

# BLOOD BANK MANAGEMENT SYSTEM

## Team Members:

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## Presented by:

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# Project Description/Case Study

**About:** The Blood Bank Management System is a comprehensive software solution designed to streamline the process of blood donation, request, and management. This system is aimed at connecting donors, patients, and blood bank administrators to ensure efficient blood supply management while saving lives.

## Problem Statement

▶ The problem at hand is the inefficiency and lack of transparency in the blood donation and reservation process. Donors, patients, and administrators face challenges in managing the workflow, checking blood availability, and updating patient profiles.

## Solution

▶ Enable patients with accepted requests to easily access the blood bank administration, ensuring a smooth and organized process for blood reservation and retrieval.

## Benefits

- ▶ **Efficiency:** Streamlines the blood donation process, reducing manual paper work.
- ▶ **Timeliness:** Enables quick responses to blood requests, potentially saving lives
- ▶ **Data Analysis:** Allows administrators to make data-driven decisions for resource allocation.

# Users With Functions

## ▶ ADMINISTRATOR:

- The Administrator should be able to Access the system with authentication.
- Administrator should be able to View Donors and Patient Lists, Display a list of all donors. Display a list of blood requests from patients.
- Accept or Reject Patient Requests: Accept or reject blood requests from patients.
- Update Patient Request Status: If accepted, update the patient's profile to show the request as "accepted."
- Patients can collect blood from the administrative after approval. Update the patient's profile to indicate that blood has been taken by the patient.
- Administrative can view and manage donor appointments. When donors donate blood, update their status to "donated blood."

## ▶ USER :

- Donors can register and create profiles with their personal information.
- Users (patients or their representatives) can also register.
- Users can be able to request for blood.

## ▶ DONOR:

- Donors can view and update their profiles.
- Schedule blood donation appointments and view their donation history.

# Project Roadmap

Application will be developed in following Sprints:

