TEST PLAN

***PROJECT NAME :-My Clinic Application***

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**1. Introduction**

**1.1 Purpose:** The Clinic Appointment System is a web-based application developed for Dr. Neha's clinic to manage patient appointments efficiently. The system allows patients to book appointments online, enables the receptionist to manage slots, and provides the doctor with schedule management capabilities.

**1.2 Scope:** This test plan outlines the testing strategy, objectives, and approach for ensuring the quality and reliability of the Clinic Appointment System.

**1.3 Objectives:**

* Validate all functional requirements of the appointment booking system
* Ensure system reliability and performance under expected load
* Verify the security of patient data and system access
* Confirm SMS notification functionality
* Validate appointment scheduling logic

**2. Test Strategy**

**2.1 Types of Testing:**

* **Functional Testing:** Ensure all features work as intended.
* **Regression Testing:** Verify that new changes don’t negatively affect existing functionality.
* **Performance Testing:** Assess the application's responsiveness and stability under load.
* **Usability Testing:** Evaluate the user interface and experience.
* **Compatibility Testing:** Confirm the application works across various devices and browsers.

**2.2 Testing Tools:**

* **Functional Testing:** Selenium, TestNG, X-Mind, Jira
* **Performance Testing:** JMeter, LoadRunner
* **Security Testing:** OWASP ZAP, Burp Suite
* **Compatibility Testing:** BrowserStack, LambdaTest

**3. Test Scope**

**3.1 Features to be Tested:**

**1 Patient Module**

1. Registration
   * Phone number verification
   * OTP authentication
   * Profile management
2. Appointment Management
   * Slot viewing
   * Booking
   * Modification
   * Cancellation

**2 Receptionist Module**

1. Slot Management
   * Create weekly schedule
   * Modify slots
   * Block time periods
2. Appointment Oversight
   * Confirm bookings
   * Manage changes
   * Handle cancellations

**3 Doctor Module**

1. Schedule Management
   * View daily schedule
   * View weekly calendar
   * Check patient details

**3.2 Features Not to be Tested:**

* Integration with third-party services (e.g., external APIs) will not be tested in this plan.

**4. Test Environment**

**4.1 Hardware:**

* Servers: [Specify server configurations]
* User Devices: Desktop (Windows, macOS), Mobile (iOS, Android)

**4.2 Software:**

* **Operating Systems:** Windows 11, macOS, iOS 15+, Android 12+
* **Browsers:** Chrome, Firefox, Safari, Edge
* **Database:** N/A

**5. Test Schedule**

**5.1 Milestones:**

* **Test Planning:** [18-11-2024] - [18-11-2024]
* **Test Case Design:** [18-11-2024] - [18-11-2024]
* **Test Execution:** [19-11-2024] - [19-11-2024]
* **Defect Reporting:** Ongoing during test execution
* **Test Closure:** [19-11-2024] - [19-11-2024]

**6. Test Deliverables**

**6.1 Test Artifacts:**

* Test Plan Document
* Test Cases and Scripts
* Test Data
* Test Execution Reports
* Defect Reports
* Final Test Summary Report

**7. Roles and Responsibilities**

**7.1 Test Manager:**

* Oversee test planning and execution
* Coordinate with stakeholders
* Review and approve test deliverables

**7.2 Test Engineers:**

* Design and execute test cases
* Report and track defects
* Collaborate with the development team

**7.3 Product Owner:**

* Provide requirements and clarify doubts
* Validate test results and provide feedback

**Entry & Exit Criteria**

**8.1 Entry Criteria**

* Requirements sign-off completed
* Test environment ready
* Test data prepared
* Test cases reviewed and approved
* All critical path functionalities developed

**8.2 Exit Criteria**

* All planned test cases executed
* No critical or high-severity defects open
* 95% of test cases passed
* Performance criteria met
* UAT completed and signed off

**9. Risk and Mitigation**

**9.1 Risks:**

* **Incomplete Requirements:** Regular review and clarification sessions with stakeholders.
* **Environment Issues:** Ensure test environments are stable and reflective of production.
* **Testing Delays:** Prioritize critical test cases and allocate additional resources if needed.

**10. Approval**

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**Approved by:** Masai School

**Date of Approval: 19/11/2024**