

BLOODLINE

Group Members:

- 1.Namrata Godse(250245920031)
- 2.Himanshu Dapurkar(250245920032)
- 3.Prajwal Hattewar(250245920064)
- 4.Saurav Deshmukh(250245920078)
- 5.Sayali Thombare(250245920079)





Introduction

In emergencies, the gap between a willing blood donor and a patient in need can mean the difference between hope and heartbreak. Our Blood Donation and Matching System website named as “BLOODLINE” bridges that gap with technology. This platform connects donors, recipients, and healthcare providers through real-time data, smart matching algorithms, and a streamlined donation process ensuring that the right blood reaches the right hands at the right time. It's more than just a website it's a digital lifeline for those in need.





Problem Statements

1. Difficulty in finding nearby blood banks in emergencies.
2. No real time visibility of blood availability.
3. Manual Co-ordinations with blood banks





Solutions

01.

Enables blood donor, blood banks and requesters to connect via web.

02.

Route blood request to nearby blood banks

03.

Notify donors after 3 months for blood donation.



Goals/Objectives

01

Develop a user-friendly web platform to streamline blood donation and request processes nationwide.

02

To help receivers to make request based on blood group and send the request to nearby blood banks.

03

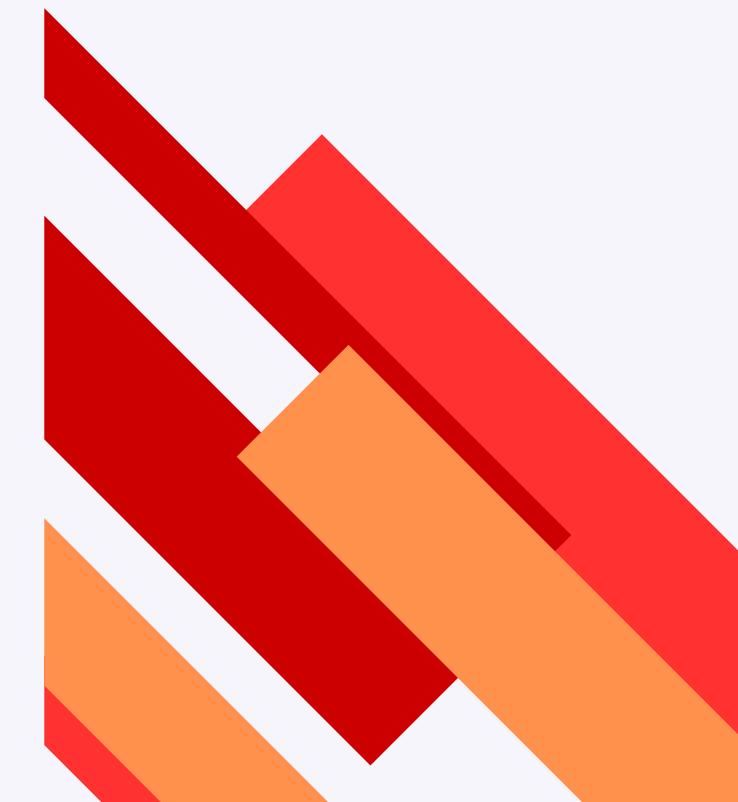
To allow donors to register, find nearby blood banks for donation.

04

To provide blood bank admins with a system to check the blood inventory and respond to requests.

05

To let the super admin manage users and track system activities.





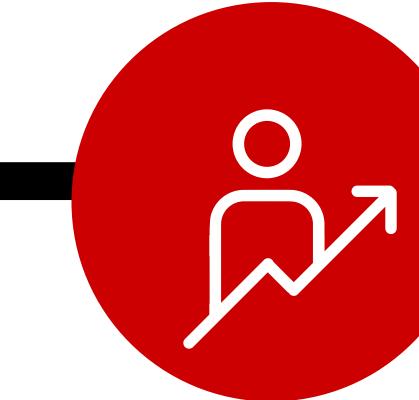
Key Features



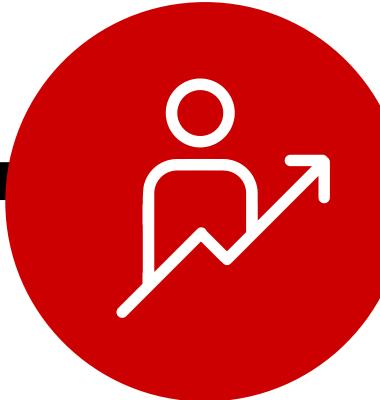
User registration with role based selection.



