Test Plan: PulseGuard – Critical Alerting & Escalation System for Hospitals

1. Test Plan Identifier

PulseGuard-TestPlan-v1.0

2. Introduction

This Test Plan outlines the strategy and scope of testing for PulseGuard, a hospital-grade alerting and escalation system. It ensures that critical alerts reach the right stakeholders with zero downtime or failure.

3. Features to be Tested

- Alert Monitoring UI - Escalation Workflow - Acknowledgment Functionality - Admin Configurations - Notification System (SMS, Email, App) - Reports & Audit Logs - Security & Access Control - Dashboard Responsiveness & Performance

4. Features Not to be Tested

Third-party integration (e.g., with hardware sensors) is out of scope for this cycle.

5. Test Approach

- Testing Type: Manual Testing (Black Box) - Levels: Functional, Integration, System, UI/UX - Techniques: BVA, ECP, Use Case Testing, Exploratory Testing - Tools: Excel/Google Sheets, Trello/Jira (for bug tracking)

6. Entry and Exit Criteria

Entry Criteria: - SRS is approved - Test data is available - Environment is set up Exit Criteria: - All test cases executed - All major bugs closed - Test Summary Report submitted

7. Test Deliverables

- Test Plan Document - Test Scenarios & Test Case Document - Bug Report Log - Test Summary Report

8. Testing Tasks

- Analyze Requirements (SRS) - Prepare Test Plan - Write 150–300 Test Cases - Execute Test Cases - Report Bugs - Prepare Final Test Summary

9. Environmental Needs

- Hardware: Windows 10+, 8 GB RAM - Software: Browser (Chrome/Edge), Spreadsheet tool, Jira/Trello - Test Data: Dummy patient/alert data

10. Responsibilities

All test activities will be carried out solely by the tester (you). This includes planning, designing, execution, and reporting.

11. Schedule

Day 1–2: SRS Review & Test Plan Creation Day 3–8: Write Test Cases Module-wise (40–50/day) Day 9–12: Execute Test Cases, Log Bugs Day 13–14: Re-testing & Final Reporting Day 15: Wrap-up & Presentation Ready

12. Risks & Mitigation

- Risk: Scope Creep → Mitigation: Freeze scope in SRS - Risk: Time Crunch → Mitigation: Daily tracking of progress - Risk: Data Unavailability → Mitigation: Prepare dummy test data early

13. Approvals

As a solo tester, you are the reviewer and approver of all testing artifacts. If submitting to a mentor/company, get it reviewed externally.