Test Plan for Winter project

**1. Test Objectives**

* 1. **Functionality Verification**: To ensure that all features of the system function as expected according to the design specifications and user requirements.
     + Responsive Layout
     + Navigation
     + Bookmarking
     + Search bar
     + Sign-Up and Login
     + Hover states on interactive elements
     + Specified pages exist and function as intended
  2. **Visual design compliance**: Ensure that the display specifications used throughout the website match the criteria specified in the Figma design file.
     + Colors
     + Typography
     + Interactive elements
     + Icons
     + Images

**2. Test Scope**

This testing effort will include the following:

* **Testing of Functional Requirements**: Ensuring the website’s functionality works as expected.
* **User management**:
* **User Interface Testing**: Ensuring the design elements and interactions (e.g., navigation menu, form input) are consistent with the Figma design.
* **Visual Design Compliance Testing**: Ensuring that colors, typography, icons, images, and other visual elements match the Figma design specifications.
* **Responsiveness Testing**: Verifying that the website is responsive across various devices (desktop, tablet, and mobile).

**3. Test Strategy**

**Test Type:**

**Manual Testing**: Testing will be performed manually by the QA team for all functional, UI, and visual design compliance aspects.

**Testing Phases**:

**Integration Testing**: The integration of various website components will be tested to ensure proper communication between the frontend and backend.

**System Testing**: Complete system testing will ensure that the website works as a whole across different devices and browsers.

**User Acceptance Testing**: End-users or stakeholders will review the website to confirm it meets business requirements.

**4. Test Schedule**

| **Activity** | **Start Date** | **End Date** |
| --- | --- | --- |
| Test Case Development and Test Environment Setup | December 5 | December 13 |
| Test Execution and Bug Fixing | December 13 | December 19 |
|  |  |  |

**6. Risk Management**

| **Risk** | **Potential Impact** | **Likelihood** | **Mitigation Strategy** |
| --- | --- | --- | --- |
| Design Discrepancies | The website may not match the Figma design exactly due to incorrect implementation or ambiguity in the Figma file. | Medium | Ensure regular communication with the design team. |
| Responsive Design Issues | The website may not display correctly on certain devices due to missing media queries or improper layout handling. | Low | Perform extensive testing on all screen sizes |

**7. Entry Criteria**

* **Figma Designs**: The Figma design specifications (including UI, layout, typography, and interactivity details) must be available and finalized.The requirements and design documents have been reviewed and approved.
* **Functional Requirements**: Clear and complete documentation of functional requirements and user stories should be available, outlining the expected behavior of the website.
* **Test Cases**: Test cases for the various functionalities (UI elements, navigation, user flows) should be created and reviewed.

**8. Exit Criteria**

* All planned test cases have been executed.
* Critical and major defects resolved.
* Requirements and acceptance criteria met.
* A detailed test execution report has been prepared.

**9. Deliverablese**

* **Test Plan**: This document.
* **Test Case Document:** This document, maintained in an Excel file, will contain all the test cases that were executed during the testing phase. It will include the test case ID, description, status (pass/fail). The Excel file will be delivered along with the final test report.
* **Bug Reports:** A detailed report of all the bugs found during testing will be provided and tracked in Jira, and the link to the project's Jira board will be provided for easy access and tracking.
* **Test Summary Report:**  This report, maintained in an Excel file, will provide a summary of the testing activities and a set of metrics that give a quantitative measure of the quality of the software and the effectiveness of the testing. This could include metrics like defect density, defect removal efficiency, and test case effectiveness. The Excel file will be delivered along with the final test report.