**Scenario Testing**

Introduction

* Purpose of the Document

The Scenario Testing Document outlines the approach, procedures, and criteria for testing the Smart Hospital System to ensure it functions as expected and meets operational needs. Testing aims to enhance system reliability and efficiency by identifying and rectifying issues before deployment.

* Scope of the System

The Smart Hospital System streamlines operations and improves patient care for administrators, doctors, nurses, and patients. The testing process covers scenario-based testing for all user roles to ensure system functionality and usability.

* Testing Strategy

Overview of Testing Approach

* The strategy validates system aspects through structured scenario-based tests, ensuring each feature provides a seamless user experience.

Test Objectives

* Primary objectives include functionality, usability, compatibility, data integrity, error handling, and security testing.

Test Environment

Hardware Requirements • Testing primarily occurs on a 2023 MacBook Air M1 to ensure optimal performance.

Software Requirements

* macOS (latest stable version), Safari, Chrome, Firefox, and database tools are used for

testing.

Test Procedures

Test Case Structure

* Test cases include ID, scenario, objective, preconditions, steps, expected results, actual results, pass/fail criteria, and comments.

Execution Strategy

* Tests are executed systematically, covering critical scenarios multiple times with different

data sets.

Handling Deviations

* Deviations from expected outcomes are logged, assessed, and addressed promptly.

Expected Outcomes

Criteria for Success

* Success is measured by functionality compliance, usability, performance, data accuracy, error handling, and security.

Handling of Test Failures

* Failures are reported immediately, impact assessed, root causes analyzed, resolved, and retested. Documentation ensures learning for future testing cycles.

Final Evaluation

* The final evaluation reviews all test results against success criteria to determine system readiness for deployment.

* This Scenario Testing Document provides a clear guideline for testing the Smart Hospital System, ensuring its effectiveness and reliability.