Brain Point   
(AI study timer)

TEAM 2  
  
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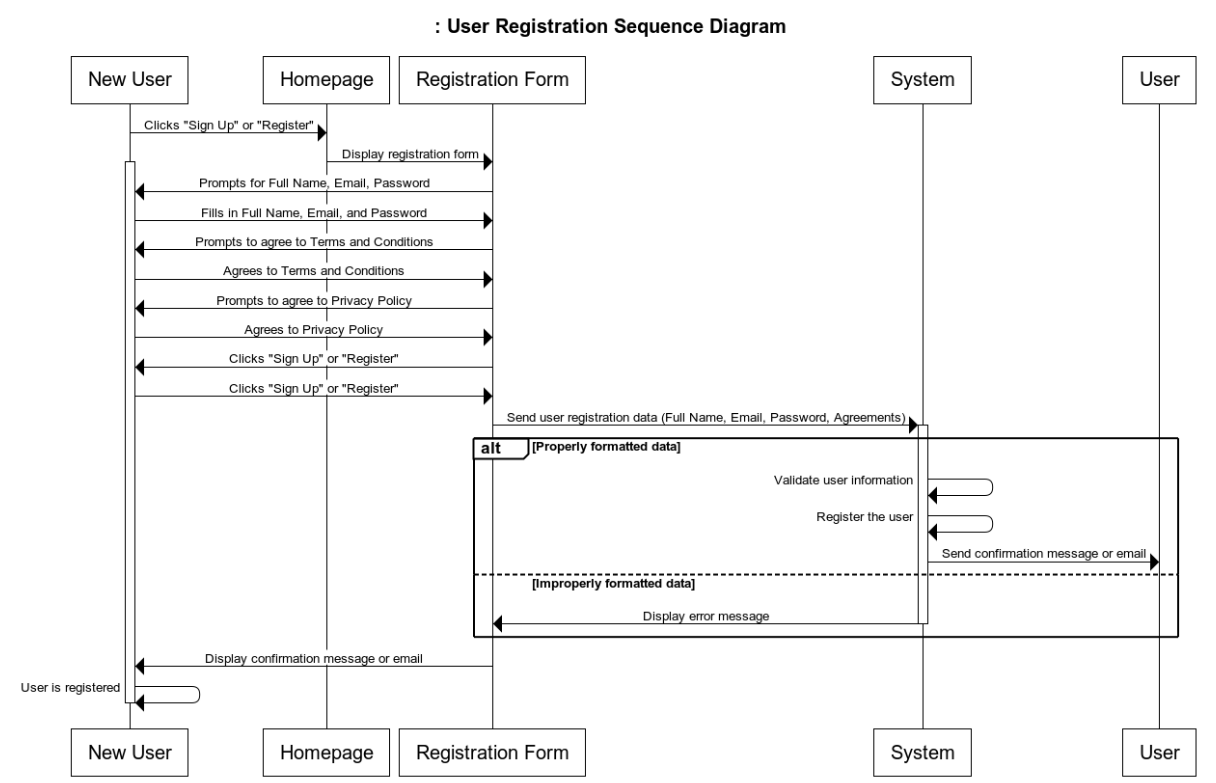
1. Register a New User **Ahmed**
2. User Login **Sameer**
3. Set Study Goals **Zaid**
4. Interact with AI for Study Planning (goal feedback) **Zaid**
5. Show Study Sessions in Calendar **Minhad**
6. Provide Feedback after Study Session **Sameer**
7. 404 page **Minhad**
8. Contact us page **Kaleb**
9. about us page **Ahmed**
10. Subject card **Zaid**
11. Home page **Kaleb**

### **Register a New User**

**USE CASES**

* **Actor**: New User
* **Preconditions**: User is on the homepage and has not registered before.
* **Postconditions**: User is registered and receives a confirmation message or email.
* **Basic Flow**:
  1. User clicks "Sign Up" or "Register" on the homepage.
  2. User fills in Full Name, Email Address, and Password.
  3. User agrees to the Terms and Conditions and Privacy Policy.
  4. User clicks "Sign Up" or "Register".
  5. System validates the information and registers the user.
  6. User receives a confirmation message or email.
* **Alternative Flows**:
  1. If the user provides an improperly formatted email or password, the system displays an error message.

**SEQUENCE DIAGRAM**

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**Test cases**

* **Feature to Be Tested:** User login functionality.
* **Feature Pass/Fail Criteria:**

1. The user inputs correct credentials and is able to log in.
2. The user inputs incorrect credentials and is denied access.

