

Automation Testing Plan Sample for Agile Teams

1. Overview

This document outlines the automation testing strategy for the **[Project Name]** Agile Team to ensure high-quality software delivery in each sprint cycle.

2. Objectives

- Increase test coverage and ensure quality in fast development cycles.
- Automate repeatable, critical, and time-consuming test scenarios.
- Provide rapid feedback to the development team.

3. Scope

- Modules: [List modules/components to be covered]
- Test Types: Unit tests, Integration tests, UI (End-to-End) tests, API tests
- Browsers/Platforms: [List supported browsers/platforms]

4. Automation Tools & Frameworks

Test Level	Tool/Framework
Unit	[e.g., JUnit, NUnit, Jasmine]
API	[e.g., Postman, RestAssured]
UI	[e.g., Selenium WebDriver, Cypress, Playwright]
CI/CD	[e.g., Jenkins, GitHub Actions]

5. Automation Approach

1. Identify and prioritize test cases for automation during sprint planning.
2. Develop and maintain modular, reusable test scripts.
3. Integrate automated tests into the CI/CD pipeline.
4. Review automation results during Daily Standup and Sprint Review.

6. Test Data Management

- Use synthetic test data for independent, repeatable runs.
- Refresh test data regularly.
- Automate test data provisioning as part of test execution.

7. Execution & Reporting

- Test scripts are executed automatically on every code commit and nightly build.
- Test results are published to [Tool/Platform name].

- Track metrics: pass/fail rates, defect leakage, and code coverage.

8. Roles & Responsibilities

- **QA Engineer:** Develop and maintain automation scripts, test reporting.
- **Developer:** Assist in test script development and unit test automation.
- **Product Owner:** Approve test scenarios and review results.

9. Maintenance

- Review and update tests every sprint as per changing requirements.
- Refactor obsolete or flaky test scripts.

10. Risks & Mitigations

Risk	Mitigation
Test suite becomes unstable/flaky	Regular review and maintenance of scripts
Insufficient coverage	Map stories/requirements to test cases

11. Approvals

- QA Lead: _____ Date: _____
- Product Owner: _____ Date: _____