescheduling.
 - **Finish:** Marks the task as completed, stopping the activity tracker and updating the task's status in the daily schedule.



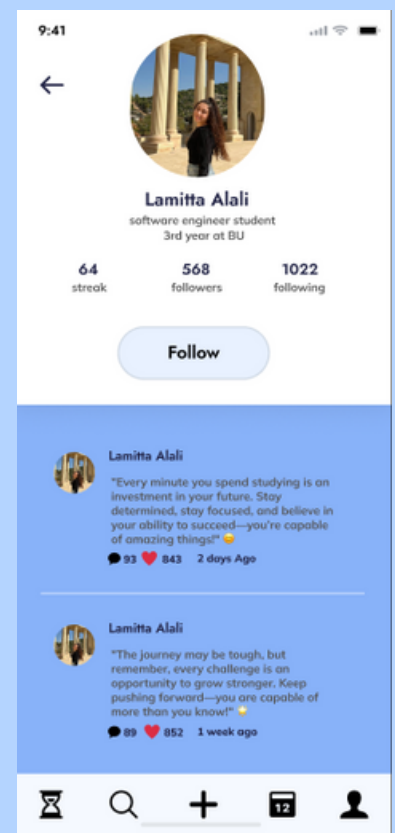
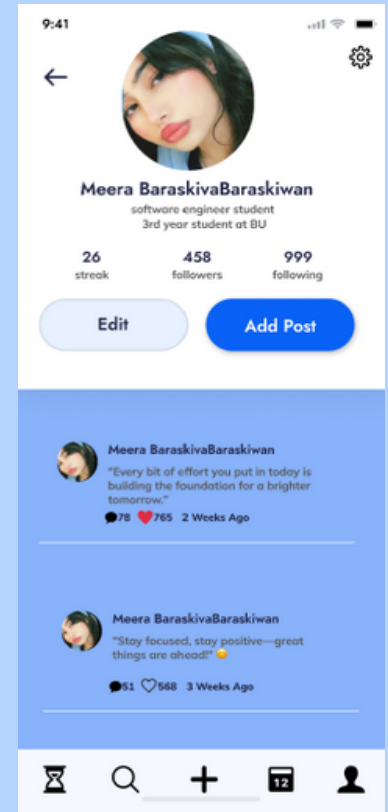
6. COLLABORATION INTERFACE

- **Access and Purpose:** This interface is accessible via the plus icon in the navigation bar and is dedicated to setting up and scheduling team meetings .
- **Search and Invite Functionality:**
 - **User Search:** Features a search bar to find other users by name or identifiers, facilitating the selection of potential team members.
 - **Recommended Users:** Displays a list of recommended users with their names and roles, alongside an "Invite" button. This button, when clicked, initiates the process to find a mutually convenient meeting time.
- **Scheduling Collaborations:**
 - **Automated Scheduling:** When a user sends an invitation, the system analyzes both the inviter's and invitee's available times to suggest the best possible time slots for a meeting.
 - **Notifications:** Once a suitable time is identified, the system sends a notification to the invited users. This notification allows them to accept or suggest a new time, ensuring all participants can find a time that works for everyone.
- **Current Collaborations:**
 - **Active Collaborations List:** The interface also shows existing groups or project teams, labeled with details like "Math exam team" or "Software project." Each listing has a "Check" button to view more details about the collaboration.



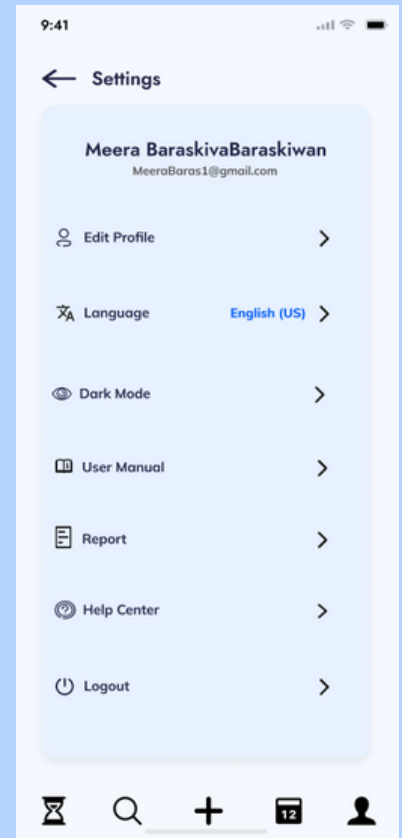
7. USER PROFILE AND FRIEND PROFILE

- **Profile Photo:** Displays a photo of the individual, adding a personal touch and helping identify the user at a glance.
- **Bio:** Includes a short description where users can share details about their interests, profession, or academic focus.
- **Streak:** Tracks the number of consecutive days a user has completed most of their daily tasks. This motivates users to maintain consistency and stay productive.
- **Posts:** Allows individuals to share updates, thoughts, or achievements. These posts can be liked and commented on by others, fostering social engagement.
- **Engagement Stats:** Profiles include follower counts, following counts, and edit, add post follow buttons.
- **Settings Button:** Available on the user profile to navigate to the settings interface, where users can manage their preferences and account details.