* **Test Procedure:**

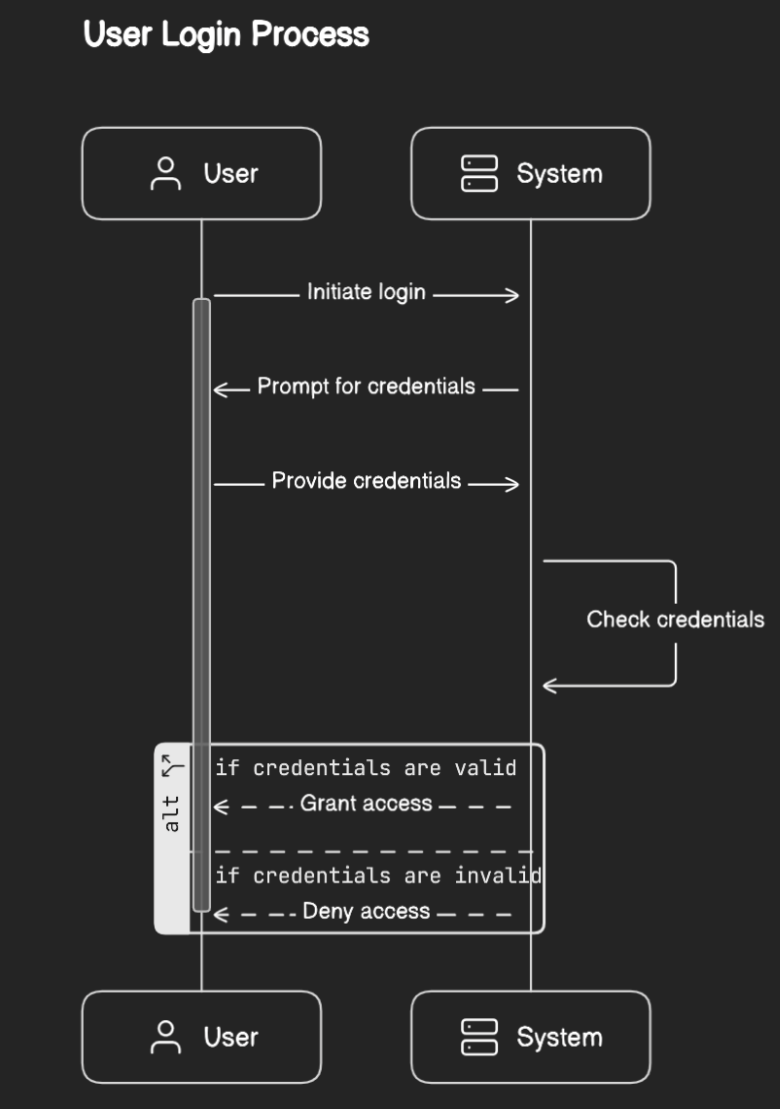
1. Access the login page.
2. Input valid user credentials (e.g., username: johndoe, password: Password123).
3. Click the "Login" button.

### **User Login**

**USE CASES**

* **Actor**: Registered User
* **Preconditions**: User has a registered account.
* **Postconditions**: User is logged into the system.
* **Basic Flow**:
  1. User clicks "Login" or "Sign In" on the homepage.
  2. User enters their registered Email Address and Password.
  3. User clicks "Login" or "Sign In".
  4. System validates the login details.
  5. User is redirected to their dashboard or main page.
* **Alternative Flows**:
  1. If the user enters incorrect login details, the system displays an error message.
  2. User clicks "Forgot Password" and follows the process to reset it.

**SEQUENCE DIAGRAM**

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**TEST CASES**

* **Test-case identifier:** UserLoginTest
* **Feature to be tested:** User login functionality.
* **Feature Pass/Fail Criteria**:
  + The user inputs correct credentials and is able to log in.
  + The user inputs incorrect credentials and is denied access.
* **Test Procedure:**
  + Access the login page.
  + Input user credentials.
  + Check for successful or unsuccessful login message.