Inventory management for blood banks and real time blood availability display.



Blood requests routing to nearby blood banks.



Automated donor remainder after 3 months of donation.



Technology Stack

Frontend

React Js.

Backend

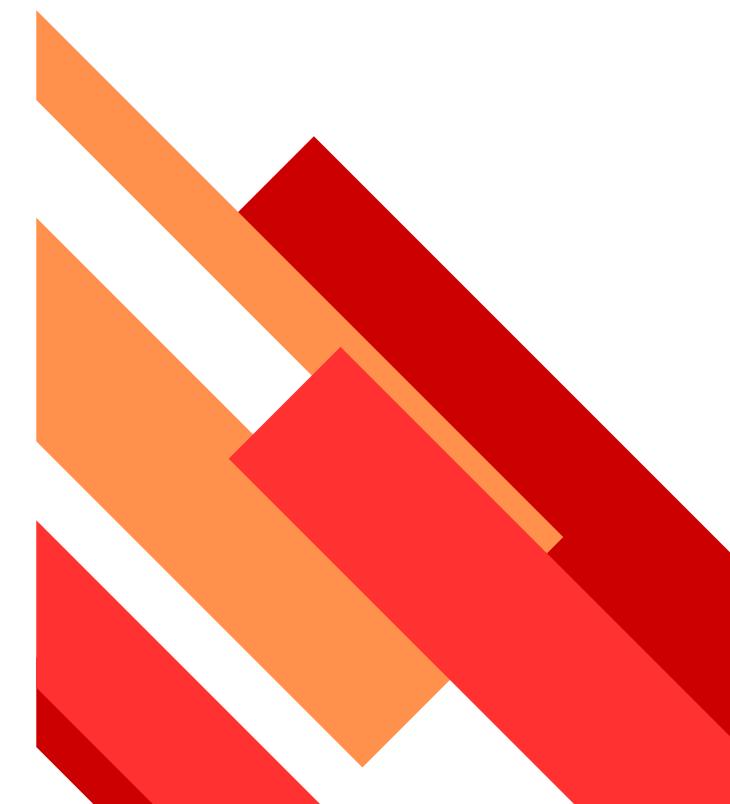
.NET Core

Database

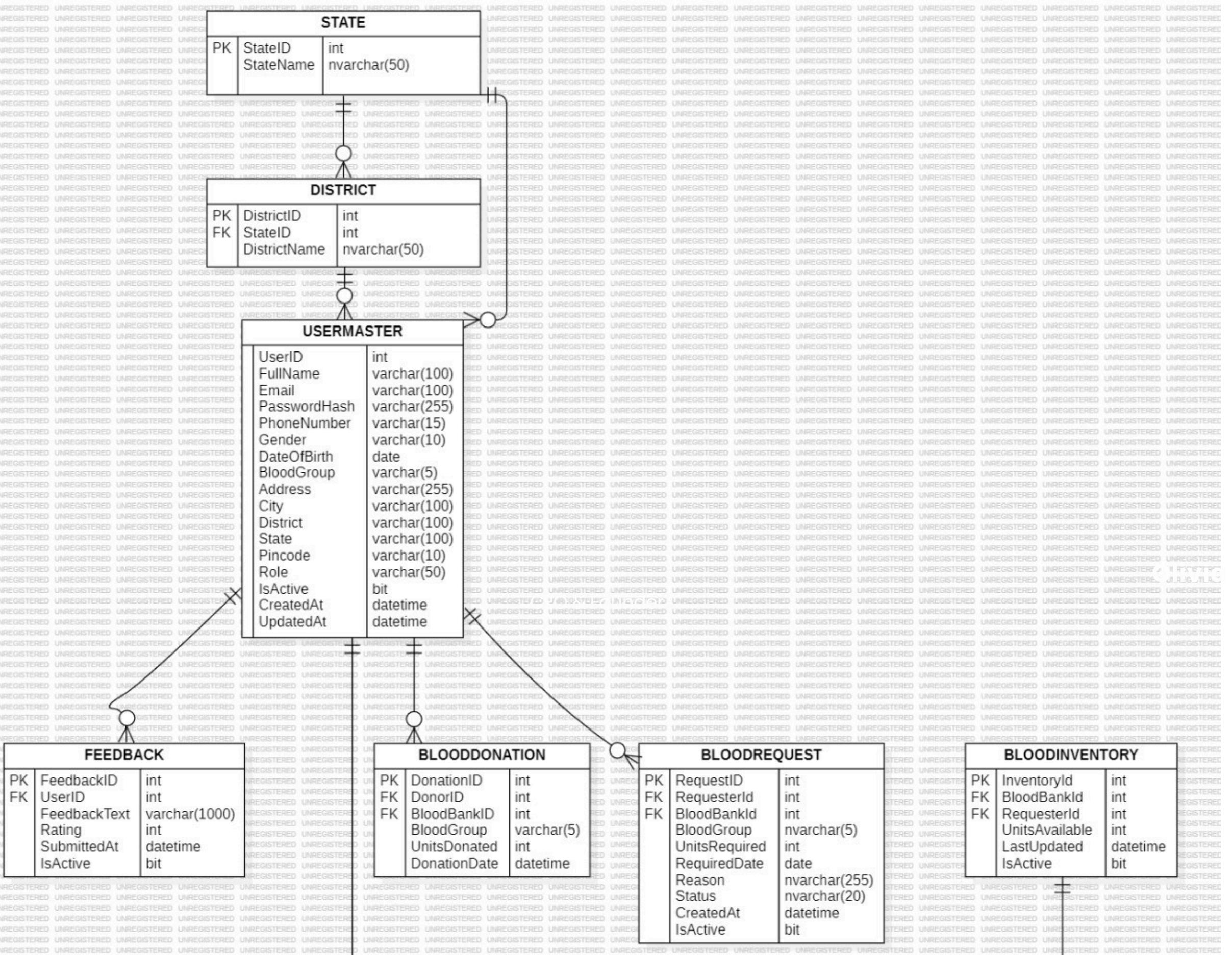
MS SQL

Tools

Visual Studio, VS Code, Git , GitHub,