Core Java



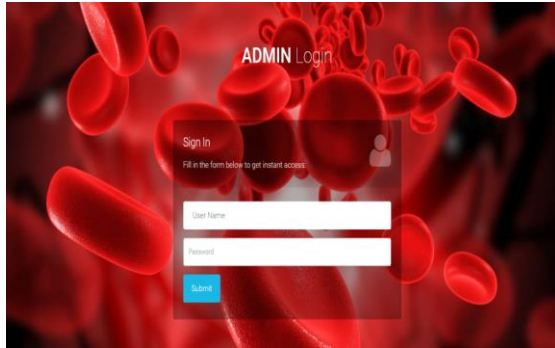
Servlets and JSP  
MYSQL



HTML,CSS  
and  
JavaScript



# Project Modules



Admin Module

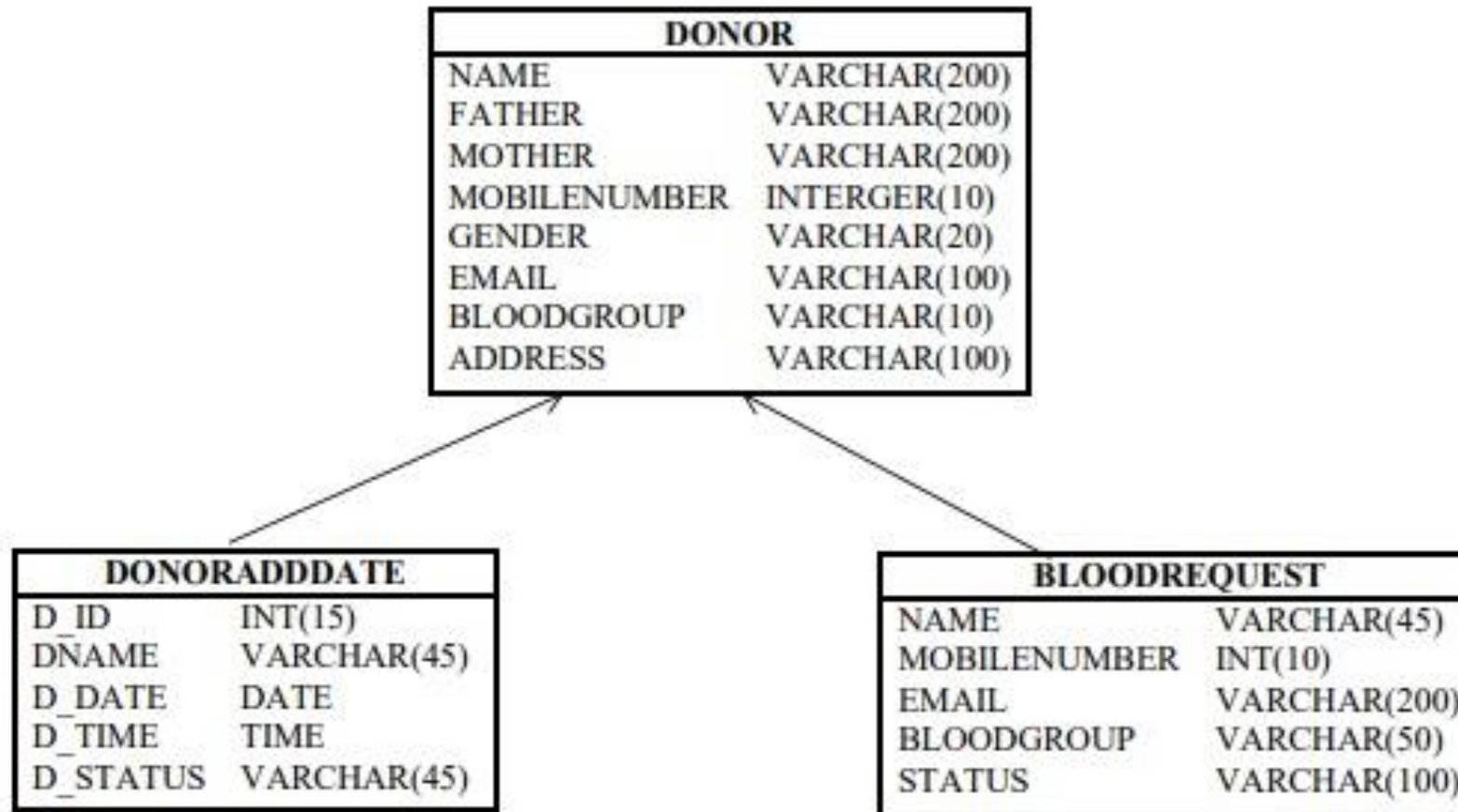


Donor Module

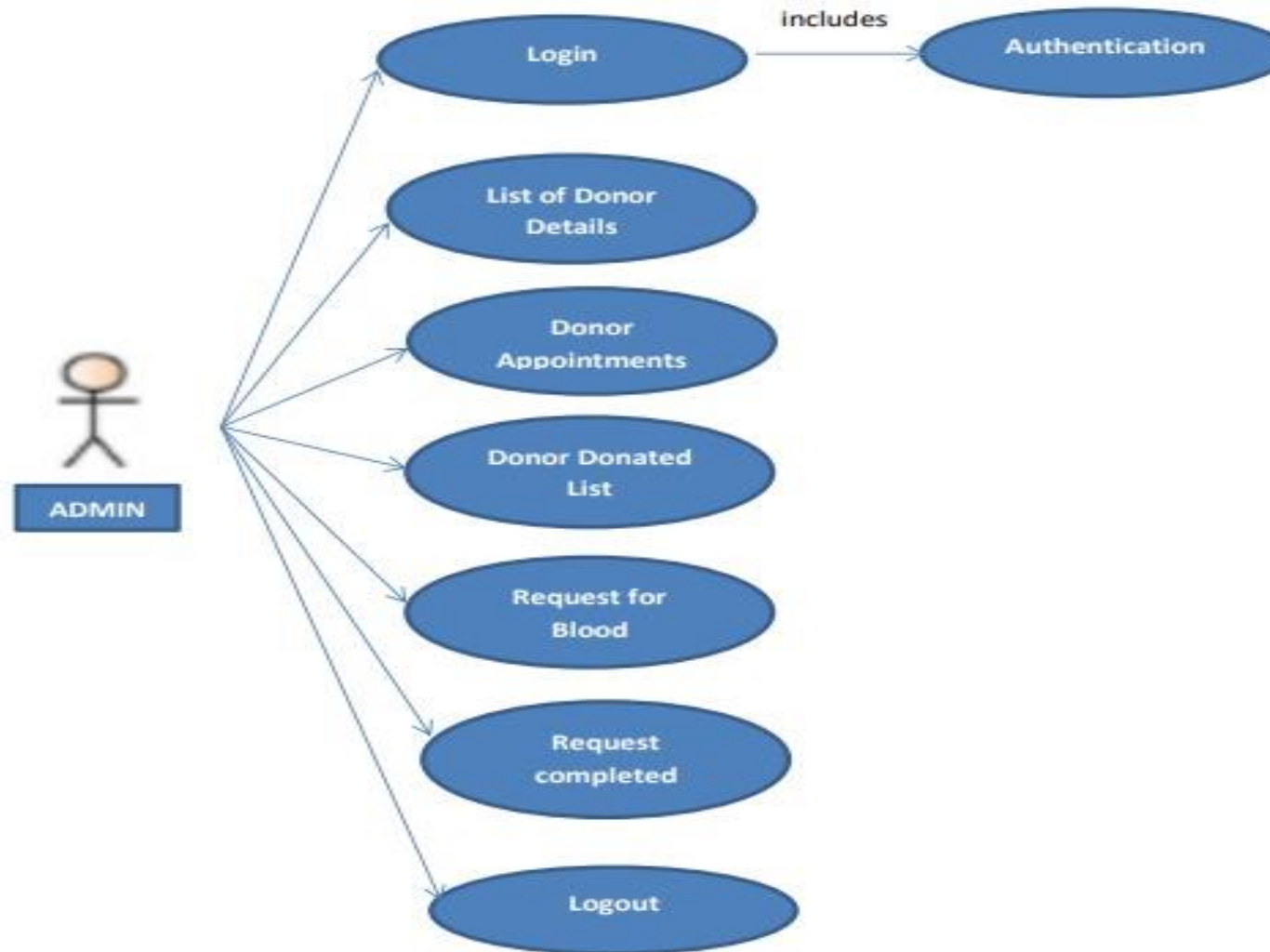


