

Agile Test Strategy Template – Example

Agile Test Strategy for Positive Charge Software Project

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Introduction

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This document outlines the Agile Test Strategy for Positive Charge software project, which aims to enhance our development and testing processes. The primary focus is on maximizing test efficiency, optimizing changing feature releases, and enhancing test planning for iterative releases.

Scope	Focus on the test strategy document
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The purpose of the test strategy document is to define the testing approach, objectives, and schedule to ensure the quality and reliability of the new software features.

Objectives

Objective Area	Component and Feature Test Cases
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- Efficiently create test cases
- Reduce time changing feature availability updates
- Improve test planning with changing scope
- Use efficient management features
- Implement gateway integration

Out of Scope Items	Focus on the test strategy document
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- Legacy system integration
- Reliability of environments

Testing Approach

Types of Testing	Functional, Unit, Integration, System, and UAT
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- Functional testing
- API/Backend testing (performance, security)
- Regression testing
- User Acceptance Testing (UAT)

Agile Methodology	Scrum, Kanban, and Hybrid
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- Scrum & Kanban sprint cycles
- Daily stand-up meetings to ensure meeting team meeting
- Sprint reviews and retrospectives at the end of each sprint

Test Levels	Unit, Integration, System, Acceptance
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- Unit testing
- Integration testing
- System testing
- Acceptance testing

Test Deliverables

Key documents and artifacts to be delivered:

- Test plan document
- Test cases and test scripts
- Test execution reports
- Defect reports
- UAT sign-off document

Test Environment

Setup	Configuration of test environment
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A dedicated test environment that replicates the production setup, including hardware, databases, and network configurations.

Requirements	Hardware and software specifications
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- Hardware: Standard server, load balancers
- Software: Latest versions of web server, database servers, and necessary middleware

Tools and Automation

Testing Tools	Java, Selenium, JUnit, TestNG, etc.
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- Options for automation testing
- API testing frameworks and test management
- Platform for API testing

Automation Strategy	Automated for regression
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- Automate regression test cases
- Continuous Integration (CI) setup with Jenkins for automated test execution

Test Data Management

Tools/Approach	Integration of test data
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Use centralized production data to create test scenarios. Ensure synthetic data where necessary.

Privacy and Security	Compliance for data access
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Ensure test data complies with data privacy regulations and is securely managed.

Defect Management

Reporting Process	Issue tracking and logging process
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Defects are logged in JIRA and prioritized based on severity and impact. Regular high meeting to review and log defects.

Tool	JIRA used for defect management
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SLA for defect testing

Roles and Responsibilities

Key roles in the testing team and overview of their tasks:

Role	Responsibilities
Test Manager	Oversee the testing process, ensure testing coverage and tracking
Test Engineer	Design and execute test cases, QA and security test cases, bug reports
Automation Engineer	Develop and maintain automated tests, implement automation scripts
Product Owner	Provide requirements and accept deliverables, explore the user's needs, accept requirements

Schedule

Phase	Start to end date
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Analysis	Start
Sprint 1	July 15 - July 20
Sprint 2	July 25 - August 1
Sprint 3	August 15 - August 20

Deliverables	Due dates and location
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Test strategy	Start
Sprint planning	July 14
Test plan review	July 20
Test UAT	August 20

Risks and Mitigation

Risk Area	Mitigation Strategy
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Scope of test environment setup	Set up and update the test environment
Availability of test data	Secure data availability before testing begins
High defect rates in critical features	Monitor and address critical defects promptly

Communication Plan

Channel	Regular team meetings, daily stand-ups, JIRA issues, Confluence for documentation
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Focus on daily communication and frequent updates. Emphasis on documentation.

Frequency	Daily stand-ups, weekly status reports
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Stakeholders	Product Owner, Development Team, QA team, project manager
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Product Owner, Development Team, QA team, project manager

Test Criteria

Criteria for assessing the testing process and results to ensure:

Criteria	Success Metrics
All test cases executed with a pass rate of 95%	Defect density
No critical defects open	Test coverage
UAT sign-off received	User satisfaction

Conclusion

Summary of test plan

The Agile test strategy provides a structured approach to ensure the quality of Positive Charge software enhancements. Key steps include securing the test environment, maintaining progress, and addressing any issues that arise during the testing process.

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