# **Test Plan**

[Objective](#_Toc175090438)

[Scope](#_Toc175090439)

[Inclusions](#_Toc175090440)

[Test Environments](#_Toc175090441)

[Defect Reporting Procedure](#_Toc175090442)

[Test Strategy](#_Toc175090443)

[Test Schedule](#_Toc175090444)

[Test Deliverables.](#_Toc175090445)

[Entry and Exit Criteria](#_Toc175090446)

[Entry Criteria:](#_Toc175090447)

[Exit Criteria:](#_Toc175090448)

[Test Execution](#_Toc175090449)

[Entry Criteria:](#_Toc175090450)

[Exit Criteria:](#_Toc175090451)

[Test Closure](#_Toc175090452)

[Entry Criteria:](#_Toc175090453)

[Exit Criteria:](#_Toc175090454)

[Tools](#_Toc175090455)

[Risks and Mitigations](#_Toc175090456)

[Approvals](#_Toc175090457)

**1. Objective**

This Test Plan outlines the strategy for testing the application, ensuring comprehensive coverage of functionality and performance. It focuses on conducting various types of testing to verify the application’s quality, measuring its impact, and mitigating risks associated with defects.

**2. Scope**

**Features to be Tested**

* User Interface
* Core Functionalities (e.g., Login, Dashboard, Account Creation)
* Performance and Load Handling
* Mobile Compatibility

**Types of Testing**

* Manual Testing
* Automated Testing
* Performance Testing
* Accessibility Testing

**Test Environments**

Testing will be conducted across multiple environments including different browsers, operating systems, and devices to ensure broad compatibility.

**Success Criteria**

* Number of defects identified and resolved
* Time taken to complete testing phases
* User satisfaction and feedback
* Achievement of performance benchmarks

**Roles and Responsibilities**

* **Test Lead:** Oversees the testing process and manages the team.
* **Testers:** Execute test cases, report defects, and validate fixes.
* **Developers:** Address and resolve defects reported during testing.

**Schedule and Milestones**

* **Test Plan Creation:** [Start Date] - [End Date]
* **Test Case Development:** [Start Date] - [End Date]
* **Test Execution:** [Start Date] - [End Date]
* **Summary Reports Submission:** [Submission Date]

**Tools and Equipment**

* **Test Management:** JIRA
* **Documentation:** Word, Excel
* **Bug Tracking:** JIRA
* **Screenshot Tool:** Snipping Tool or equivalent

**3. Inclusions**

* **Introduction:** Overview of the test plan including purpose, scope, and goals.
* **Test Objectives:** Outline specific objectives such as defect identification, user experience improvement, or performance enhancement.

**4. Exclusions**

* Specific features or modules not covered in this plan (e.g., Support Page, certain widgets).

**5. Test Environments**

* **Operating Systems:** Windows 10, macOS, Linux
* **Browsers:** Google Chrome, Mozilla Firefox, Microsoft Edge, Safari
* **Devices:** Desktop, Laptop, Tablet, Smartphone
* **Network:** Wi-Fi, Cellular, Wired
* **Security:** Authentication methods and access protocols

**Environment URLs**

* **QA:** qa.example.com
* **Pre-Prod:** preprod.example.com
* **UAT:** uat.example.com
* **Prod:** app.example.com

**6. Defect Reporting Procedure**

* **Identification Criteria:** Deviation from requirements, user experience issues, technical errors.
* **Reporting Steps:** Use designated templates, provide detailed reproduction steps, attach screenshots/logs.
* **Triaging:** Assign severity, priority levels, and allocate to team members for resolution.
* **Tools:** JIRA or equivalent defect tracking system.
* **Roles and Responsibilities:**
  + **Frontend Defects:** [POC Name]
  + **Backend Defects:** [POC Name]
  + **DevOps Defects:** [POC Name]

**7. Test Strategy**

**Test Design Techniques**

* **Equivalence Class Partition**
* **Boundary Value Analysis**
* **Decision Table Testing**
* **State Transition Testing**
* **Use Case Testing**

**Testing Procedures**

1. **Smoke Testing:** Verify core functionalities.
2. **In-Depth Testing:** Execute detailed test cases after successful smoke testing.
3. **Parallel Testing:** Multiple resources testing across different environments.
4. **Bug Reporting:** Daily status updates and bug tracking.

**Testing Types**

* **Smoke & Sanity Testing**
* **Regression & Retesting**
* **Usability, Functionality & UI Testing**

**Best Practices**

* **Context-Driven Testing**
* **Shift Left Testing**
* **Exploratory Testing**
* **End-to-End Flow Testing**

**8. Test Schedule**

| **Task** | **Dates** |
| --- | --- |
| Creating Test Plan | [Start Date] - [End Date] |
| Test Case Creation | [Start Date] - [End Date] |
| Test Case Execution | [Start Date] - [End Date] |

**9. Test Deliverables**

* **Test Plan**
* **Test Cases**
* **Test Execution Reports**
* **Defect Reports**
* **Summary Reports**

**10. Entry and Exit Criteria**

**Requirement Analysis**

* **Entry Criteria:** Receipt of Requirements Document.
* **Exit Criteria:** Understanding of requirements and resolution of doubts.

**Test Execution**

* **Entry Criteria:** Sign-off on test scenarios and cases, application readiness.
* **Exit Criteria:** Availability of test case and defect reports.

**Test Closure**

* **Entry Criteria:** Completion of test case and defect reports.
* **Exit Criteria:** Final Test Summary Report.

**11. Risks and Mitigations**

* **Risk:** Non-Availability of Resources
  + **Mitigation:** Backup Resource Planning
* **Risk:** Build URL Issues
  + **Mitigation:** Focus on other tasks until resolution
* **Risk:** Insufficient Testing Time
  + **Mitigation:** Dynamic resource allocation

**12. Approvals**

* **Documents for Client Approval:** Test Plan, Test Scenarios, Test Cases, Reports.
* Testing progresses to the next phase only after approvals are received.