

# Test Strategy Document

## 1. Introduction

### 1.1 Purpose

The purpose of this document is to outline the overall testing strategy for the [Project Name]. It provides a comprehensive view of the testing approach, resources, schedule, and deliverables.

### 1.2 Scope

This Test Strategy Document applies to the testing of [Application/Module/Release Name] within the [Organization/Project Team].

## 2. Test Objectives

Outline the high-level objectives of the testing efforts. This may include functional testing, non-functional testing, regression testing, performance testing, etc.

### Example:

The primary objectives of testing for the [E-commerce Platform] include:

- Ensuring the functionality of core features such as product browsing, cart management, and checkout.
- Verifying the security and performance aspects of the application.
- Conducting comprehensive regression testing after each development iteration.

## 3. Test Approach

### 3.1 Testing Levels

- Unit Testing
- Integration Testing
- System Testing
- User Acceptance Testing

### 3.2 Testing Types

Specify the types of testing to be performed, such as functional, non-functional, regression, performance, security, etc.

**Example:**

The testing types for the [E-commerce Platform] include:

- Functional Testing: Verifying individual features and their interactions.
- Performance Testing: Assessing the system's response time under various loads.
- Security Testing: Identifying and addressing potential security vulnerabilities.

### 3.3 Test Techniques

Describe the testing techniques to be employed, such as manual testing, automated testing, exploratory testing, etc.

**Example:**

The testing techniques for the [E-commerce Platform] involve a combination of:

- Manual Testing: For exploratory testing and usability assessment.
- Automated Testing: Utilizing Selenium for regression testing and performance testing.

### 3.4 Test Environment

Outline the test environment setup, including hardware, software, and network configurations.

**Example:**

The test environment for the [E-commerce Platform] includes:

- Hardware: Windows and macOS systems for client testing, Linux servers for backend testing.
- Software: Browsers (Chrome, Firefox, Safari), Database (MySQL), Web Server (Apache).
- Network: Simulating various network conditions to assess application behavior.

## 4. Test Schedule

Provide a high-level schedule for testing activities, including milestones and dependencies.

**Example:**

The testing schedule for the [E-commerce Platform] is as follows:

- Sprint 1: Unit and Integration Testing (Days 1-5)
- Sprint 2: System Testing (Days 6-10)
- Sprint 3: User Acceptance Testing (Days 11-15)

## 5. Test Deliverables

List the test deliverables expected during the testing process, such as test plans, test cases, test scripts, defect reports, etc.

**Example:**

The test deliverables for the [E-commerce Platform] include:

- Test Plans for each sprint.
- Test Cases covering critical and high-priority features.
- Automated Test Scripts for regression testing.
- Defect Reports with detailed information on identified issues.

## 6. Testing Risks

Identify potential risks associated with testing and propose mitigation strategies.

**Example:**

Testing Risks for the [E-commerce Platform]:

- Lack of test data: Mitigation involves creating realistic test data sets.
- Evolving requirements: Continuous communication with stakeholders to address changes promptly.
- Resource constraints: Identifying backup resources for critical testing phases.

## 7. Test Resources

Outline the resources required for testing, including personnel, tools, and equipment.

**Example:**

Test Resources for the [E-commerce Platform]:

- Testing Team: 3 QA Engineers and 1 Test Lead.
- Testing Tools: Jira for test management, Selenium for automated testing.
- Test Environments: Dedicated testing servers and client machines.

## 8. Exit Criteria

Define the conditions that must be met to consider testing activities complete and ready for the next phase.

### **Example:**

Exit Criteria for the [E-commerce Platform]:

- 95% test coverage achieved.
- All critical and high-priority defects addressed.
- Test Summary Report approved by stakeholders.

## 9. Test Metrics

Specify the metrics that will be collected during testing to assess progress and quality.

### **Example:**

Test Metrics for the [E-commerce Platform]:

- Test Case Pass Rate: 95%
- Defect Density: 5 defects per sprint
- Automated Test Coverage: 80%

## 10. Approvals

Document the stakeholders who need to review and approve the Test Strategy Document.

### **Example:**

This Test Strategy Document requires approval from:

- Project Manager
- QA Manager
- Product Owner

## 11. Revision History

| Version | Date       | Author   | Description                         |
|---------|------------|----------|-------------------------------------|
| 1.0     | DD/MM/YYYY | [Author] | The initial version of the document |

## 12. Conclusion

Summarize the key points of the Test Strategy Document.