

Use Cases

Id: UC-1

Name: User Registration and Login

Actor: Student

Type: External

Description: The student needs to create a new account or log in to access StudyBuddy.

Trigger: Launching the app for the first time or accessing the app without being logged in.

Major Input:

- User's email and password

Major Output:

1. New account created (if registering)
2. User logged into the system

Basic Flow:

1. The user opens the application and selects the option to sign up or log in.
 2. If registering, the user enters their personal information, including an email and password.
 3. The system validates the information.
 4. The user is logged into the system.
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Id: UC-2

Name: Import Class Schedule

Actor: Student

Type: External

Description: The student imports their class schedule from an external platform like Canvas.

Trigger: User selects the option to import their class schedule.

Major Input:

- User's credentials for the external platform (e.g., Canvas)

Major Output:

1. Class schedule imported and displayed in the app

Basic Flow:

1. The user selects the option to import their class schedule.
 2. The user provides their credentials for the external platform.
 3. The system retrieves and imports the class schedule.
 4. The imported schedule is displayed in the app.
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Id: UC-3**Name:** Manual Input of Assignments and Assessments**Actor:** Student**Type:** External**Description:** The student manually inputs assignments, assessments, and important dates.**Trigger:** User selects the option to add an assignment or assessment.**Major Input:**

- Assignment/assessment details (e.g., name, due date, description)

Major Output:

1. Assignment/assessment added to the calendar

Basic Flow:

1. The user selects the option to add an assignment or assessment.
 2. The user enters the details (e.g., name, due date, description).
 3. The system validates and saves the input.
 4. The assignment/assessment is added to the calendar.
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Id: UC-4**Name:** Customize Study Preferences**Actor:** Student**Type:** External**Description:** The student sets their preferred study times and days.**Trigger:** User navigates to the study preferences settings.**Major Input:**

- Preferred study times and days

Major Output:

1. Study preferences saved
2. Study schedule adjusted based on preferences

Basic Flow:

1. The user navigates to the study preferences settings.
 2. The user selects their preferred study times and days.
 3. The system saves the preferences.
 4. The study schedule is adjusted based on the preferences.
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Id: UC-5**Name:** Receive Study Reminders**Actor:** Student**Type:** External**Description:** The student receives reminders for upcoming study sessions and deadlines.**Trigger:** A study session or deadline is approaching.**Major Input:**

- Upcoming study sessions and deadlines

Major Output:

1. Reminder notification sent to the user

Basic Flow:

1. The system identifies an upcoming study session or deadline.
 2. The system sends a reminder notification to the user.
 3. The user receives the reminder.
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Id: UC-6**Name:** View Study Insights and Stats**Actor:** Student**Type:** External**Description:** The student views insights and statistics about their study habits.**Trigger:** User navigates to the insights and stats section.

Major Input:

- User's request to view insights

Major Output:

1. Insights and statistics displayed (e.g., time spent studying, number of study sessions)

Basic Flow:

1. The user navigates to the insights and stats section.
 2. The system retrieves and displays the user's study data.
 3. The user views their insights and statistics.
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Id: UC-7**Name:** AI-Powered Study Assistance**Actor:** Student**Type:** External**Description:** The student inputs topics or questions they need help with, and StudyBuddy provides areas of improvement.**Trigger:** User selects the option to use AI-powered study assistance.**Major Input:**

- Topics or specific questions the user needs help with

Major Output:

1. Study recommendations and areas of improvement

Basic Flow:

1. The user selects the option to use AI-powered study assistance.
 2. The user inputs topics or specific questions.
 3. The system processes the input and generates recommendations.
 4. The user views the recommendations and areas of improvement.
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Id: UC-8**Name:** Optimize Study Schedule**Actor:** Student

Type: External

Description: StudyBuddy analyzes the student's class assignments and assessments to optimize their study schedule.

Trigger: User requests to optimize their study schedule.

Major Input:

- Class assignments and assessments

Major Output:

1. Optimized study schedule generated

Basic Flow:

1. The user requests to optimize their study schedule.
2. The system analyzes the user's class assignments and assessments.
3. The system generates an optimized study schedule.
4. The user views and confirms the optimized schedule.

Diagram:

