EECS 2311 Z

Team Number : 8

Student: Kashif Syed

Student Number: 214404529

March 24th, 2025

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| --- | --- | --- |
| User Story | Main Developers | Assigned Tester |
| Creating a group | Haaris / Kashif | Farzin |
| Viewing course Schedules | Marko Zovic | Lukasz / Kashif |
| Chat | Farzin | Abdullah |
| Create an account | Lukasz / Abdullah | Marko / Haaris |

Manual Test Cases

Test Case 1: Search for a Course Outside Lassonde/Bethune

Steps:

Navigate to the course search page.

Enter "GER 1000" in the search field.

Click "Search."

Expected Result: Display error message: "No courses match the specified criteria."

Test Case 2: Search for a Valid Lassonde/Bethune Course

Steps:

Navigate to the course search page.

Enter "EECS 1001" (Science/Engineering course).

Click "Search."

Expected Result: Course details (code, schedule, instructor) are displayed.

Test Case 3: Search for Non-Existent Course

Steps:

Enter random characters (e.g., "XYZ 9999") into search fields.

Click "Search."

Expected Result: Error message: "No courses match the specified criteria."

Test Case 4: Access /schedule Without Login

Precondition: User is logged out.

Steps:

Manually enter /schedule in the browser URL.

Press Enter.

Expected Result: Redirect to login page.

Actual Result: Bug: Schedule page loads without authentication.

Test Case 5: Run Web Scraper

Prerequisites:

Python 3.x installed.

Latest Google Chrome and Chrome WebDriver.

Dependencies: selenium, beautifulsoup4.

Steps:

Execute the scraper script.

Review output data.

Expected Result: Valid course entries with accurate details.

Actual Result: Bug: First entry shows placeholder text: "course: course, time: time."

Bug Reports

Bug Report 1: Unauthorized Access to Schedule Page

ID: BR-KF-001

Reported By: Kashif

Date: March 25, 2024

Component: Authentication Module (v2.0.0)

Severity: High

Priority: Critical

Description:

Steps to Reproduce:

Log out of the application.

Navigate directly to /schedule.

Observed Behavior: Schedule page is accessible without login.

Expected Behavior: Redirect to login page.

Suggested Fix: Implement route authentication middleware to validate user sessions.

Bug Report 2: Web Scraper Placeholder Data

ID: BR-KF-002

Reported By: Kashif

Date: March 25, 2024

Component: Web Scraper (v2.0.0)

Severity: Medium

Priority: Medium

Description:

Steps to Reproduce:

Run the scraper with valid dependencies.

Inspect the first entry in the output.

Observed Behavior: Placeholder text "course: course, time: time" appears.

Expected Behavior: All entries contain valid course/time data.

Suggested Fix: Add validation to skip empty rows during data extraction.

Refactoring Recommendations

1. Modularize Complex Functions

Issue: The SchedulePage component handles data fetching, processing, and rendering.

Solution:

Split into useCourseSchedule (custom hook for data logic).

Create child components (DaySchedule, MeetingBlock) for UI rendering.

2. Optimize Data Processing

Issue: Manual iteration over courseData.Hours leads to redundancy.

Solution: Replace with reduce() for efficient mapping of meetings by day.

3. Dynamic Day Mapping

Issue: Hardcoded dayMap object for day names.

Solution: Implement getDayName(index) to dynamically generate day labels.

4. Simplify CSS Logic

Issue: getMeetingClass() function complicates JSX.

Solution: Inline conditional classes (e.g., className={isLab ? "lab-style" : ""}).

5. Enhanced Error Handling

Issue: Generic error messages lack user guidance.

Solution: Add retry buttons or contact support links in error UI.