| **TEST PLAN** **Project Name: WriteWave QA Testing** |
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| **Introduction** |
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This document outlines the testing strategy, scope, schedule, and deliverables for the WriteWave QA Engineer Challenge. The testing ensures robust functional and usability checks for all major workflows, including **real-time document collaboration, authentication, export features, and UI responsiveness**.

| **Objectives** |
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**The objectives of the test plan are:**

* **Validate the document creation and editing process.**
* **Ensure user authentication and role-based access work correctly.**
* **Verify file export and sharing features.**
* **Conduct UI responsiveness tests across devices.**
* **Identify, report, and categorize at least 15 high-quality bugs.**
* **Write Selenium test scripts for core user workflows.**
* **Provide insights and suggestions for improvement.**

| **Scope** |
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| **Scope Type** | **Details** |
| --- | --- |
| In scope | Functional testing for document collaboration, authentication , file export , and UI responsives |
|  | Usability testing for user interactions. |
|  | Cross-browser compatibility testing |
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| **Testable features:** |
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| **Feature** | **Description** |
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| **Document collabration** | **Verify real-time , text formatting and syncing.** |
| **User Authentication** | **Test registration , login and role-based access.** |
| **File Export & sharing** | **Ensure content downloads in supported formats and sharing works.** |
| **UI Responsiveness** | **Validate the interface across mobile , tablet and desktop.** |

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| **Testing Approach** |
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**Testing Types:**

* Functional Testing
* Usability Testing
* Regression Testing
* UI Testing
* Exploratory Testing

### **Testing Methodologies:**

* **Black-box Testing** (validating expected behavior without internal code knowledge)
* **User Acceptance Testing (UAT)**

### **Testing Environment:**

* **System:** Windows 11
* **Browsers:** Chrome, Firefox
* **Network:** Stable internet connection

| **Roles/Responsibilities** |
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| **Name** | **Role** | **Responsibilities** |
| --- | --- | --- |
| Rajit Kumar | Test Engineer | 1. Write the test plan 2. Test Scenarios,test cases,and execute. |

| **Test Schedule** |
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| **Task** | **Duration** | **Time Durations** |
| --- | --- | --- |
| Test Plan creation | 2 hour | 13/03/2025 |
| Test Scenario Preparation | 1 hour | 13/03/2025 |
| Test Cases Creation | 2 hour | 13/03/2025 |
| Test Execution | 2 hour | 13/03/2025 |
| Summary Report Submission | 1 hour | 13/03/2025 |

| **Entry and Exit Criteria** |
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**Entry Criteria:**

* Requirements and feature documentation received.
* Application is ready for testing.
* Access to the test environment is provided.

### **Exit Criteria:**

* All test cases executed.
* Bug reports documented and shared with developers.
* Summary report and video demonstration submitted.

**Test Closure :**

**>> Entry Criteria:**

Test case Report , Defect Reports are ready

**>> Exit Criteria:**  Test Summary Reports, it overviews of the entire testing process

| **Tools** |
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The following are the list of tools we will be using in this project

Test Management : Google Docs/sheets

**Browser Testing:** Chrome, Firefox.

**Documentation:** Google Sheets/Docs.

| **Risks and Mitigation plans** |
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The following are the list of risks possible and the ways to mitigate them.

| **Risk** | **Mitigation plans** |
| --- | --- |
| Real-time collaboration sync issues | Test with multiple users and log errors. |
| Export feature failures | Validate file formats and cross-browser functionality |

| **Approvals** |
| --- |

Testing will proceed upon approval of:

* Test Plan
* Test Scenarios
* Bug Reports
* Summary Report