**Test Plan**

# **1. Objective :**

To ensure the WriteWave Platform functions correctly. Meets user expectations , and is free from critical defects.

# **2. Scope :**

* Functional testing of document creation correctly , editing, user authentication, file export, and sharing.
* UI/UX validation across devices.
* Identifying and documenting high-quality defects.

# **3. Test Items :**

* User Management Module :
* Registration with valid and invalid inputs.
* Login/logout functionality.
* Email verification for new accounts.
* Document editor module :
* New document creation and saving .
* Application of text formatting.
* Document re-opening.
* Document sharing and export Module :
* Exporting documents to PDF and other formats.
* Verification that exported files maintain content integrity.
* Automation :
* Selenium script execution for login, search, add to cart and validation of cart contents.

# **4. Testing Approach :**

* **Manual Testing :** Validate core workflows with detailed test cases.
* **Automation Testing :** Automate Login, Search, Add to cart, for an eCommerce scenario using selenium.
* **Exploratory Testing** : Identify edge cases and usability issues.

# **5. Test Environment :**

* **Browsers :** Chrome, Firefox, Edge.
* **Devices :** Windows PC
* **Tools :** Selenium webdriver for automation and github for defect tracking.

# **6. Risk and mitigation :**

* **Incomplete requirements :** if requirements are not fully defined , critical test cases might be missed.

**Mitigation :** Hold regular meetings with stakeholders to clarify any ambiguities.

* **Environment Instability :** If the test environment is unreliable , it can delay test execution and defect identification.

**Mitigation :** Maintain backup test environments and monitor system uptime closely.

# **7. Deliverables :**

* **Test Plan document.**
* **Detailed Test cases :** covering functional , negative, and exploratory scenarios.
* **Bug report :** At least 15 well-documented defects , categorized by module.
* **Automation Script :** A selenium based java script demonstrating the eCommerce scenario.
* **Test Summary report :** Analysis of test execution, defect trends, and quality metrics.
* **5-minute video Demo :** A walkthrough covering the testing strategy, bug reproduction and developer communication.

# **8. Approvals :**

* QA Manager
* Project Manager
* Development Lead