SQL Server Management Studio



Entity-Relationship Diagram



Use-Case Diagram - Donor

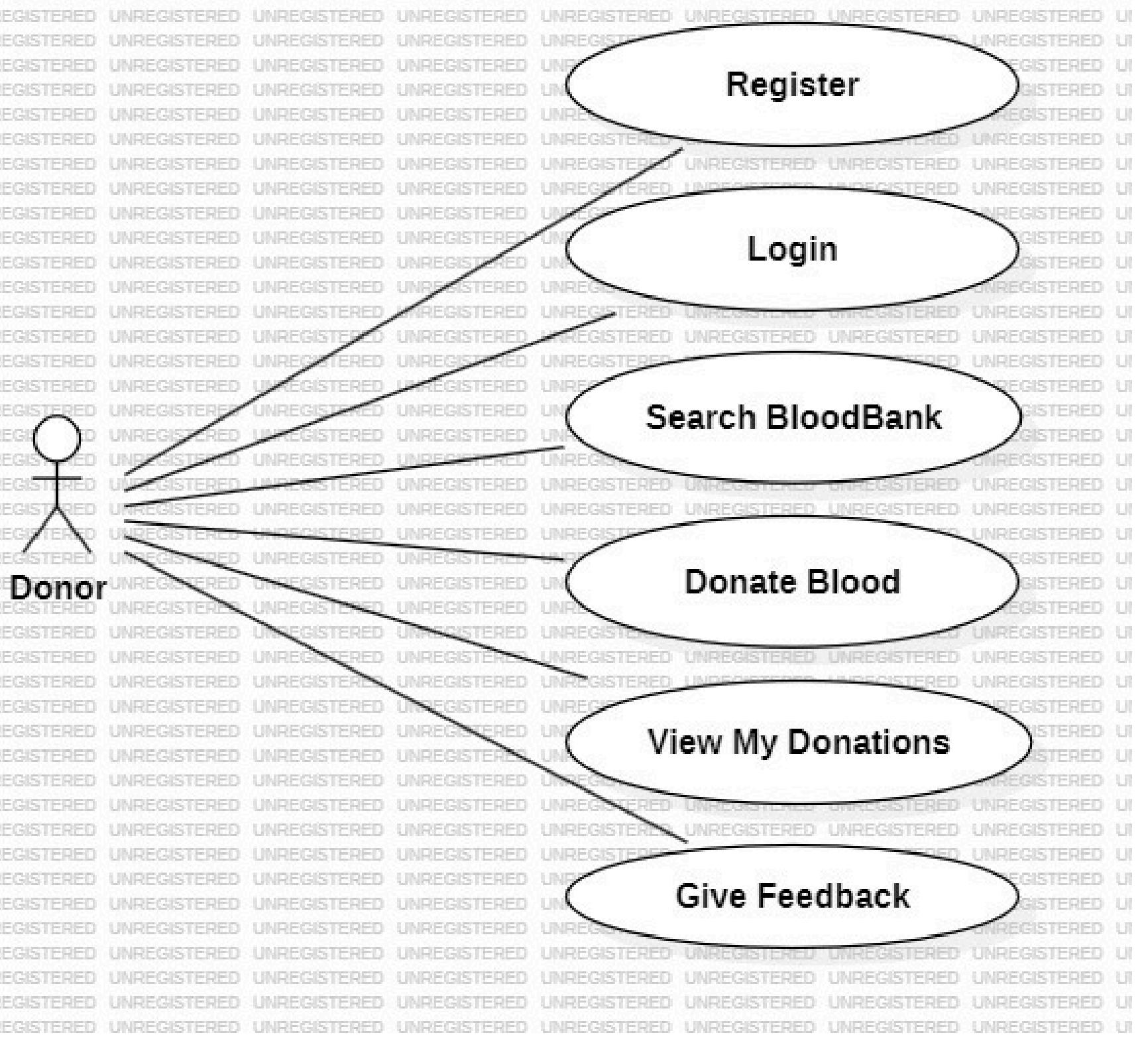
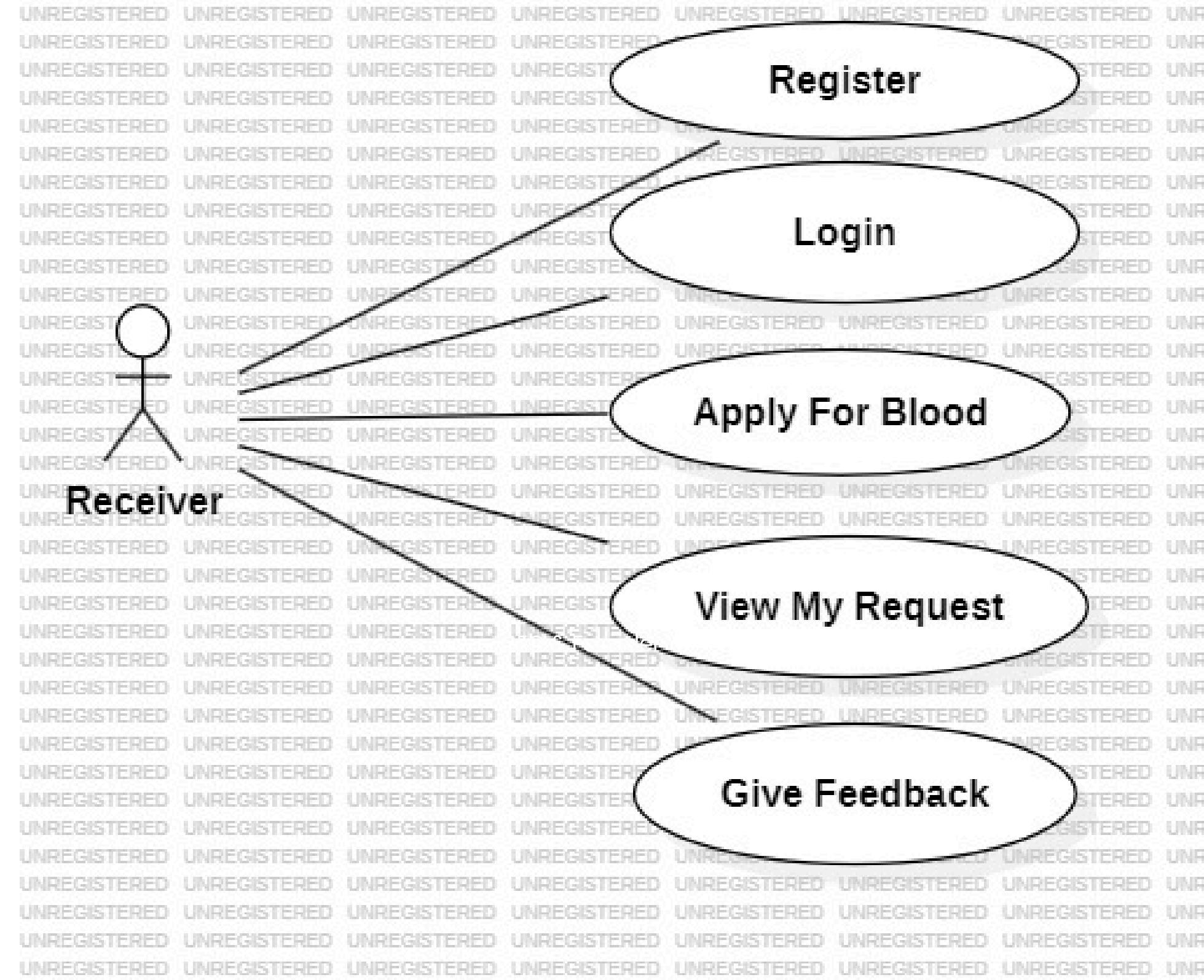


