Blood Bank Management System

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Business Environment

Necessity of Blood Donation

Data is from American Red Cross



1 donation can potentially save up to 3 lives.



Every **2 seconds** someone in the U.S. needs blood.



Less than **38 percent** of the population is eligible to give blood or platelets.



Blood and platelets **cannot** be manufactured; they can only come from volunteer donors.

Business Environment

SWOT Analysis

The Target of this platform:

- Make it more convenient for healthcare facilities to get blood
- Spread blood donation information to the public

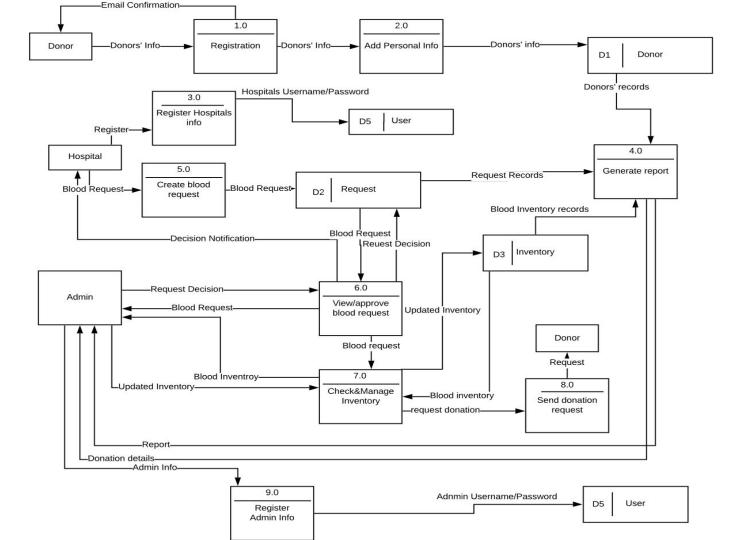
Strengths	Weaknesses
Automated system Upgraded communication method Speed & Safety	 Requires skilled staff with professional knowledge Lack of understanding and awareness Struggle to recruit repeat donors
Opportunities	Threats
Increasing demand for service Digitization of service Easy inventory management Increase use of new media	New technology Budget cuts

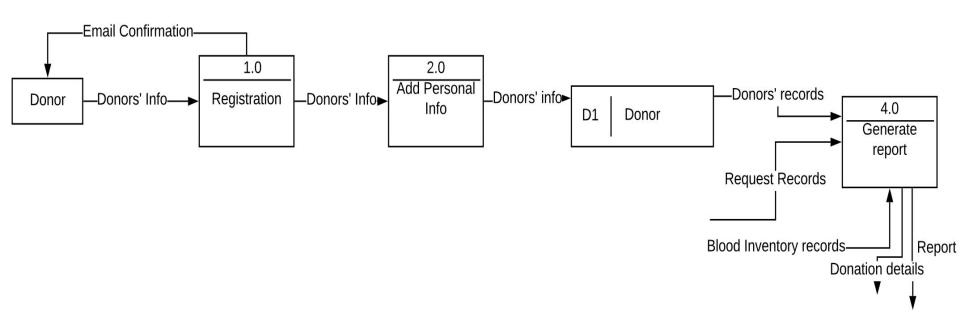
Problem Addressed

- Lack of public awareness in low-income countries
- Lack of appropriate regulation to ensure safe, equitable, and sustainable distribution of blood
- Significant concern with blood safety
- Need for a centralized system to increase transparency and accountability
- Need for adequate volume of blood supply
- Lack of funding per blood collection