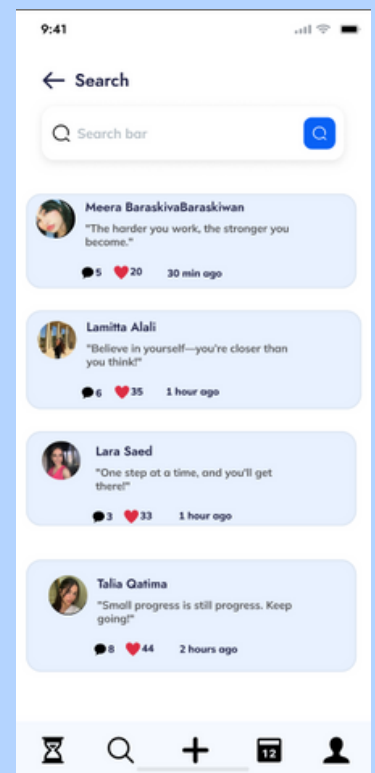
8. SETTINGS INTERFACE

- **User Information:** Displays the user's name and email at the top for identification purposes.
- **Edit Profile:** Provides an option to update personal details such as the user's name, bio, and profile picture.
- **Language:** Enables users to select or change the app's language (e.g., "English (US)"), making the app accessible to speakers of different languages.
- **Dark Mode:** Allows users to toggle between light and dark themes, catering to individual preferences and reducing eye strain.
- **User Manual:** Provides access to a comprehensive guide explaining how to use the app and its features.
- **Help Center:** Links to a support section where users can find answers to common issues or contact support for assistance.
- **Monthly Report:** generates a detailed report of the user's monthly activity, including completed tasks, streaks, and achievements. This report is sent directly to the user to track progress and celebrate accomplishments.



9. SEARCH INTERFACE

- **Search Bar:** the search bar allows users to search for friends by name or other identifiers, making it easy to connect with others in the app.
- **Friends' Posts:** Below the search bar, the interface displays recent posts from friends.



4.2 HARDWARE INTERFACES

- **HARDWARE REQUIREMENTS:**

- Minimum: Devices with 2GB RAM and 200MB storage.
- Recommended: Devices with 4GB RAM and 500MB storage for optimal performance.

- **HARDWARE INTERACTION:**

- The app does not require special hardware. It runs on standard mobile devices (Android and iOS).
- Utilizes built-in notification services (e.g., Android and iOS push notifications).

4.3 SOFTWARE INTERFACES

- **CLOUD SERVICES:**

- Interacts with cloud storage for syncing user data, schedules.

- **THIRD-PARTY APIS:**

- The system shall integrate third-party APIs to provide functionalities.

- **AUTHENTICATION SYSTEM:**

- Supports secure login/logout features with password management.
- Includes password recovery and reset functionality via email.

- **PLATFORM INTEGRATION:**

- Works with platform-specific app stores for updates and installation.

4.4 COMMUNICATION INTERFACES

- **Protocols:** Uses HTTPS for secure data and push notifications for alerts.
- **Data Formats:** JSON for data exchange.

5. NON-FUNCTIONAL REQUIREMENTS

5.1. PERFORMANCE

- The system shall respond to user actions, such as creating tasks or updating schedules, within 2 seconds under normal usage conditions.
- The system shall sync user data with the server within 5 seconds over a stable internet connection.
- If the server connection is lost, the system shall save all user inputs locally and automatically sync the data once the connection is restored, ensuring no data is lost.

5.2. Security

- The system shall use HTTPS to encrypt all data transmissions between the client and server.
- The system shall require users to create passwords that include at least 8 characters, with one uppercase letter, one number, and one special character.
- The system shall store sensitive user data (e.g., personal information, schedules) in encrypted formats

5.3. RELIABILITY & AVAILABILITY

- The system shall maintain an uptime of 99%, ensuring high availability for users.
- The system shall not exceed more than 7 hours of downtime per month, including scheduled maintenance periods.
- The system shall notify users during server downtime with a clear message and expected resolution time.
- The system shall save user data automatically during connection loss and ensure all data is synced when the connection is restored.

5.4. MAINTAINABILITY

- The system shall use a modular design to make updates and adding new features easier.
- The system shall log errors and performance issues for debugging.
- Critical bugs shall be fixed within 72 hours, and minor bugs in the next update.

5.5. Portability

- The system shall run on mobile devices with Android 10+ and iOS 14+ operating systems without requiring any modifications.

6. OTHER REQUIREMENTS

6.1 LEGAL AND REGULATORY REQUIREMENTS

- The system shall comply with data privacy laws, such as GDPR (General Data Protection Regulation) or CCPA (California Consumer Privacy Act), to protect user data.
- The system shall adhere to platform-specific policies (e.g., Google Play and Apple App Store guidelines).
- The system shall only send notifications with user consent, allow users to control their frequency, and provide an option to turn them off while following legal requirements.

6.2 OTHER REQUIREMENTS

- The system shall provide regular data backups to ensure information is not lost in case of server failure
- The system shall include accessibility features, such as support for screen readers (to assist users with visual impairments) and adjustable font sizes, to ensure usability for individuals with **disabilities**.

7. APPENDICES

7.1 GLOSSARY

ABBREVIATION	FULL FORM
RAM	Random Access Memory
SRS	Software Requirements Specification
API	Application Programming Interface
AI	Artificial Intelligence
IOS	iPhone Operating System
GDPR	General Data Protection Regulation
CCPA	California Consumer Privacy Act
FR	Functional Requirement
NFR	Non-Functional Requirement
UX	User Experience
UI	User Interface
HTTPS	HyperText Transfer Protocol Secure
OAUTH	Open Authorization
JSON	JavaScript Object Notation
FAQ	Frequently Asked Questions

TABLE 6

7.2 INDEX

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