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Project2WebTestFrameWork

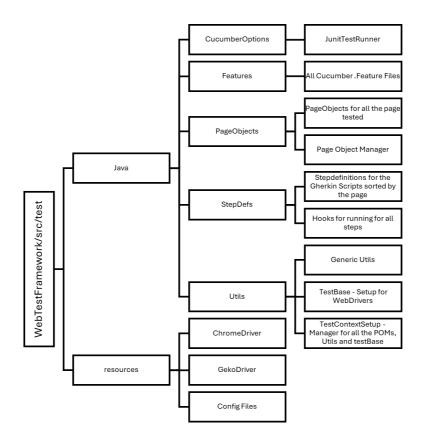
Overview

This project aims to create and implement a automated testing framework for the most common user journeys for the BookCart web application (https://bookcart.azurewebsites.net/). This framework was created using a BDD drive approach, using selenium and structured using the Page Object Model format.

Framework Architecture and Setup

- Cucumber: For writing BDD test scenarios in Gherkin syntax. These are located WebTestFramework\src\test\java\features
- Selenium Web Driver: For implementing automated web tests.
- JUnit: For writing and executing tests. These are located WebTestFramework\src\test\java\stepDefs
- Cucumber Reports: For test reports.
- GitHub Actions: For integrating tests with a CI pipeline and automating test execution.
- Maven: This manages all the dependencies and helps run all the tests. The pom file is located WebTestFramework\pom.xml

Project Structure



Prerequisite

- Java JDK 21: Ensure the Environment variables are set correctly
- Maven: Ensure Maven is installed and its PATH is set
- Git: install git for cloning the repository
- A compatible web browser. All test created by me work for Chrome and FireFox

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Setup instructions

1. Clone the repository

```
git clone https://github.com/Sturgeon2962-
SpartaGlobal/Project2WebTestFrameWork.git
git cd <RepoName>
```

RepoName should be the name of the repository you created

2. Install dependencies and build

```
mvn clean install
```

This will install the dependencies defined by the pom.xml file

Running Tests

To run all test use

mvn test

To run a specific file or test you can use tags, the current tags are

Feature File	Individual Test
@AddToCart	@SingleBook
	@MultipleBooks
@BookSearch	@ValidSearch
	@InvalidSearch
@CheckoutProcess	@ValidPurchase
	@InvalidPurchase
@UserLogin	@ValidUser
	@InvalidUser
	@NoPassword
@UserRegistration	@NewUserRegistration
	@InvalidUserRegistration
	@InvalidPassword

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To run using tags use the following:

```
mvn test -Dcucumber.filter.tags="@Tag"
```

To run using single feature file

```
mvn test -Dcucumber.features="src\test\java\features\Filename.feature"
```

How to contribute

Help me improve this testing framework!

- 1. Fork the repository
- 2. Create a new branch for your feature
- 3. Create your tests:
 - Write your code. If you can contiue using the BDD style and the Page Object Models.
 - Create a new feature files and stepdefs if they are necessary.
 - Run locally before pushing to Github
- 4. Push to github with an appropriate message, with clear and concise information about what you have added
- 5. Create a Pull Request to the original Repository

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