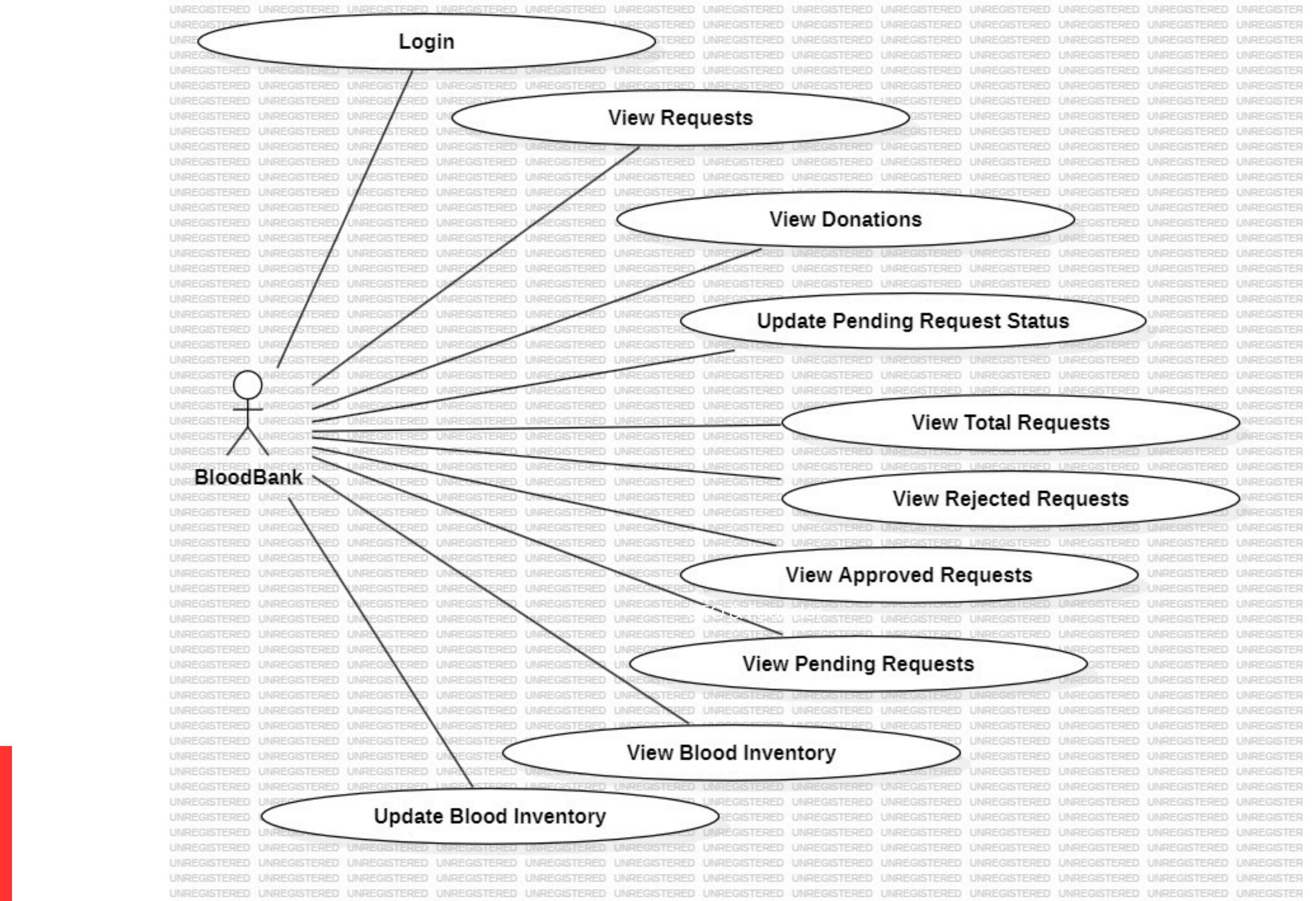
CHART WIDGET



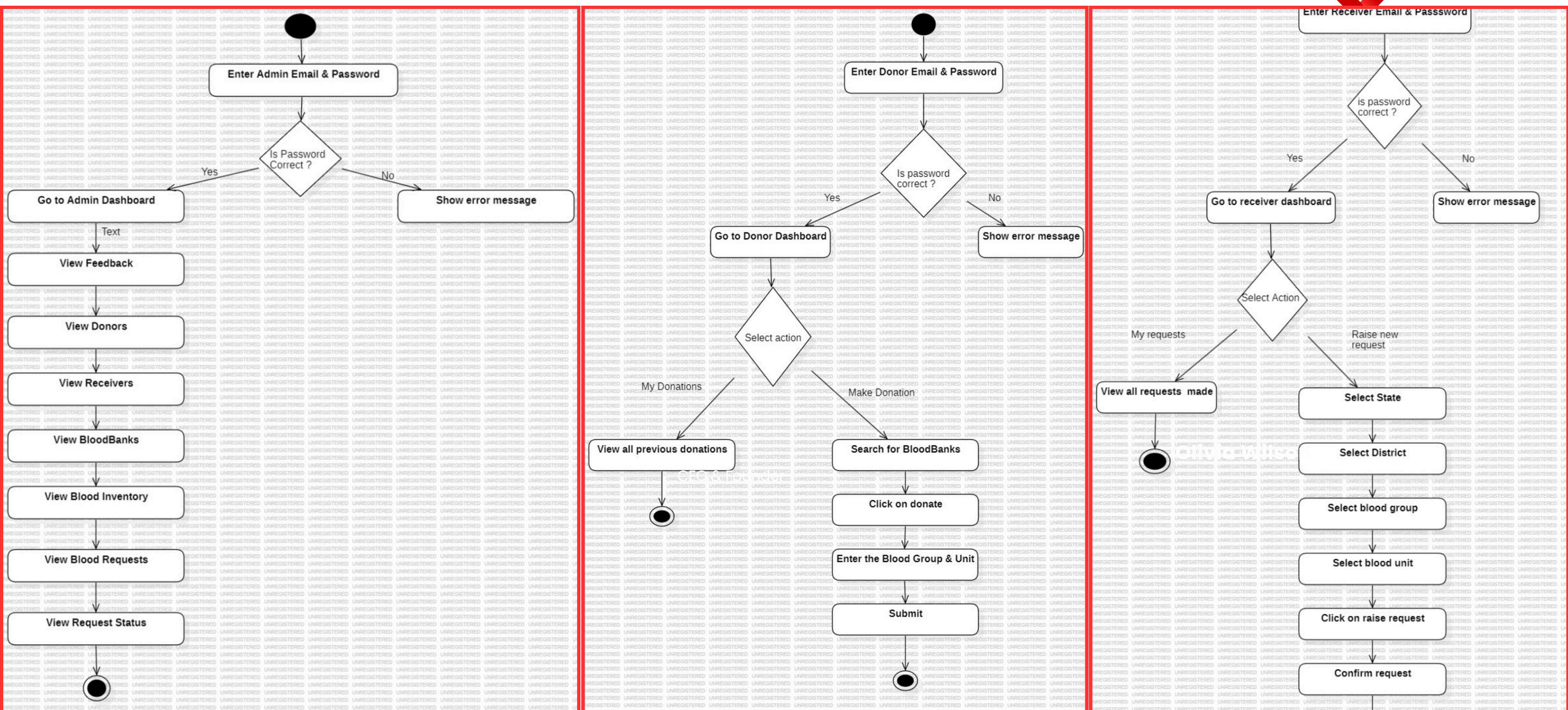