### **Set Study Goals (Zaid)**

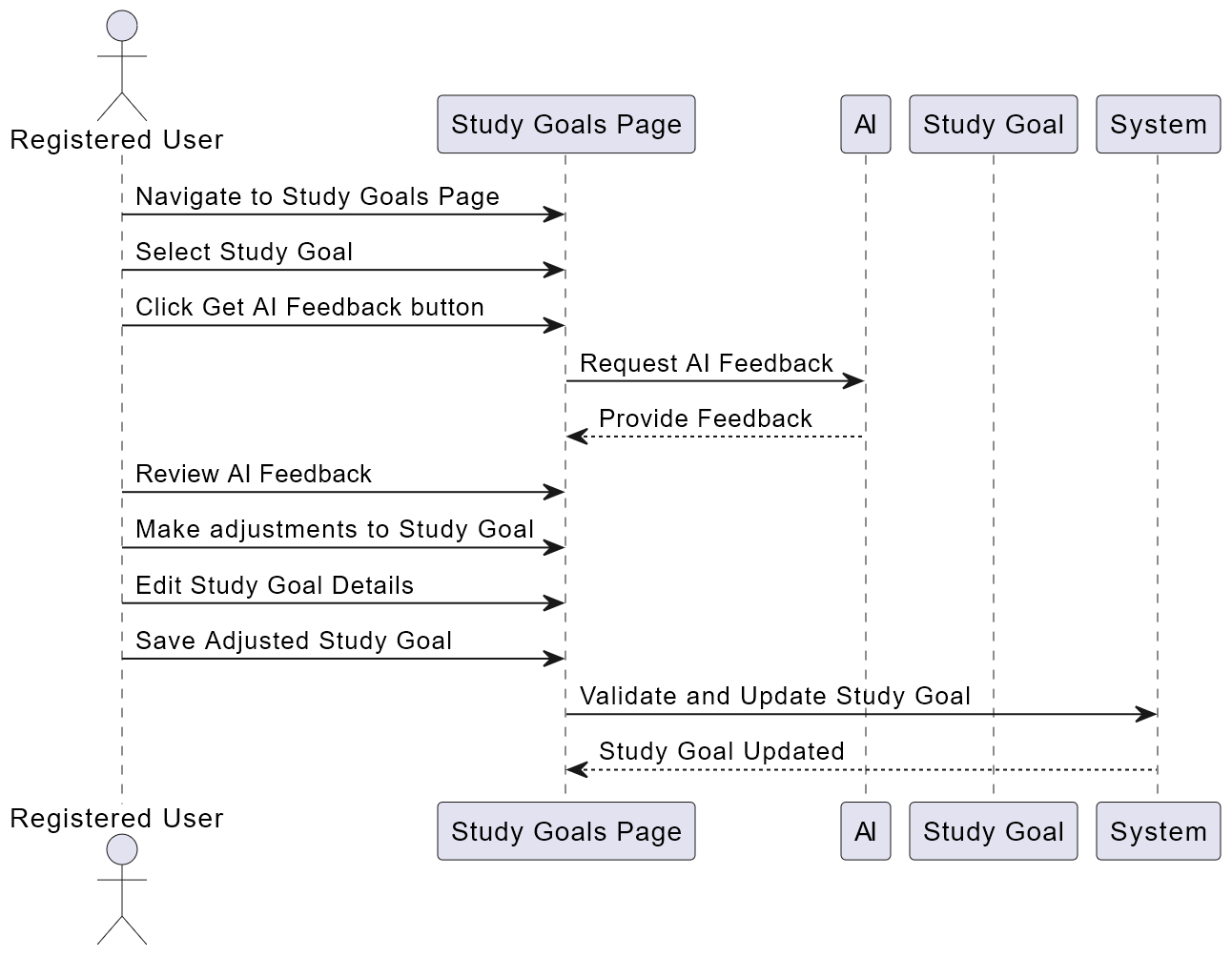
Use Case 1: Setting Study Goals

* Actor: Registered User
* Preconditions: User is logged in and on the study goal-setting page.
* Postconditions: User's study goals are saved in the system.
* Basic Flow:
  1. User navigates to the "Set Study Goals" page.
  2. User selects the subjects or topics they want to study.
  3. User specifies the duration or deadline for each study goal.
  4. User clicks the "Save Goals" button.
  5. System validates and saves the study goals.

Use Case 2: Editing Study Goals

* Actor: Registered User
* Preconditions: User has previously set study goals.
* Postconditions: User's updated study goals are saved in the system.
* Basic Flow:
  1. User navigates to the "Set Study Goals" page.
  2. User edits the existing study goals (e.g., changes subjects or deadlines).
  3. User clicks the "Save Goals" button.
  4. System validates and updates the study goals.

**SEQUENCE DIAGRAM**

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**TEST CASES**

### **Interact with AI for Study Planning ( Zaid)**

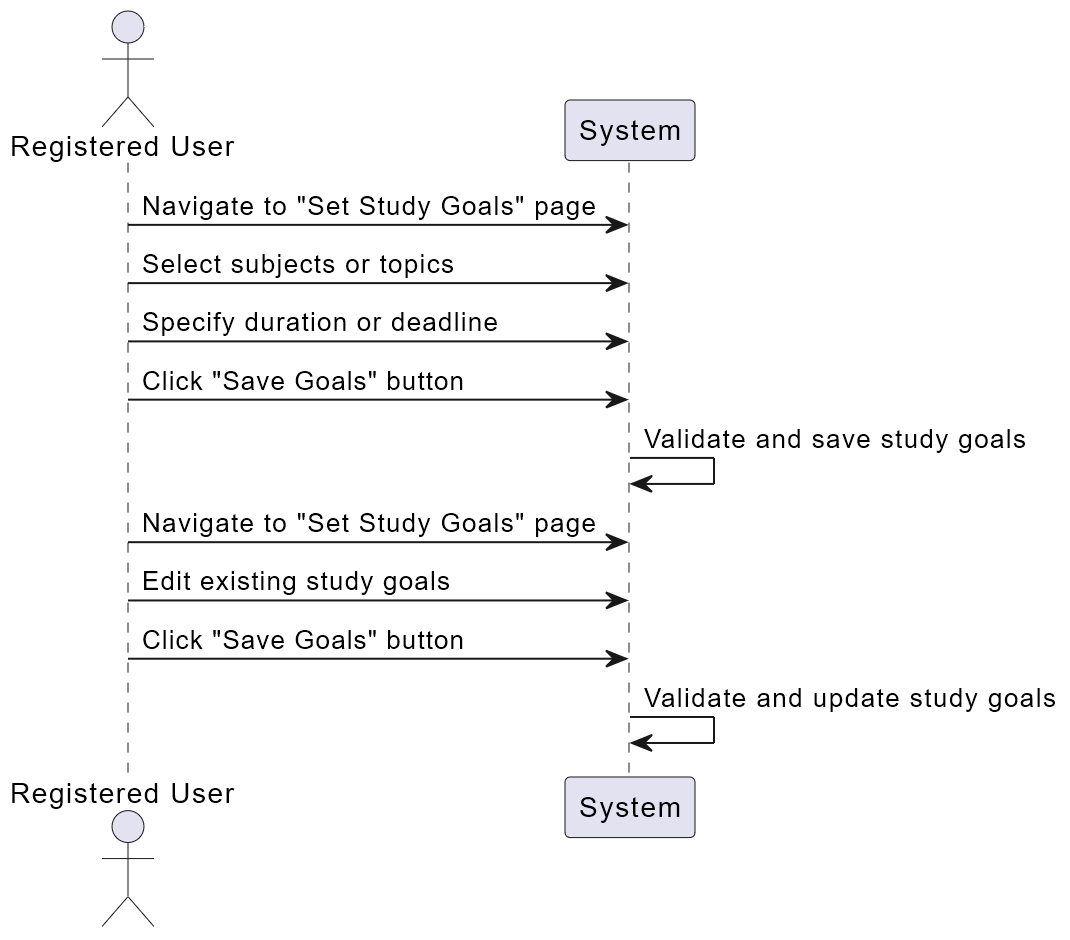
**Use Case 1: Receiving Study Goal Feedback**

* Actor: Registered User
* Preconditions: User has set study goals.
* Postconditions: User receives feedback from the AI regarding their study goals.
* Basic Flow:
  1. User navigates to the "Study Goals" page.
  2. User selects a specific study goal.
  3. User clicks the "Get AI Feedback" button.
  4. The AI provides feedback on the selected study goal (e.g., suggestions for improvement, study resources, or time management tips).

