CSE 115A – Introduction to Software Engineering

Test Plan and Report
Product Name: Chaptre
Date: 3/12/2025

System Test Scenarios

System test scenarios based on the user stories and Sprints 1-4 acceptance criteria.

Sprint 1

Scenario 1: User Account Creation (Pass/Fail) — PASS

1. Open Chaptre web application.
2. Navigate to the "Sign Up" page.
3. Enter name = "Test User"
4. Enter email = "testuser@example.com"
5. Enter password = "TestPass123"
6. Click on "Sign Up"
7. Verify that the system successfully creates an account and redirects to the homepage.

Scenario 2: User Login (Pass/Fail) — PASS

1. Open Chaptre web application.
2. Navigate to the "Login" page.
3. Enter email = "testuser@example.com"
4. Enter password = "TestPass123"
5. Click on "Login"
6. Verify that the user is logged in and redirected to their dashboard.

Scenario 3: Profile Customization (Pass/Fail) — PASS

1. Login to Chaptre with valid credentials.
2. Navigate to "Profile" section.
3. Enter a bio in the designated field.
4. Click "Save."
5. Verify that the bio is successfully saved and displayed.

Sprint 2

Scenario 4: Profile Picture Customization (Pass/Fail) — PASS

1. Login to Chaptre with valid credentials.
2. Navigate to "Profile" section.
3. Click on the profile picture
4. Choose a file of a picture
5. Verify that the profile picture successfully displays on your profile with chosen picture

Scenario 5: Story Submission (Pass/Fail) —PASS

1. Login as an author.
2. Navigate to "Submit Story" section.
3. Enter title, content, tags, and upload a cover image.
4. Click "Publish."
5. Verify that the story appears in the public feed.

Scenario 6: Reader View (Pass/Fail) — PASS

1. Login as a reader.
2. Navigate to a published story.
3. Click "Read Story."
4. Verify that the story opens in a readable format.

Sprint 3

Scenario 7: Search Functionality (Pass/Fail) — PASS

1. Navigate to the homepage.
2. Use the search bar to find a story by title, author, or genre.
3. Verify that the search results accurately display relevant stories.

Scenario 8: Draft Saving (Pass/Fail) — PASS

1. Login as an author.
2. Begin writing a story but do not publish it.
3. Navigate to profile page
4. Verify that the draft appears and is retrievable under "Drafts" section.

Sprint 4

Scenario 9: Favoriting a Story (Pass/Fail) — PASS

1. Login as a reader.
2. Navigate to a published story.
3. Click "Favorite"
4. Verify that the story appears in the "Saved Books" sidebar on the homepage.

Scenario 10: Commenting and Rating a Story (Pass/Fail) — PASS

1. Login as a reader.

2. Navigate to a published story.
3. Select a chapter.
4. Provide a star rating and enter text into the comment box.
5. Verify that the comment and rating are displayed properly under the chapter.

Unit Tests

Test Suite Overview:

Currently, we have a limited set of automated unit tests covering basic backend functionality. The following tests are implemented:

- **Root Endpoint:** Ensures the backend server is running and returns a welcome message.
- **S3 Endpoint:** Tests retrieval of a signed URL for image uploads.
- **Authors Endpoints:**
  - Retrieves a list of authors.
  - Ensures an error is returned when attempting to update an author's profile picture URL without providing the required data.
- **Books Endpoints:**
  - Retrieves a list of books.