Use-Case Diagram - Receiver



Use-Case Diagram - BloodBank



Activity Diagram

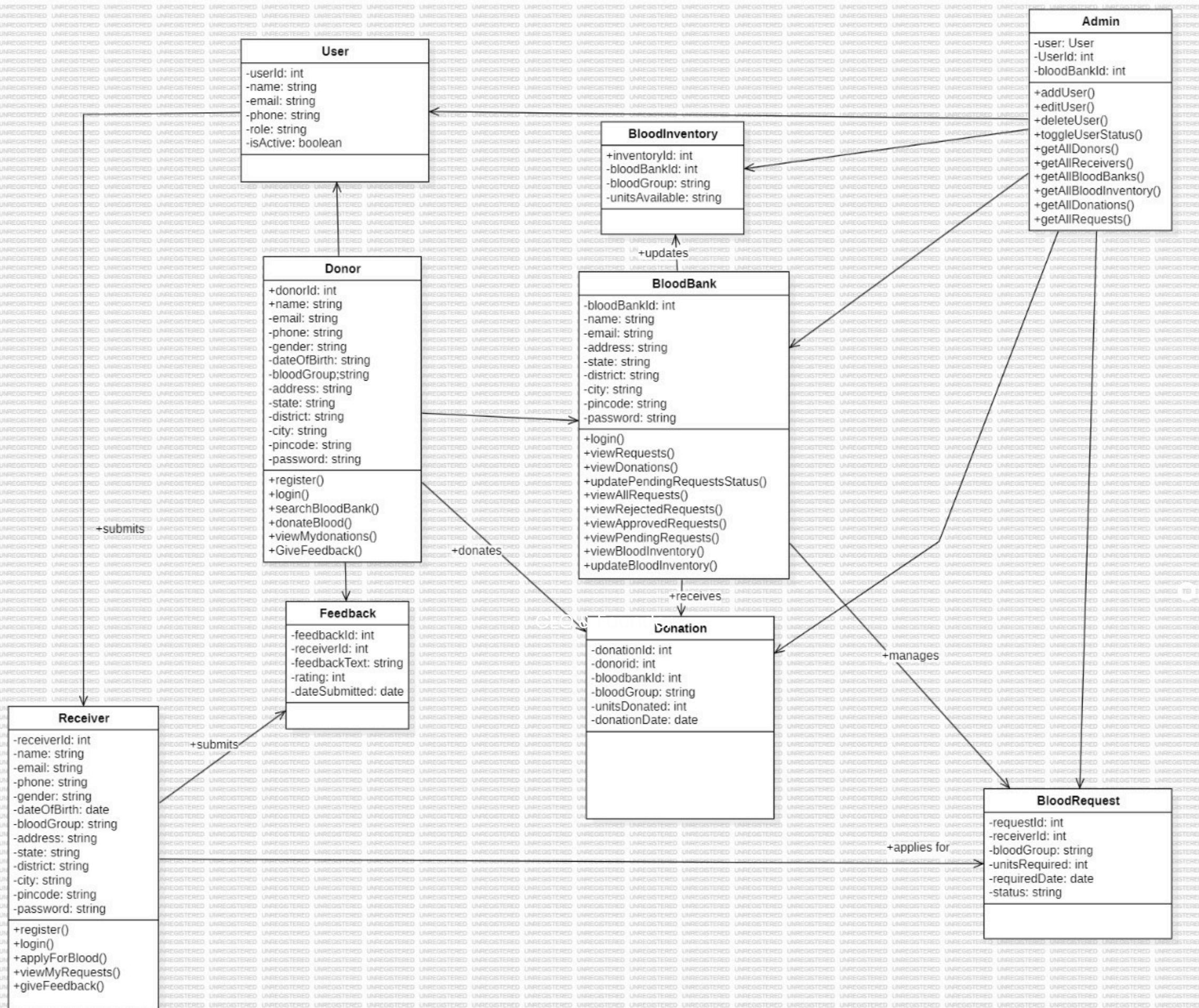


Admin

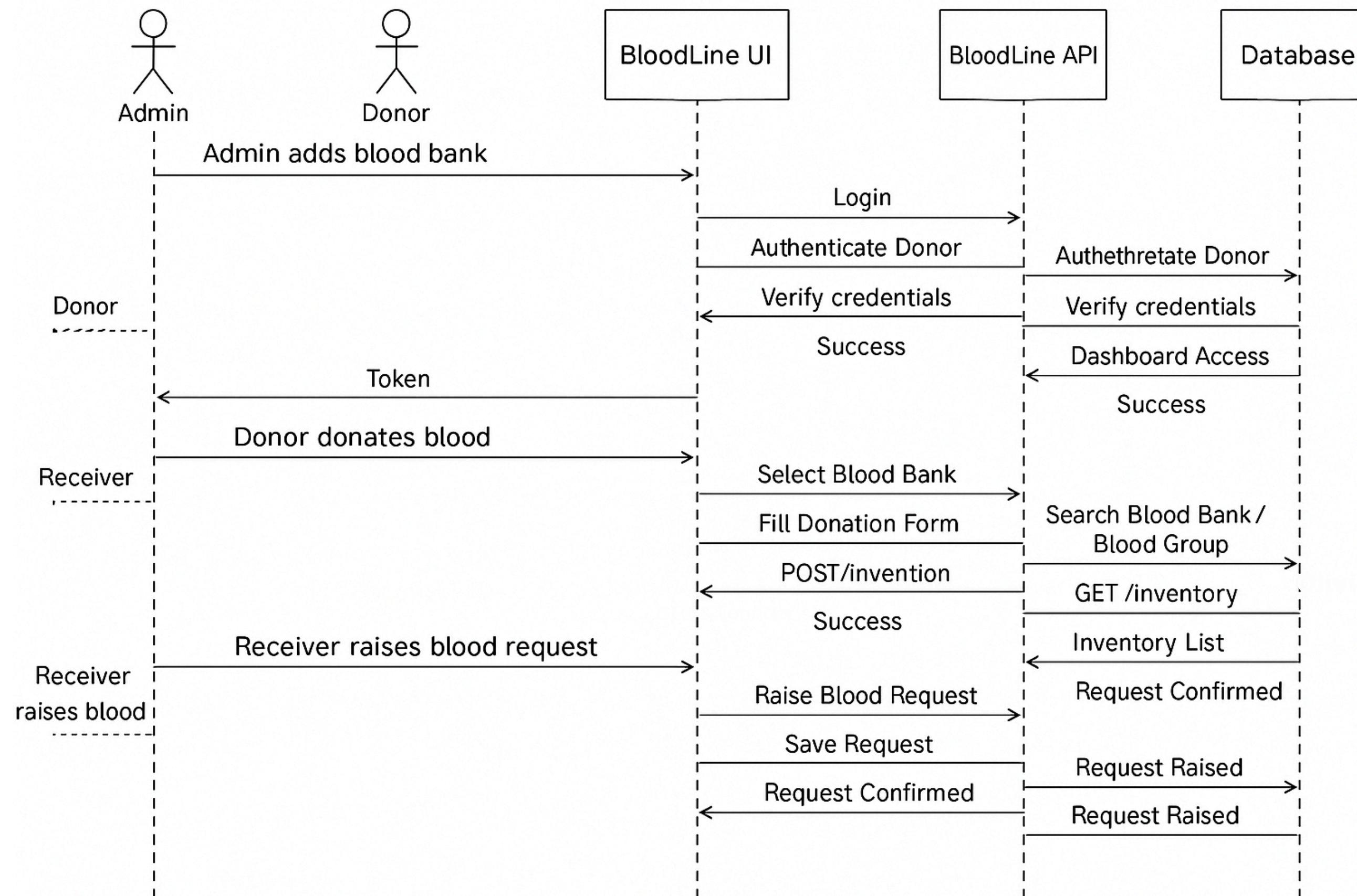
Donor

Recevier

Class Diagram



Sequence Diagram





THANK YOU