**Use Case 2: Adjusting Study Goals based on Feedback**

* Actor: Registered User
* Preconditions: User has received feedback from the AI.
* Postconditions: User adjusts their study goals based on the AI's feedback.
* Basic Flow:
  1. User reviews the feedback received from the AI.
  2. User decides to make adjustments to the study goal.
  3. User edits the study goal details based on the AI's suggestions.
  4. User saves the adjusted study goal.
  5. System validates and updates the study goal.

**SEQUENCE DIAGRAM**

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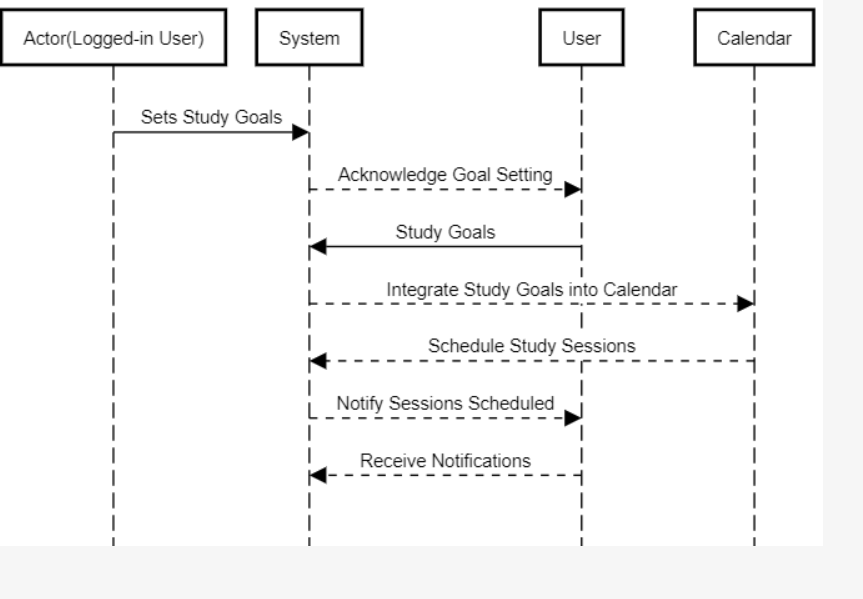
**TEST CASES**

### **Schedule Study Sessions in Calendar**

**USE CASES**

* **Actor**: Logged-in User
* **Preconditions**: User is logged in, has set study goals
* **Postconditions**: Study sessions are scheduled in the user's Calendar.
* **Basic Flow**:
  1. User sets study goals in the "Cards (Goals) for User Subjects" page.
  2. System integrates info into Calendar.
  3. Study sessions are automatically created in the user's Calendar based on their goals.
  4. Users receive notifications for upcoming study sessions.

