Test Plan
Project Name - WriteWave

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Introduction

The purpose of this test plan is to define the testing approach, scope, and deliverables for manually testing the platform. The objective is to ensure that the application functions correctly, meets business requirements, and provides a seamless user experience.

Testing Objective

To verify the core functionalities of the faculty 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

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

- 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

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

Testing Environment

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

Roles & Responsibilities

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.

Test Schedule

Task	Duration
Test Plan Creation & Mind Map	02 March 2025
Test Scenario	02 March 2025
Test Cases & Execution	02 March 2025
Bug Reporting	02 March 2025
Test Summary / Presentation Report Submission	02 March 2025

Deliverable	Description	Responsible Owner	Completion Date
Test Plan	Detailed testing strategy & scope	Test Manager	02/04/2025
Test Cases	Test scenarios for different functionalities	Test Engineer	02/0/42025

Defect Reports	Documenting identified defects	Test Engineer	02/04/2025
Test Summary Report	Overall test findings & recommendations	Test Lead	02/04/2025

Entry & Exit Criteria

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

- Test Management: Jira, TestRail
- Automation: Selenium, Appium
- Performance Testing: JMeter

- Defect Tracking: Bugzilla, Jira
- Security Testing: OWASP ZAP, Burp Suite

Risks & Mitigation Plans

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

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.