

QA Automation Assignment

Execution Time : 1.5 Days

Objective: Create automated tests for a website and integrate them with a CI pipeline that triggers the tests on a merge to the **dev** branch.

Instructions:

1. Automation:

- Automate the following test cases with assertions for the website [<https://automationexercise.com/>]:
 1. Login functionality.
 2. Form submission (e.g., contact form or registration).
 3. Search functionality
 4. Scroll down and add third last product to Cart
- Use any UI automation tool (Selenium, Cypress, Playwright, etc.). Playwright will be preferred.
- Ensure the tests cover edge cases, including validation and negative scenarios.

2. CI Pipeline:

- Set up a CI pipeline using (like GitHub Actions, Jenkins, etc.)
- The pipeline should trigger automated tests every time a new commit is merged into the **dev** branch.
- You can use any public repo for simulating a merge action on GitHub

For Example:

Whenever a merge occurs in the [React: RealWorld Example App](#) repository, the CI/CD pipeline is triggered to run tests on <https://automationexercise.com/>

- Provide the CI configuration file (Jenkinsfile, **.yaml** file, etc.).
- Include instructions for setting up and configuring the CI pipeline.

3. Reporting:

- Configure test reports to be generated after every test run.
- Ensure that the link of test results which includes logs and screenshot is made available through the pipeline.

4. Deliverables:

- Automated test scripts.
- CI configuration file.
- Documentation for setting up the project locally and running tests.
- Pipeline setup steps and how to access reports.

5. Share your automation script code on github repo.

Evaluation Criteria:

- Code quality and structure of test scripts.
- Effectiveness of test cases (covering critical user flows, handling errors and assertions).
- Proper integration with CI, including successful test triggers on merge.
- Clear documentation.