# Write Wave Application Test Plan

**WRITE WAVE**

## 1. Objective

The objective of this test plan is to ensure the WriteWave(https://write-wave-gamma.vercel.app/) application meets quality standards through systematic testing. The plan aims to identify defects, validate functionality, and enhance user experience using the V-model for structured testing phases.

## 2. Scope

1. Features to be tested:

* - Document creation and editing
* - User authentication and authorization
* - File export and sharing
* - UI responsiveness across devices

1. Features not to be tested:

* - Advanced admin functionalities (if not part of the current sprint)
* - Third-party integrations (unless specified)

## 3. Test Methodology

1. As WriteWave is a web-based application, the following types of testing will be conducted:

* - Functional Testing
* - Usability Testing
* - Compatibility Testing
* - Performance Testing
* - Security Testing

## 4. Test Approach

* - Writing Test Cases and Test Scenarios: Detailed test cases and scenarios will be created to cover all functionalities.
* - Flowchart: For complex workflows, flowcharts will be used to visualize and ensure complete test coverage.

## 5. Assumptions

* - Resource Assumptions: Adequate testing resources, including testers and devices, are available.
* - Technology Assumptions: The application is compatible with the latest browser versions and operating systems.
* - Development Assumptions: The development team will provide timely fixes for reported defects.
* - Knowledge Transfer Assumptions: Proper documentation and training will be provided for new features.
* - Supporting Documents Assumptions: All necessary documents, such as requirements and design specifications, are up-to-date.

## 6. Risks

* - Resource Risks: Potential unavailability of key testing personnel.
* - Technology Risks: Compatibility issues with older browsers or devices.
* - Schedule Risks: Delays in development fixes impacting testing timelines.

## 7. Backup Plan/Mitigation Plan

* - Resource Mitigation: Assign secondary testers to ensure continuous testing.
* - Technology Mitigation: Prioritize testing on supported environments and document limitations for unsupported ones.
* - Schedule Mitigation: Regularly update the testing schedule to accommodate delays and prioritize critical testing activities.

## 8. Roles & Responsibilities of QA

* - Understand customer requirements.
* - Write test scenarios and test cases.
* - Conduct brainstorming meetings for better test case coverage.
* - Perform optimized testing, including Smoke, Functional, Integration, System, and Adhoc testing.
* - Execute test cases and log defects in the tracking tool.
* - Provide knowledge transfer to other team members.

## 9. Scheduling

* - Start Date: [13.03.25]
* - End Date: [14.03.25]
* - Milestones:
* - Test Plan Finalization: [13.03.25]
* - Test Environment Setup: [13.03.25]
* - Test Case Writing: [13.03.25]
* - Test Execution: [13.03.25]
* - Defect Reporting and Retesting: [13.03.25]
* - Final Test Report: [16.03.25]

## 10. Defect Tracking

Defects will be logged in a defect tracking tool (e.g., JIRA). Each defect will be assigned a unique ID and tracked through its lifecycle. Regular communication with developers to ensure timely resolution of defects.

## 11. Test Environment

* - Hardware: Desktops, tablets, mobile devices
* - Software: Latest versions of Chrome, Firefox, Safari, Edge
* - Database: [Specify if applicable]
* - OS: Windows, macOS, iOS, Android
* - CPU: [Specify if applicable]

## 12. Entry & Exit Criteria

### Functional Testing

1. Entry Criteria:

* - Coding completed
* - WBT done
* - Software installed
* - Smoke testing completed
* - Test scenarios and cases ready
* - Resources available

1. Exit Criteria:

* - 85% test case pass rate
* - No blocker defects
* - Critical defects ≤ 20
* - Major defects ≤ 50
* - Minor defects ≤ 80

### Integration Testing

1. Entry Criteria:

* - Matches exit criteria of Functional Testing
* - Test scenarios and cases ready
* - Resources available

1. Exit Criteria:

* - 95% test case pass rate
* - No blocker or critical defects
* - Major defects ≤ 20
* - Minor defects ≤ 40

### System Testing

1. Entry Criteria:

* - Matches exit criteria of Integration Testing
* - Test scenarios and cases ready
* - Resources available

1. Exit Criteria:

* - 99% test case pass rate
* - No blocker or critical defects
* - Major defects ≤ 10
* - Minor defects ≤ 20

## 13. Test Automation

* - Automation Tool: Selenium
* - Features to be tested: Login & authentication, document creation, exporting content, real-time collaboration, UI responsiveness
* - Automation Framework: Page Object Model (POM)

## 14. Deliverables

* - Test Plan Document
* - Test Scenario & Test Case Document
* - Traceability Matrix Document
* - Test Execution Report Document
* - Defect Report Document
* - Release Notes (including pending defects, fixed defects, tested platforms, installation procedures, version details)
* - Graphs & Metrics

## 15. Templates

* - Test Case Template
* - Test Scenario Template
* - Defect Report Template
* - Test Execution Report Template
* - Traceability Matrix Template