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Alchemy LMS

07.07.2025

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TechBees

19th May Batch

QE Full Stack domain

IBM, BCIT

Overview

This testing project focuses on the **Alchemy LMS** website, available at https://alchemy.hguy.co/lms/, which is a demo e-learning platform. The website offers a

structured platform for online learning, with functionalities such as user login, course completion, lessons, and progress tracking.

We used **Selenium** with **Cucumber** to automate and validate the key functionalities across different features and flows.

Deliverables

1. **10 Gherkin feature files** covering core workflows of the Alchemy LMS website.
2. Corresponding **step definition files** using Selenium interactions.
3. Individual **test case templates** documenting each scenario with expected and actual results.
4. A working demonstration of the automated test case execution, showcasing the interaction with the site across all test scenarios.

Project Highlights

Frameworks Used:

- Selenium
- Cucumber (BDD Framework with Gherkin-style test cases)

Agile Approach:

- Test scenarios broken down into 10 individual **feature files using Gherkin**.
- Regular tracking and sprint planning done via **JIRA**.
- Code collaboration managed via **GitHub**.

Test Coverage:

- Home page content
- Home page navigation bar
- Contact page
- About page
- My Account page
- Successful Login
- Unsuccessful Login
- All Courses page content
- Topic completion in Social Media Marketing course
- Lesson completion in Email Marketing Strategies course

- Course completion for Content Marketing course

Workflow Diagram