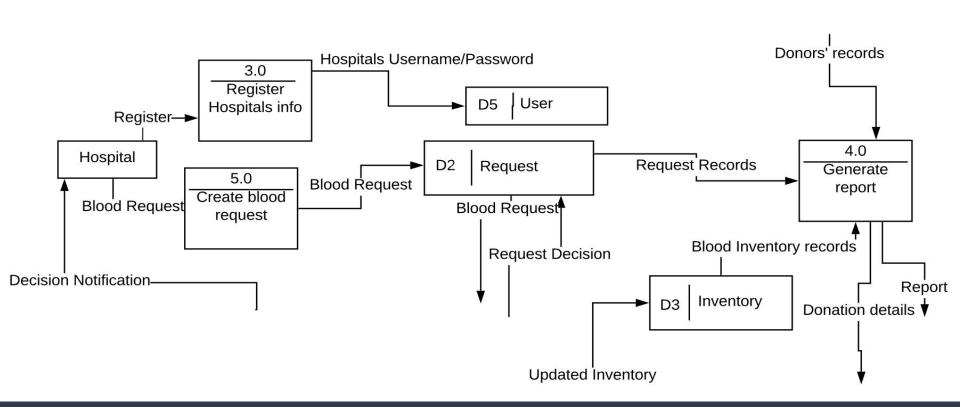
Business Goals & Objectives

- Develop a Blood Bank Management system to:
 - Provide convenience, efficiency, and security
 - Encourage engagement through organizing blood drives and advertising the importance of blood donation
 - Improve the efficiency of blood stock management
 - Provide safety and ensure quality in blood distribution
 - Maintain adequate volume of blood supply

