

Testing Documentation

Your Project Name

September 2, 2025

1 Overview

This document outlines the testing process for the project. All new code is pushed to the `testing` branch before being merged into `main`.

2 Branching Strategy

- All development is done in feature branches.
- Changes are pushed to the `testing` branch for automated testing.
- Once tests pass, a pull request (PR) is opened into `main`.
- The PR requires approval from at least two team members before merging.

3 Testing Workflow

- Unit tests are written using **JUnit** and **Mockito**.
- Mock data is defined specifically for each unit test.
- Tests are run automatically when code is pushed to the `testing` branch.
- If tests fail, the code is refactored and pushed again.

4 Code Coverage

- Code coverage is generated using **JaCoCo**.
- Coverage reports are uploaded to **Codecov** through the CI workflow.
- A coverage badge is displayed to track the status of tests.

5 Deployment

- Once PR is approved and merged into `main`, the code is deployed to **Azure**.

6 Additional Notes

- Ensure all new features include unit tests.
- Review code coverage for critical modules before deployment.