

The objective was to design a system that eliminates these shortfalls while keeping operations simple and user-friendly.

3. Project Objectives

The Blood Management System aims to:

1. Centralize and digitize donors and patient records.
2. Maintain real-time blood stock inventory.
3. Enable safe and controlled blood assignments to patients.
4. Automatically store all records in an Excel database without overwriting old data.
5. Provide a reliable, always-linked data backbone between the program and Excel.
6. Ensure operational continuity through automated saving, updating, and retrieval.

4. System Scope

The system covers:

- Donor Registration
- Patient Registration
- Determining if patient requires blood
- Assigning blood units
- Blood stock management
- Viewing donor/patient lists
- Viewing transfusion history
- Excel file integration for all persistent data storage