**SEQUENCE DIAGRAM**

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**TEST CASES**

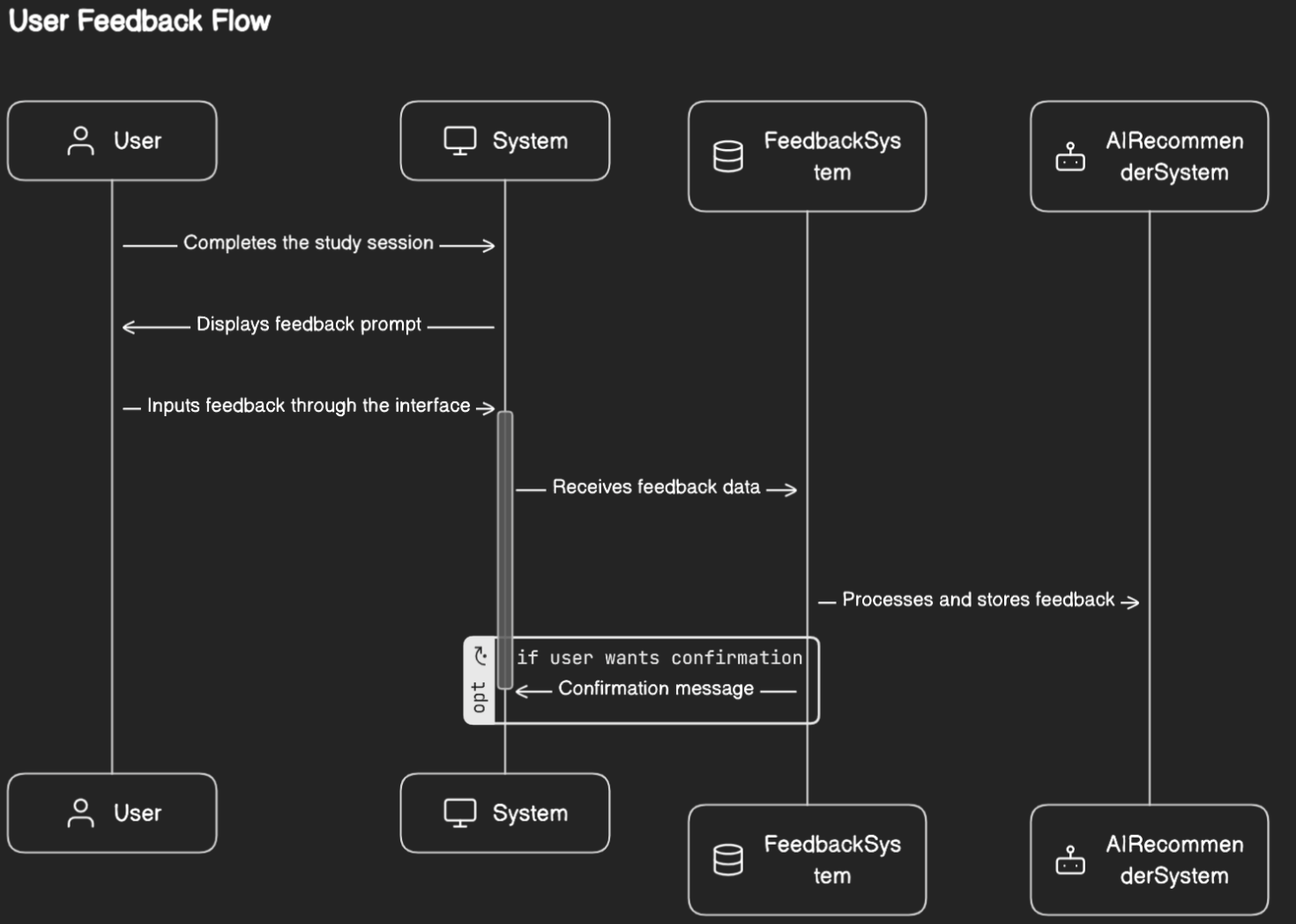
* **feature to be tested:** Study sessions are added to the calendar
* **Feature Pass/Fail Criteria:**
  + - The user is able to create study goals
    - The calender is able to implement the goals
    - The calender is able to remind users of their study sessions
* **Test Procedure:**
  + - Create a study goal
    - Acknowledge that is was implemented into the calender
    - Wait until the scheduled time
    - Verify that the calender reminds the user about the scheduled session

### **Provide Feedback after Study Session**

**USE CASES**

* **Actor**: Logged-in User
* **Preconditions**: User has completed a study session.
* **Postconditions**: User's feedback is saved and analyzed for improvements.
* **Basic Flow**:
  1. After a study session, the system prompts the user for feedback.
  2. User provides feedback using a star rating system or by typing in their thoughts.
  3. System saves and analyzes the feedback to improve future recommendations.

**SEQUENCE DIAGRAM**

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TEST CASES**

* **Test-case identifier:** PostStudySessionFeedbackTesting
* **Feature to be tested:** Feedback submission functionality.
* **Feature Pass/Fail Criteria:**
  + - The feedback interface is correctly displayed after the study session.
    - The user is able to submit feedback of how well they did using the star rating and text input.
    - The feedback is correctly saved in the system.
    - The system updates the recommendations based on the feedback.
* **Test Procedure:**
  + - Complete a study session.
    - Interact with the feedback prompt.
    - Submit a variety of feedback (only star rating, star rating with text, etc.).
    - Verify that the feedback is saved and reflected in future recommendations.

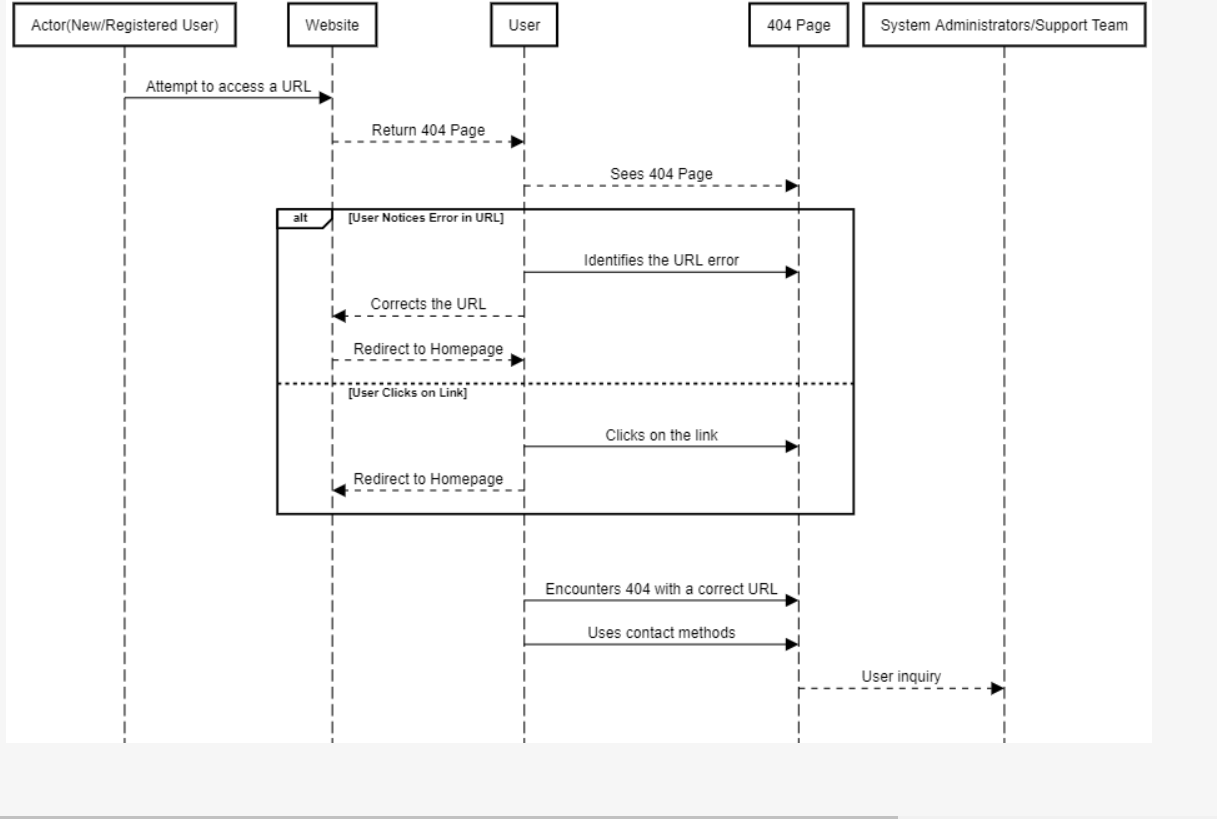
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### **404 Page**

