| **Name/Title** | **ID** | **Description** | **System Under Design** | **Primary Actor** | **Participants** | **Goal** | **Related Use Cases** | **Precondition** | **Success Postcondition** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Take and Share Study Photos | 1 | Users can take a picture of their study session and share it with friends. | Study  Buddy | Student | NA | Users share study progress. | NA | User is logged in and has camera access. | Photos are uploaded and visible in the feed. |
| Add Captions to Posts | 2 | Users can add a short description to their study photo. | StudyBuddy | Student | NA | Users provide context to study posts. | NA | User has taken or uploaded a study photo. | Caption is displayed with the post. |
| Categorize Study Sessions | 3 | Users can tag their study posts with subjects like Math or Science. | StudyBuddy | Student | NA | User organizes study habits by subject. | NA | User is posting a study session. | Post is categorized and tracked. |
| View Friends’ Study Feed | 4 | Users can scroll through a feed showing their friends’ study posts. | StudyBuddy | Student | NA | Users stay motivated by seeing friends' study activities. | NA | User is logged in and has friends on the platform. | Feed displays recent study posts. |
| React to Study Posts | 5 | Users can add emoji reactions to their friends’ study posts. | StudyBuddy | Student | NA | Users interact and encourage friends. | NA | A study post is visible in the feed. | Reaction is added and visible on the post. |
| Earn Study Badges | 6 | Users get badges for keeping up with their study streaks. | StudyBuddy | Student | NA | Encourage consistent study habits. | NA | User has maintained a study streak. | Badges appear on the user’s profile. |
| Get Study Streak Reminders | 7 | The app reminds users to study if they haven’t in a while. | StudyBuddy | Student | NA | Help users maintain study consistency. | NA | User has an active study streak. | User receives a notification to study. |
| Invite Friends to Study Together | 8 | Users can invite friends to join them in a study session. | StudyBuddy | Student | Friends | Encourage collaborative studying. | NA | User has added friends. | Friends study together and it is displayed on the post. |
| Set Quiet Hours | 9 | Users can turn off notifications during certain times to avoid distractions. | StudyBuddy | Student | NA | Prevent distractions during non-study hours. | NA | User sets quiet hours in settings. | Notifications are silenced during quiet hours. |
| Use Offline Mode | 10 | Users can log their study sessions even without an internet connection. | StudyBuddy | Student | NA | Allow study tracking without internet. | NA | User is offline. | Study session is logged and syncs when online. |

| **Use Case** | **User Steps** | **System Response** |
| --- | --- | --- |
| Take and Share Study Photos | 1. User opens the camera in the app. 2. Takes a study photo. 3. Clicks "Share." | 1. App saves the photo. 2. App uploads the photo. 3. App notifies friends. |
| Add Captions to Posts | 1. User selects a study photo. 2. Enters a caption. 3. Clicks "Post." | 1. App updates the post with the caption. 2. Caption is displayed in the feed. |
| Categorize Study Sessions | 1. User creates a new post. 2. Selects a study category (e.g., Math, Science). 3. Clicks "Post." | 1. App saves the post under the selected category. 2. App tracks study stats by category. |
| View Friends’ Study Feed | 1. User opens the app. 2. Scrolls through the study feed. | 1. App loads and displays friends' study posts. 2. App fetches more posts as user scrolls. |
| React to Study Posts | 1. User sees a friend’s study post. 2. Clicks the reaction button. 3. Selects an emoji. | 1. App adds the reaction to the post. 2. App notifies the original poster. |
| Earn Study Badges | 1. User completes multiple study sessions in a row. | 1. App tracks the study streak. 2. App awards a badge for consistency. |
| Get Study Streak Reminders | 1. User forgets to study for a day. | 1. App sends a notification reminder. |
| Invite Friends to Study Together | 1. User opens the friends list. 2. Selects a friend. 3. Clicks "Invite to Study." | 1. App sends an invite. 2. If the friend accepts, the study session is shared. |
| Set Quiet Hours | 1. User goes to settings. 2. Selects quiet hours. 3. Saves settings. | 1. App blocks notifications during selected times. |
| Use Offline Mode | 1. User opens the app without an internet connection. 2. Logs a study session. | 1. App stores the session locally. 2. App syncs data when the internet is restored. |

StudyBuddy Use Case Diagrams:

<https://lucid.app/lucidchart/a3058b91-7b57-4c16-80ad-0f61b03c663d/edit?viewport_loc=-866%2C-781%2C5191%2C2391%2C0_0&invitationId=inv_4b22e400-d0cf-44c5-a3f2-455bc643b86d>