

API Automation Framework

Requirement 5 From the Manager (The DEMO)

Subject: Integrate Framework with GitHub Actions for CI/CD

Hi Team,

We have an important demo of our framework in the coming days, and to showcase its maturity we need to integrate it with GitHub Actions.

This will allow us to run tests automatically on every commit/PR and also on a scheduled basis

Scope of Work

1. GitHub Actions Workflow

- Create a workflow file under `.github/workflows/ci.yml`.
- Configure it to build the Maven project and run our TestNG suite.
- Ensure the environment parameter is passed in execution (e.g., `-Denv=qa`).

2. Archive Reports

- After execution, archive the Surefire Reports (HTML/XML) as build artifacts.
- This ensures test evidence is available even after the job finishes.

3. Parameterized Execution

- Allow passing environment parameters (`qa`, `dev`, `uat`) dynamically via workflow dispatch inputs.

- Example:

```
mvn clean test -DsuiteXmlFile=testng.xml -Denv=qa
```

4. Scheduled Job

- Add a cron-based schedule to run the suite nightly at midnight IST.
- This ensures regression runs are triggered automatically.

Please complete this integration as part of Requirement 5 so we can showcase our framework's CI/CD readiness in the demo.

Thanks,
Your Manager