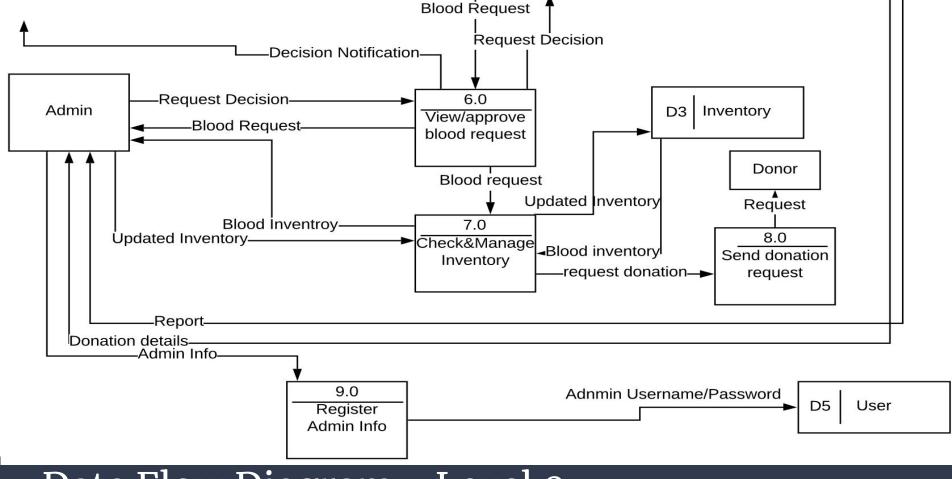




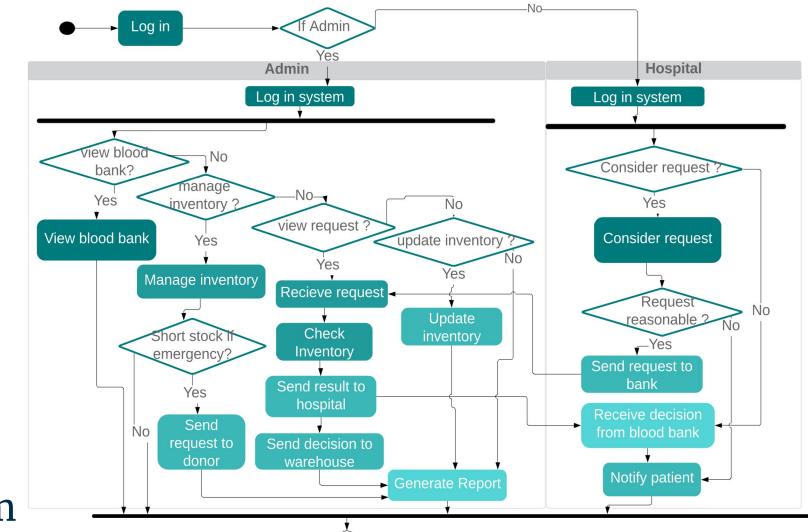
Data Flow Diagram - Level o



Data Flow Diagram - Level o

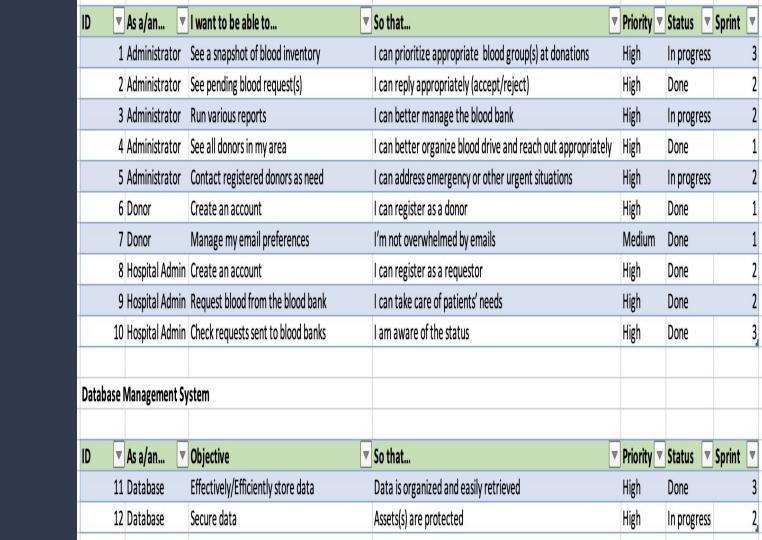


Data Flow Diagram - Level o

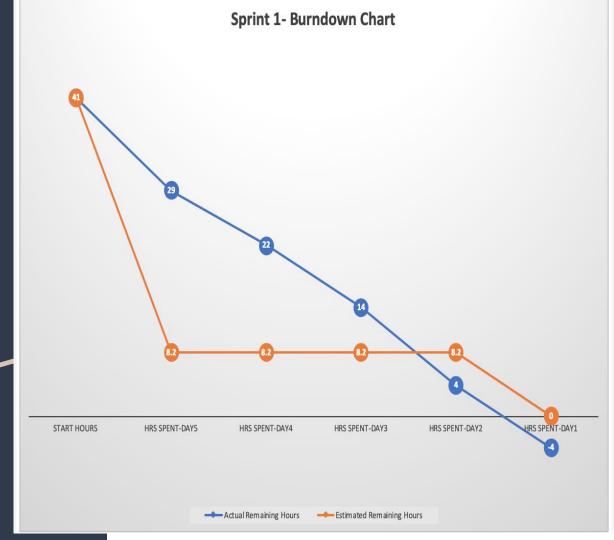


Activity Diagram

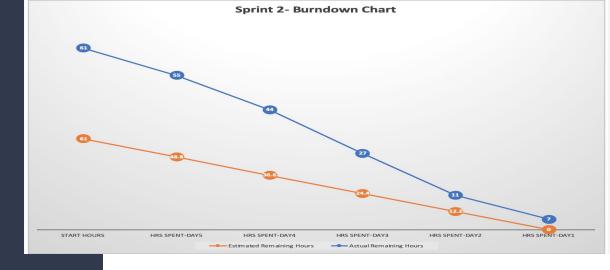
Product Backlog

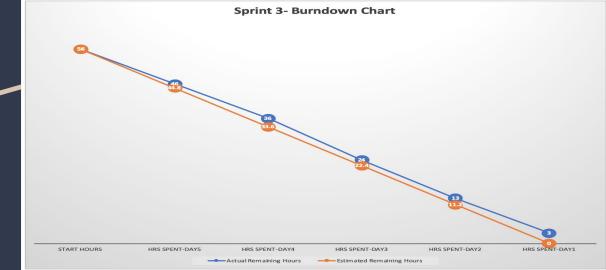


Burndown Chart



Burndown Chart Cont'd





Prototype Demo

Questions?