**USE CASES**

* **Actor**: New or Registered User
* **Preconditions**: User is interested in the software or already has a registered account
* **Postconditions**: User can check the the url for correctness or click on the link shown and then be redirected to the homepage or otherwise contact the system administrators or support team
* **Basic Flow**:
  1. User tries to access website but incorrectly types the url
  2. User sees the 404 page and clicks on the link to be sent back to the homepage or notices the error in the url and manages to go to where they wanted
* **Alternative Flows**:
  1. User tries to access the webpage but encounters the 404 page despite having the correct url
  2. User uses the contact methods provided to inquire about the problem

**SEQUENCE DIAGRAM**

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**TEST CASES**

* **Feature to Be Tested:** 404 page functionality.
* **Feature Pass/Fail Criteria:**
  + Pass: The user encounters the 404 page and is lead back to the homepage
  + Fail: The user is unable to be redirected to the homepage
* **Test Procedure:**
  + Attempt to access a page
  + Encounter the 404 error page
  + Select the link shown on screen to go back to the homepage
  + Arrive at the homepage

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### **Contact us page**

**USE CASES**

* **Actor: Registered User**
* **Preconditions:** User has a registered account.
* **Postconditions**: User can contact the system administrators or support team.
* **Basic Flow:**

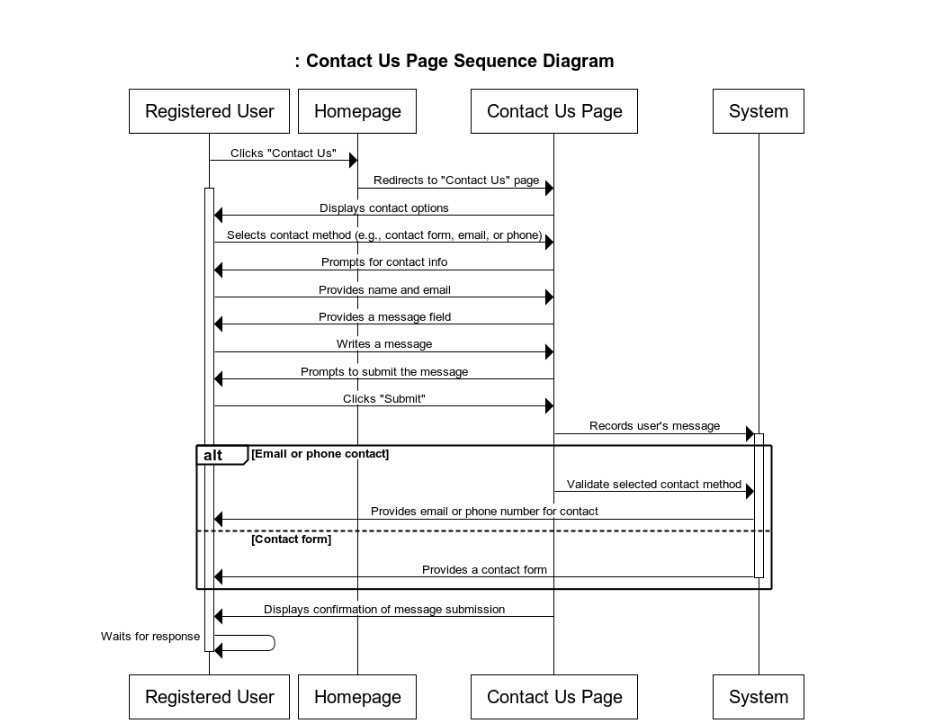
1. User clicks "Contact Us" on the homepage.
2. User selects a contact method (e.g., contact form, email, or phone).
3. User provides their contact info (name and email).
4. User writes a message.

User submits the message.

* **Alternative Flows**:

1. If the user faces issues accessing the "Contact Us" page, they can use provided email or phone contact options.
2. If required information is missing, the system shows an error message.
3. If a response is needed, the system forwards the inquiry to the relevant department.
4. Use Case: About Us Page

**SEQUENCE DIAGRAM**

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**TEST CASES**

* **Feature to Be Tested:** Contact Us functionality.
* **Feature Pass/Fail Criteria:**
  + Pass: The user successfully contacts the system administrators or support team.
  + Fail: The user faces an issue or is unable to contact the system administrators or support team.
* **Test Procedure:**
  + Access the homepage.
  + Click the "Contact Us" link.
  + Select a contact method (e.g., contact form, email, or phone).
  + Provide your name, email, and a message.
  + Click the "Submit" or "Send" button.

