**Test Plan for Notes Application**

**1. Introduction**

This Test Plan defines the strategy and approach for testing the Notes Application. The application allows users to register, log in, and manage notes through creating, editing, and deleting them. The purpose of this plan is to ensure that the application functions correctly, is user-friendly, and meets quality standards.

**2. Scope of Testing**

The following areas will be covered:

* **Functional Testing**
  + Register
  + Login
  + Create / Edit / Delete Notes
* **UI Testing**
  + Layout, design consistency
  + Responsiveness across screen sizes
* **API Testing**
  + Validation of GET, POST, PUT, DELETE endpoints
* **Compatibility Testing**
  + Browsers: Chrome, Firefox
* **Exploratory Testing**
  + Free-form testing to identify unexpected issues

**3. Objectives**

* Ensure that all core features (register, login, note management) function as expected.
* Detect and report any defects or inconsistencies.
* Validate usability and accessibility for end-users.
* Confirm that APIs return accurate responses and handle errors properly.

**4. Testing Approach**

* **Manual Testing**:  
  Functional and UI tests will be performed manually in supported browsers.
* **Automation Testing**:  
  Selenium will be used to automate main workflows such as registration, login, and note management.
* **API Testing**:  
  A Postman collection will be created to test API endpoints and their responses.

**5. Entry & Exit Criteria**

**Entry Criteria:**

* Application is deployed and accessible locally.
* Test environment is set up with required tools.

**Exit Criteria:**

* All planned test cases executed.
* Major defects resolved or documented.
* Test results reviewed and approved.

**6. Test Environment**

|  |  |
| --- | --- |
| **Component** | **Details** |
| Operating System | Windows 11 |
| Browsers | Google Chrome, Mozilla Firefox |
| Tools | Selenium, Postman |

**7. Responsibilities**

* **QA Engineer:** Test case execution, defect reporting, retesting.
* **Developer:** Fix reported issues and provide builds for retesting.
* **Team Lead:** Approve test results and sign-off.

**8. Deliverables**

* Test Plan document
* Test Cases document
* Bug Reports
* Postman API Collection
* Selenium Automation Scripts

**9. Risks & Mitigation**

* **Risk:** Application downtime may delay testing.  
  **Mitigation:** Coordinate with developers to ensure test environment stability.
* **Risk:** Incomplete requirements may lead to missed test cases.  
  **Mitigation:** Clarify requirements during planning and exploratory testing.

**10. Sign-off**

Approved by: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_