User Login Module

# Project : ER Diagram

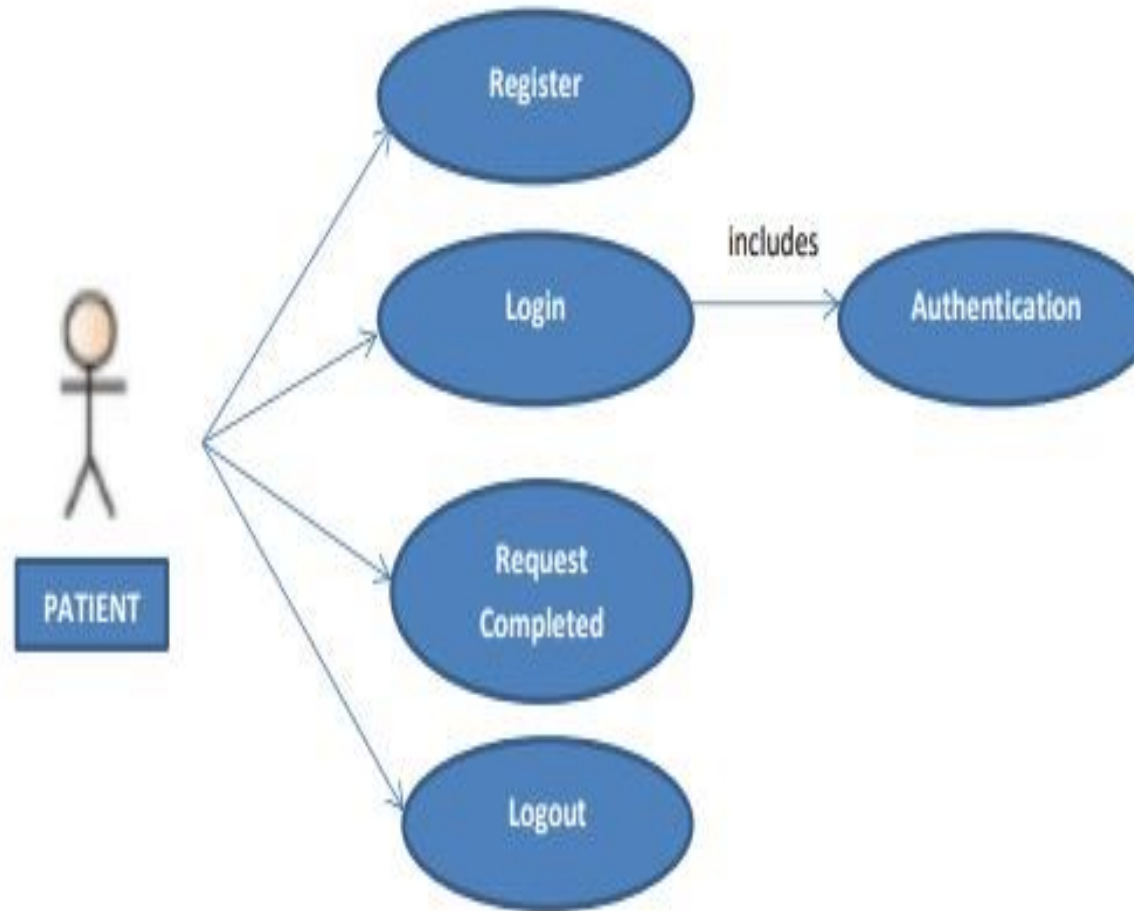


# Project: Use Case Diagram



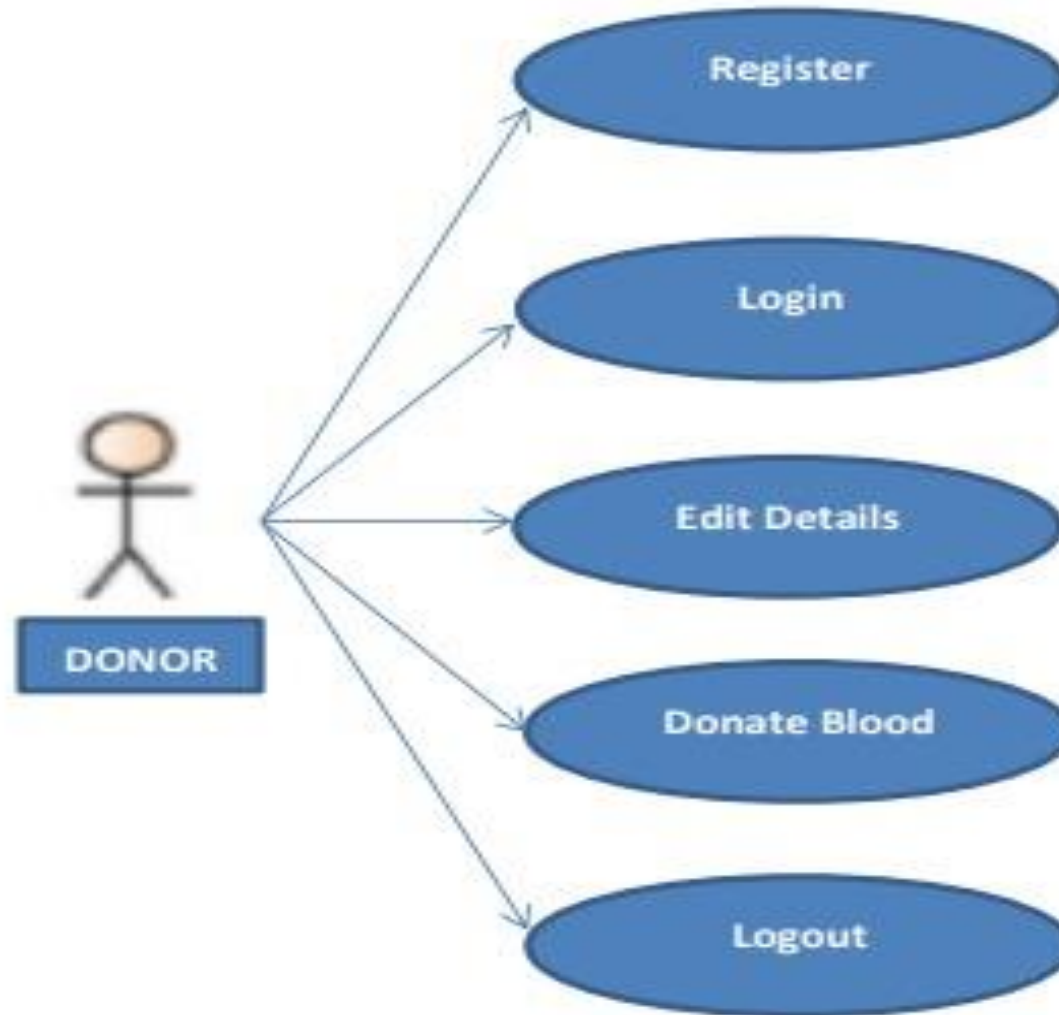


# Project: Use Case Diagram

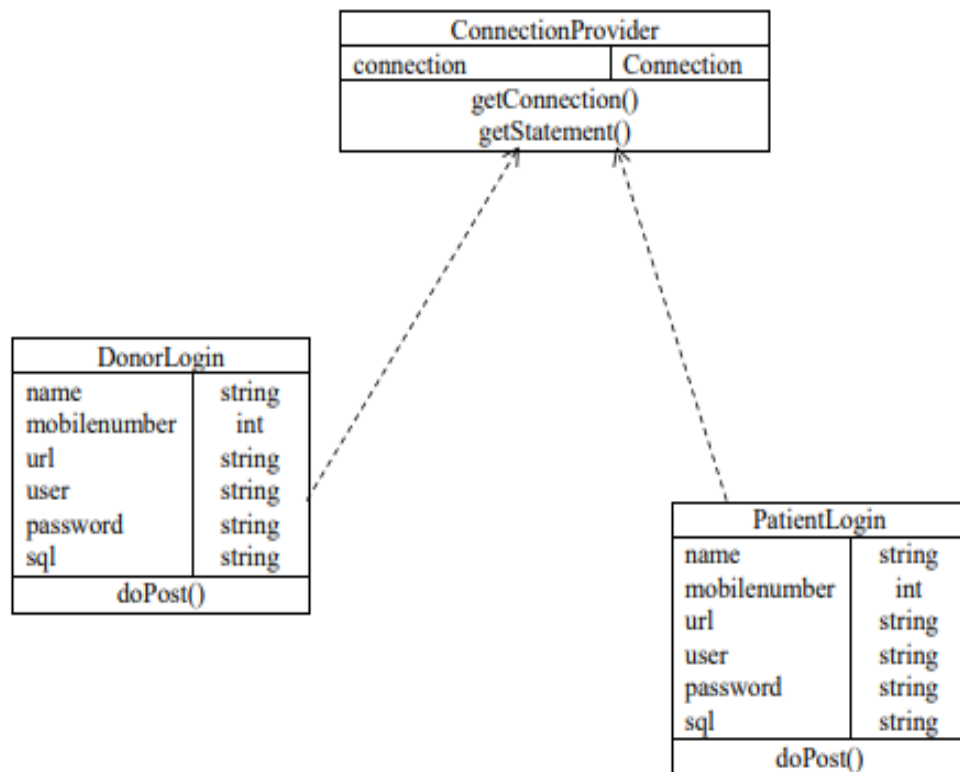




# Project: Use Case Diagram



# Project : Class Diagram



## Project: Future Scope & Conclusion



- ▶ The Blood Bank Management System serves as a bridge between donors and patients, ensuring that the critical need for blood is met effectively and efficiently. By connecting these stakeholders through a user-friendly digital platform, the project aims to make a significant impact on the healthcare sector, ultimately contributing to the well-being of communities.

THANK YOU