**TEST PLAN**

[**(WRITE\_WAVE)**](https://write-wave-gamma.vercel.app/)

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**1. Introduction** The purpose of this test plan is to define the scope, objectives, and approach for testing the "Write Wave" web application. This includes testing login, registration, navigation, featured categories, tools, home pages, and document functionalities to ensure a smooth user experience.

**2. Test Objectives**

* Verify the login and registration functionality.
* Validate navigation across different sections of the website.
* Ensure featured categories display correct content.
* Check the proper functioning of tools like MS Excel and GitHub.
* Test the homepage, footer, and document management sections.

**3. Test Scope**

* Functional Testing
* UI/UX Testing
* Compatibility Testing
* Performance Testing
* Security Testing

**4. Test Approach** The testing will be performed manually and automated wherever necessary using Selenium for UI testing. BDD scenarios will be implemented using Cucumber.

**5. Test Environment**

* Web Browsers: Chrome, Firefox, Edge
* Operating Systems: Windows, macOS
* Devices: Desktop, Mobile, Tablets
* Tools: Selenium WebDriver, TestNG, Cucumber, GitHub

**6. Test Cases**

* **Login**
  + Verify login with valid credentials
  + Verify login with invalid credentials
  + Verify login with empty fields
* **Register**
  + Verify registration with valid data
  + Verify registration with existing username
  + Verify registration with missing fields
* **Navigation**
  + Verify navigation to Home, About, Content, Privacy Policy
  + Verify search functionality
  + Validate redirections for login, register, and trading blogs
* **Featured Categories**
  + Validate each category loads the correct content
  + Check that the layout is responsive
* **Tools**
  + Verify MS Excel and GitHub links function correctly
* **Home Pages & Footer Section**
  + Ensure "Follow Us" links redirect to respective social media pages
  + Validate "Let Us Help You," "Your Account," and "Return Center" functionalities
* **Documents**
  + Validate test plan, test scenario, test cases, and bug report uploads and management

**7. Test Deliverables**

* Test Scenarios
* Test Cases
* Defect Reports
* Test Execution Report

**8. Entry & Exit Criteria**

* Entry Criteria:
  + Test environment setup is complete
  + Functional requirements are finalized
* Exit Criteria:
  + All high-priority test cases are executed
  + No critical defects remain open

**9. Risk & Mitigation Plan**

* **Risk:** Delays in requirement clarification
  + **Mitigation:** Regular communication with stakeholders
* **Risk:** Browser compatibility issues
  + **Mitigation:** Test across multiple browsers

**10. Approval** This test plan is approved by the QA team and project stakeholders.

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Created By: [Abhishek Maurya]

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