## Software Requirements Specification (SRS)

### Project Title:

Distributed Medical Device Monitoring & Donor Management System

### Platform:

Linux (C Language with IPC mechanisms and Socket Programming)

25-10-2025

**1. Created UI for Both Main and Remaining Processes**

Successfully developed the user interface components for:

* **main.c** –Choosing whether the person is donor or patient and likely handling the details of person.
* **ui.c** – possibly serving as a centralized UI handler or controller.

This ensures that each process has a dedicated and functional interface, improving usability and modularity.

**2. Created PowerPoint Presentation**

A presentation has been prepared to:

* Explain the architecture and flow between the different .c files.
* Demonstrate the UI design and how each module interacts.

**3. Synchronization of All Files Completed**

All source files have been synchronized, including:

* Proper linking of donor.c despite it being in a separate file.
* Avoiding duplication or mismatch across modules.

This step ensures smooth compilation and integration across the entire codebase.

**4. Program Is Running Error-Free**

The compiled program is executing without any runtime errors:

* All modules (main, patient, lab, ui, donor) are functioning as expected.
* No segmentation faults, memory leaks, or logical errors detected.
* Output is consistent with the intended design.

**5. Need to Add Dashboard for Each Process**

To enhance monitoring and control, dashboards are planned for:

* **Patient Module** – showing patient records, status, and actions.
* **Lab Module** – displaying test results, pending tasks, and reports.
* **Donor Module** – tracking donor details, availability, and history.
* These dashboards will provide real-time data visualization and improve user int