**Test Plan Document**

**1. Introduction**

The test plan outlines the strategy, approach, resources, and schedule for testing the appointment management system of Dr. Neha's clinic. The goal is to ensure all functionalities meet the specified requirements and perform seamlessly.

**2. Objective**

To validate the appointment management system, ensuring it is user-friendly, secure, and meets the requirements for patients, doctors, and receptionists. The objective is to deliver a defect-free and reliable system.

**3. Scope**

The testing will cover the following areas:

* Patient functionalities: Sign up, log in, book appointments, modify/cancel appointments, and receive notification.
* Receptionist functionalities: Managing schedules, confirming appointments, and modifying availability.
* Doctor functionalities: Viewing appointment schedules (daily/weekly).

**Out of Scope:**

* Payment functionalities (if applicable) are not included in this release.
* Integration with third-party applications.

**4. Testable Features**

* Patient:
  + Sign-up and login functionality with OTP validation.
  + Viewing available slots and booking appointments.
  + Modifying or cancelling appointments.
* Receptionist:
  + Logging in and managing schedules.
  + Viewing and confirming appointments.
* Doctor:
  + Viewing daily and weekly appointment schedules.

**5. Testing Approach**

* **Type of Testing:**
  + Functional Testing
  + Usability Testing
  + Compatibility Testing
  + Performance Testing
  + Regression Testing
* **Techniques:**
  + Black-box testing for functionality.
  + Exploratory testing for usability and responsiveness.
* **Test Environment:**
  + Web-based application tested on Chrome, Firefox, and Safari.
  + Simulated SMS services for notification validation.

**6. Roles and Responsibilities**

* **Tester:** Prepare and execute test cases, report defects, and retest fixes.
* **Test Lead:** Plan testing activities, allocate tasks, and ensure deadlines.
* **Developer:** Resolve defects identified during testing.
* **Project Manager:** Oversee the project's progress and ensure deliverables align with business goals.

**7. Test Schedule**

|  |  |  |
| --- | --- | --- |
| Activity | Start date | End date |
| Test plan preparation | **18.11.2024** | **18.11.2024** |
| Test case design | **19.11.2024** | **19.11.2024** |
| Final report submission | **19.11.2024** | **19.11.2024** |

**8. Test Deliverables**

* Test Plan Document
* Test scenario Document
* Test Case Document
* Final Approval from Stakeholders

**9. Entry and Exit Criteria**

**Entry Criteria:**

* Requirements document is finalized and signed off.
* Development is complete for all modules.
* Test environment is set up.
* Test data is prepared.

**Exit Criteria:**

* All critical defects are resolved.
* Test cases achieve 100% execution with a pass rate of at least 95%.
* Stakeholders approve the final test summary report.

**10. Tools**

* **Test case writing tool:** MS Excel
* **Defect Tracking Tool:** Jira
* **Automation Tool (if applicable):** Selenium or Cypress
* **Performance Testing Tool:** Apache JMeter

**11. Risk and Mitigation Plan**

|  |  |
| --- | --- |
| Risk | Mitigation Plan |
| Delayed environment setup | **Coordinate with the dev team for timely setup.** |
| Requirement changes during testing | **Use a flexible test plan and prioritize test cases.** |
| Critical defects close to the release date | **Perform a risk-based analysis for testing.** |
| Limited testing resources | **Use automation to save time and effort.** |

**12. Approvals**

|  |  |
| --- | --- |
| Name | Role |
| Project Manager | Approval for test strategy and execution |
| Test Lead | Approval for test plan and test cases |
| Stakeholder | Final approval of the test summery Report |