**Automation Testing Framework**

**Overview**

The Testing Framework, meticulously crafted by Wilco Tech Solutions, stands as a sophisticated testing solution geared towards the automation of UI and API tests for the Spartan application. While its primary focus is on Spartan, the framework extends its capabilities to encompass additional web applications, showcasing advanced UI automation features with augmented assertion capabilities. Developed as a BDD (Behavior-Driven Development) framework, it leverages Maven, Java, Selenium, and JUnit to deliver a robust and extensible testing solution.

**Key Features**

* **UI and API Automation for Spartan Application:** The framework excels in automating UI and API tests for the Spartan application, ensuring thorough coverage of functional and integration aspects.
* **Advanced UI Automation for Diverse Web Applications:** Beyond Spartan, the framework demonstrates its prowess by automating advanced UI features on various web applications, showcasing its versatility.
* **BDD Framework with Maven, Java, Selenium, and JUnit**: Developed using industry-standard technologies, the framework follows the principles of BDD, providing a structured and easily understandable testing approach.
* **Parallel Execution Support:** Recognizing the importance of efficiency, the framework enables parallel execution for different test features, optimizing testing time and resources.
* **Detailed Reporting for Informed Analysis:** The framework generates comprehensive and detailed reports after each test run, empowering stakeholders with valuable insights for analysis and decision-making.
* **Comprehensive CI/CD Pipeline with GitHub Actions:** The framework includes a robust CI/CD pipeline leveraging GitHub Actions. This pipeline automates the build, test, and deployment processes, ensuring a seamless and continuous integration environment.

**Getting Started**

**Prerequisites**

* Java 21
* Maven
* Selenium WebDriver 4
* JUnit 4

**GitHub Actions Integration**

The Spartan Testing Framework seamlessly integrates with GitHub Actions, automating test execution upon selecting the "Spartan Tests" workflow.

**Triggering Tests using GitHub Actions:**

1. Navigate to the "Actions" tab on your GitHub repository.
2. Select the "Spartan Tests" workflow.
3. Click on the "Run workflow" button.
4. A screenshot of a computer

   Description automatically generatedMonitor the progress and review detailed reports in the Actions tab.

**Notes**

We value your contributions and appreciate the collaborative spirit. If you have suggestions, identified issues, or would like to contribute to the Testing Framework, please reach out to info@wilcotechsolutions.com.