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### **About us page**

**Use Cases**

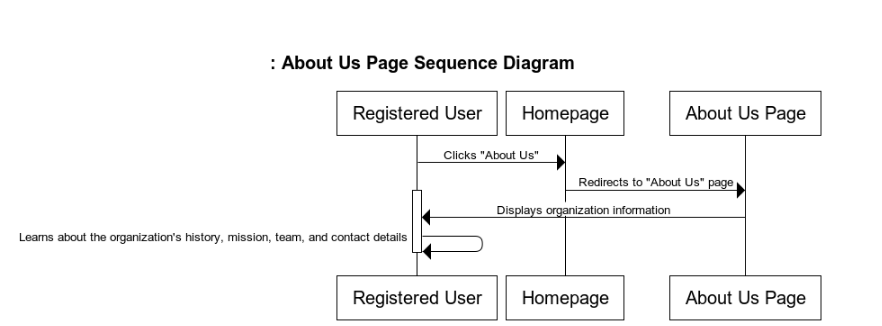
* **Actor:** Registered User
* **Preconditions:** User has a registered account.
* **Postconditions:** User can learn about the organization behind the website.
* **Basic Flow:**

1. User clicks "About Us" on the homepage.
2. The system displays information about the organization, including history, mission, team, and contact details.

* **Alternative Flows:**

1. If the user has specific questions, they may visit the "Contact Us" page to seek additional information.
2. These simplified use cases maintain a similar format to the one you provided for the "User Login" use case while focusing on the essential steps for each page.

**SEQUENCE DIAGRAM**

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**TEST CASES**

* **Feature to Be Tested:** About Us functionality**.**
* **Feature Pass/Fail Criteria:**

1. Pass: The user can successfully access and learn about the organization or company behind the website.
2. Fail: The user encounters issues or is unable to access information about the organization.

**Test Procedure:**

1. Access the homepage.
2. Click the "About Us" link.
3. The system displays the "About Us" page.
4. Read information about the organization, including its history, mission, team, and contact details.

