| Test Plan  Project Name - Writewave |
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| Introduction |
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The purpose of this test plan is to define the testing approach, scope, and deliverables for manually testing the <https://write-wave-gamma.vercel.app/> platform. The objective is to ensure that the application functions correctly, meets business requirements, and provides a seamless user experience.

| Testing Objective |
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To verify the core functionalities of the **WriteWave** platform, including user authentication, freelancer-client interactions, and project management.

To identify and report defects to enhance product stability and performance.

To ensure compatibility across different browsers and devices for a seamless user experience.

To validate security measures, data privacy, and compliance with industry standards.

| Testing Scope |
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**Functional Testing:** Verify core functionalities such as user authentication, freelancer-client interactions, project assignments, and payment processing.

**UI/UX Testing:** Assess dashboard layout, responsiveness, and overall user experience across different screen sizes.

**Compatibility Testing:** Ensure seamless functionality across various browsers (Chrome, Firefox, Edge, Safari) and devices (desktop, tablet, mobile).

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**Security Testing:** Validate user authentication, data privacy, and secure transmission of sensitive information.

**Performance Testing (Manual Checks):** Observe dashboard responsiveness, loading times, and overall stability under different user scenarios.

| Testable Features |
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* User Registration & Login
* Profile Setup
* Data Analytics & Insights
* Dashboard Navigation
* Settings & Preferences
* Notifications & Alerts
* Privacy & Security Features
* Mobile App Synchronization
* Logout & Session Management
* Error Handling

| Testing Approach |
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#### Testing Types

* Functional Testing
* Compatibility Testing
* Security Testing
* Usability Testing
* Performance Testing
* Regression Testing
* User Acceptance Testing (UAT)

#### Testing Methodologies

* Black-box Testing
* White-box Testing
* Automated & Manual Testing

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#### Testing Environment

* Web Browsers: Chrome, Firefox, Edge, Safari
* Mobile Devices: Android, iOS
* Testing Tools: Selenium, Postman, Jira, JMeter, Appium

| Roles & Responsibilities |
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### 

| Name | **Role** | Responsibilities |
| --- | --- | --- |
| XYZ | Test Manager | Oversee the entire testing process, allocate resources, and manage risks. |
| XYZ | Test Lead | Develop test plans, assign tasks, and review results. |
| QA | Test Engineer | Execute test cases, report defects, and validate fixes. |

| TestSchedule |
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| **Task** | Duration |
| --- | --- |
| Test Plan Creation & Mind Map | 13 March 2025 |
| Test Scenario | 13 March 2025 |
| Test Cases & Execution | 13 March 2025 |
| Bug Reporting | 13 March 2025 |
| Test Summary / Presentation Report Submission | 13 March 2025 |

| . Test Deliverables |
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| Deliverable | Description | Responsible Owner | Completion Date |
| --- | --- | --- | --- |
| Test Plan | Detailed testing strategy & scope | Test Manager | 13 /03/2025 |
| Test Cases | Test scenarios for different functionalities | Test Engineer | 13 /03/2025 |
| Defect Reports | Documenting identified defects | Test Engineer | 13/03/2025 |
| Test Summary Report | Overall test findings & recommendations | Test Lead | 13/03/2025 |

| Entry & Exit Criteria |
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#### Entry Criteria:

* Testable requirements received.
* The development team has released a stable build.
* Test environments are set up.

#### Exit Criteria:

* All high-priority defects are resolved.
* Test cases are executed with a 100% pass rate or acceptable defect level.
* Final test report is reviewed and approved

| Tools |
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* Test Management: Jira, TestRail
* Automation: Selenium, Appium
* Performance Testing: JMeter
* Defect Tracking: Bugzilla, Jira
* Security Testing: OWASP ZAP, Burp Suite

| Risks & Mitigation Plans |
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| Risk | Mitigation Plan |
| --- | --- |
| Lack of automation testers | Assign backup resources for test automation. |
| No detailed requirements are available | Engage with SMEs and stakeholders for clarification. |
| High number of defects | Conduct frequent reviews & bug triaging. |
| Inconsistent builds from developers | Implement CI/CD pipeline & nightly builds. |

| Approvals |
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The following documents require approval before proceeding to the next phase:

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

Testing will only proceed to the next stage after obtaining the necessary approvals.