**Test Plan**

**Test Plan Identifier:** TP-001

**Introduction:** This test plan outlines the testing strategy, scope, objectives, and resources for the "Test Plan Website" accessible at <https://testplan.s1-tastewp.com/>. The goal of this test plan is to ensure the application meets the functional, usability, and reliability requirements for a seamless user experience. The primary objectives are to validate the key features, identify any issues, and ensure the website is ready for deployment.

**Test Items:** The following components and modules of the website will be tested:

1. **Student Registration and Login:**
   * User registration.
   * Login with valid and invalid credentials.
   * Password recovery.
2. **Course Search, Filter, and Course Details:**
   * Search functionality.
   * Filtering courses by category, price, or difficulty.
   * Viewing course details, such as syllabus and instructor information.
3. **Add to Cart and Wishlist:**
   * Adding and removing courses to/from the cart.
   * Adding and removing courses to/from the wishlist.
   * Navigating between cart and wishlist pages.

**Features to be Tested:**

* All core functionalities are listed under "Test Items."
* User interface and responsiveness across devices and browsers.
* Navigation and workflow.
* Error handling and notifications.
* Integration with the backend/database.

**Features Not to Be Tested:**

* Payment through EMI or other payment methods (excluded for this phase).
* Non-functional requirements like performance or stress testing.

**Approach:**

* **Functional Testing:** Validate all functionalities of the website as per the requirements.
* **Cross-Browser Testing:** Ensure the website functions consistently on popular browsers like Chrome, Firefox, and Safari.
* **Compatibility Testing:** Check responsiveness on various devices (mobile, tablet, and desktop).
* **Regression Testing:** Re-run tests after bug fixes to ensure no new issues arise.
* **Exploratory Testing:** Perform unscripted testing to uncover edge cases.

**Items Pass/Fail Criteria:**

* **Pass Criteria:** A test case is marked as "pass" if its actual outcome matches the expected result.
* **Fail Criteria:** A test case is marked as "fail" if its actual outcome deviates from the expected result, or an error occurs.

**Suspension Criteria:** Testing will be suspended if:

* Major functionality is blocked due to critical defects.
* Environmental issues prevent test execution.
* Test resources (tools or testers) are unavailable.

**Test Deliverables:**

1. Test Plan.
2. Test Cases.
3. Bug Reports.
4. User Guide.
5. Release Notes.

**Testing Tasks:**

* Develop test cases based on the website’s requirements.
* Execute test cases and log defects.
* Perform re-testing and regression testing.
* Document test results and provide feedback.

**Environmental Needs:**

* Testing devices: Desktop, tablets, and smartphones.
* Browsers: Latest versions of Chrome, Firefox, Edge, and Safari.
* Tools: Selenium, Postman, and JIRA for bug tracking.
* Test environment setup with access to all required modules and databases.

**Responsibilities:**

* **Test Lead:** Develop and manage the test plan, and assign tasks.
* **Testers:** Execute tests, log defects, and retest after fixes.
* **Developers:** Fix bugs reported during testing.
* **Project Manager:** Ensure all resources are available and coordinate across teams.

**Training Needs:**

* Team training on the website’s functionalities.
* Training for using testing tools like Selenium and JIRA.

**Schedule:**

* Test Plan Development: [Insert Date]
* Test Case Design: [Insert Date]
* Test Execution: [Insert Date]
* Bug Fixing and Re-Testing: [Insert Date]
* Final Approval: [Insert Date]

**Risk & Contingencies:**

* **Risks:**
  + Delayed bug fixes may impact testing schedules.
  + Resource unavailability due to unforeseen circumstances.
  + Incomplete requirements or unclear specifications.
* **Contingencies:**
  + Prioritize critical tests.
  + Reallocate tasks to available resources.
  + Escalate issues to stakeholders promptly.

**Approvals:**

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  **Reviewed By:**
* **Approved By:**