### **Subject card**

**Subject Card**

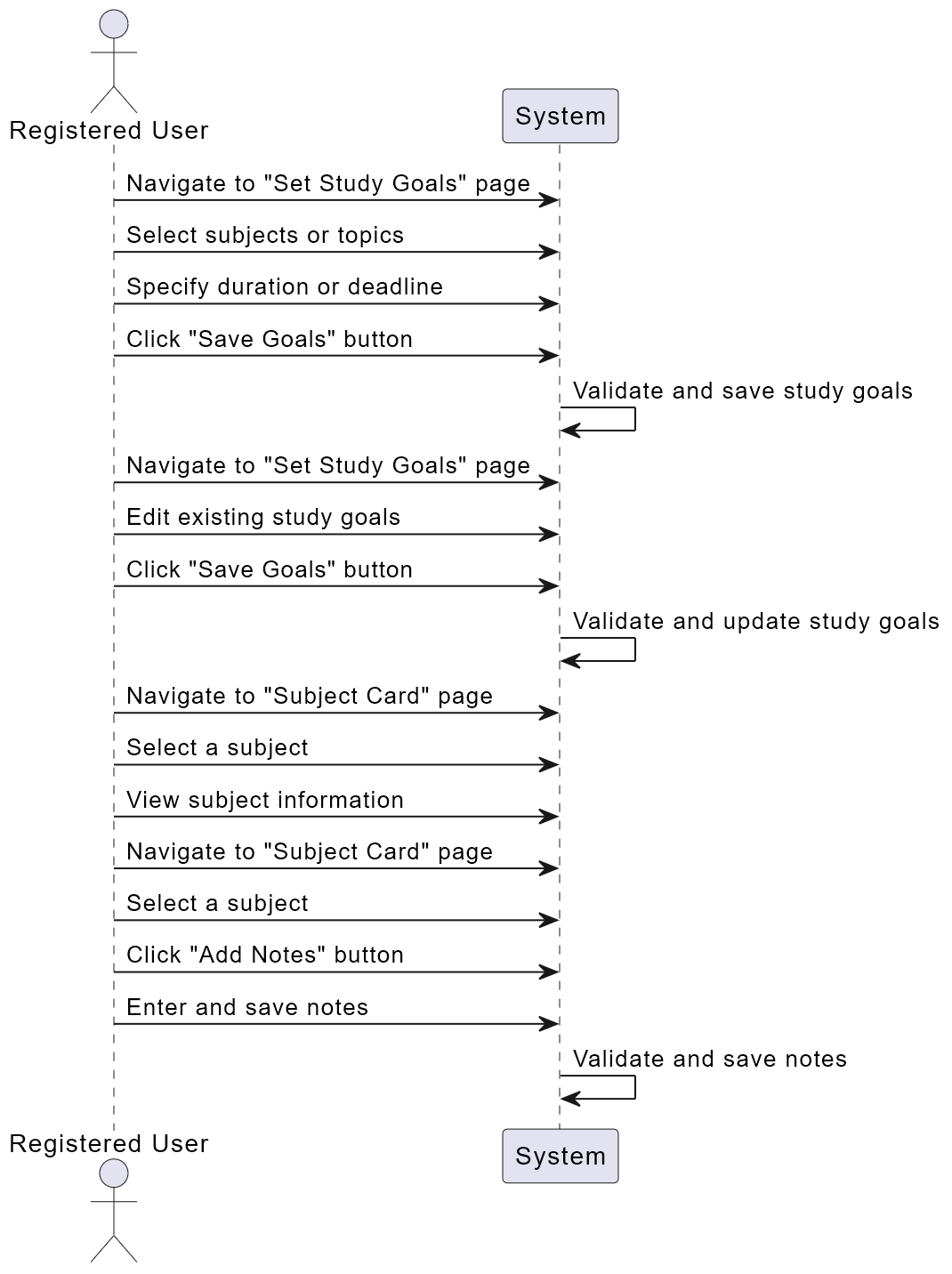
Use Case 1: Viewing Subject Card

* Actor: Registered User
* Preconditions: User is logged in and on the subject card page.
* Postconditions: User can access information about the selected subject.
* Basic Flow:
  1. User navigates to the "Subject Card" page.
  2. User selects a subject from the list.
  3. User views information about the selected subject (e.g., description, study resources, progress, and related goals).

Use Case 2: Adding Notes to Subject Card

* Actor: Registered User
* Preconditions: User is logged in and on the subject card page.
* Postconditions: User's notes are added to the selected subject card.
* Basic Flow:
  1. User navigates to the "Subject Card" page.
  2. User selects a subject from the list.
  3. User clicks the "Add Notes" button.
  4. User enters and saves notes about the subject.
  5. System validates and saves the notes.

**SEQUENCE DIAGRAM**

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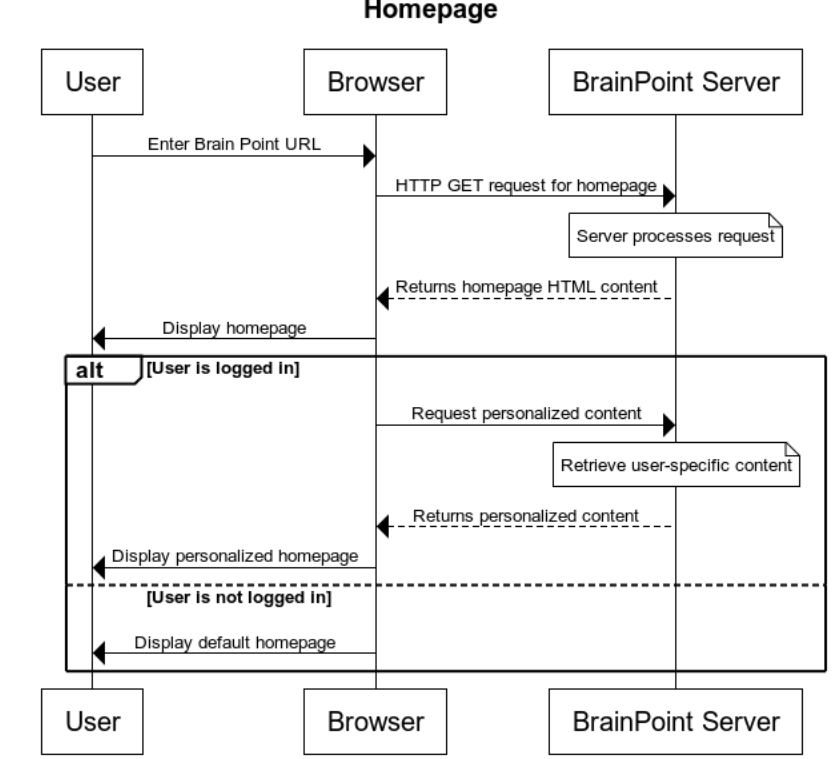
**TEST CASES**

### **Homepage**

**USE CASES**

* **Actor**: User (can be both registered and unregistered)
* **Preconditions**: User has access to the internet and a web browser.
* **Postconditions**: User views the homepage of Brain Point.
* **Basic Flow**:
  1. User types in the Brain Point URL or selects a bookmark to navigate to the website.
  2. The system presents the Brain Point homepage.
  3. User sees various sections including "Login", "Register", "About Brain Point", "Features", and "Contact Us".
  4. User selects an option to navigate from the homepage to another part of the website.
* **Alternative Flows**:
  1. If Brain Point is experiencing technical issues, the user sees a maintenance or error page.
  2. If the user is already logged in, the homepage displays personalized information such as scheduled study sessions and goal progress.

**SEQUENCE DIAGRAM**

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**TEST CASES**

* **Test-case identifier:**HomepageAccessibilityTest\_BrainPoint
* **Feature to be tested:** Homepage access and functionality on Brain Point.
* **Feature Pass/Fail Criteria:**
  + - Brain Point's homepage should load without errors.
    - All interactive elements on the homepage are functional and take the user to the appropriate sections.
    - Personalized content should appear for users who are logged in.
    - The homepage should be correctly formatted across different devices and browsers.
* **Test Procedure:**
  + - Enter the Brain Point URL in multiple browsers to check for compatibility.
    - Test all interactive elements on the homepage for correct functionality.
    - Log in with a user account to verify that personalized content is correctly displayed.
    - Measure the homepage's loading speed to confirm it's within acceptable parameters.
* **Special Requirements:**
  + - Testing tools for cross-browser compatibility to ensure consistent user experience across different web browsers.
    - Tools to test responsive design, ensuring the homepage looks and functions well on various devices.