Ahsanullah   University of Science & Technology

Department of Computer Science & Engineering

Project Report

Course No   : CSE3104

Course Title   : Database Lab

Blood Bank Management System

Lab Group: A₂

Group Members:

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Description:

The objective of this project is to manage the system of a Blood Bank. It keeps donors' details, blood component stock details, blood request details, and recipients' details. It has many features. They're given below:
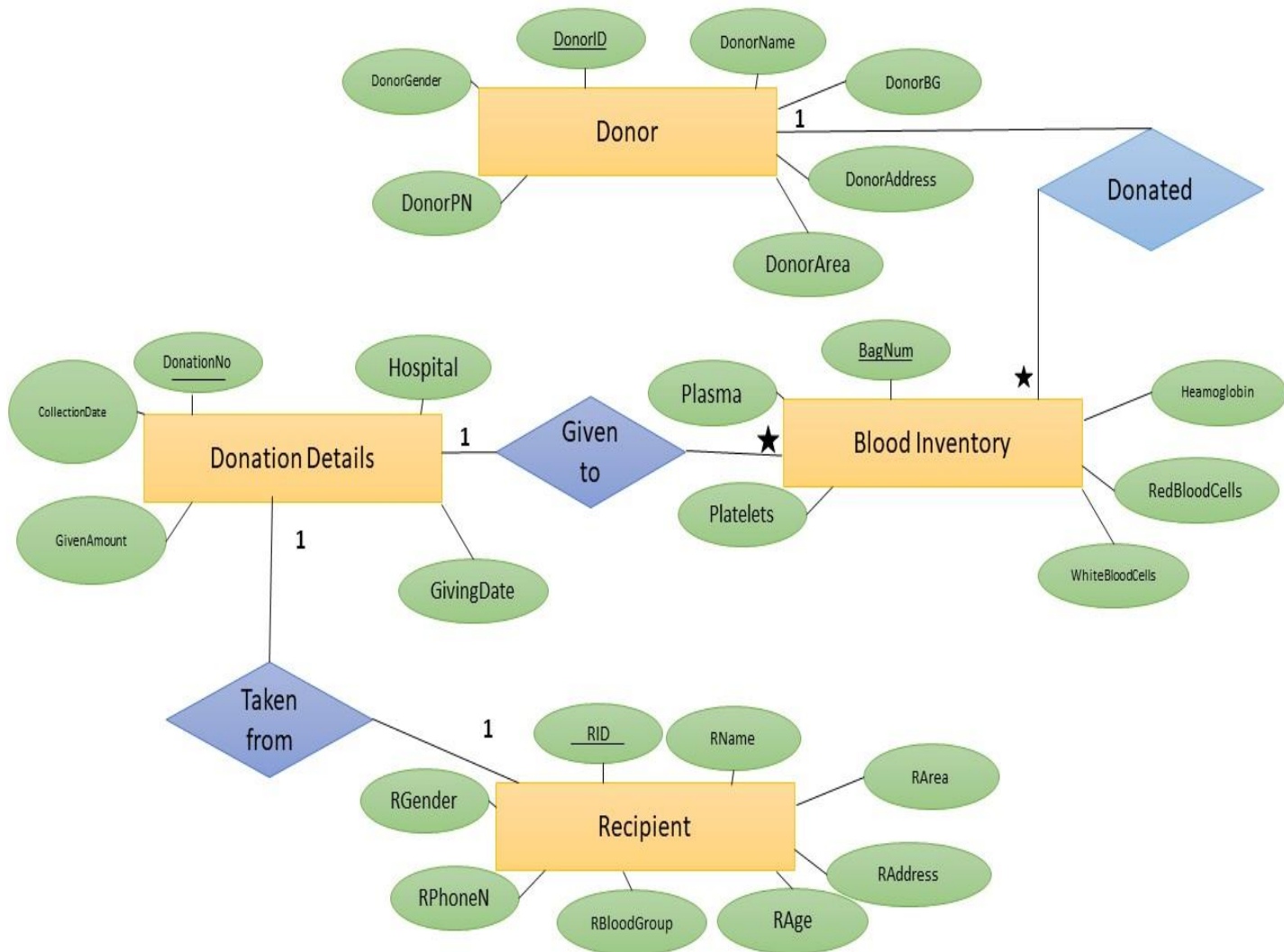
Features:

1. **Login:** Management worker has to login to manage the whole management system by using this feature.

2. **Homepage:** After login the homepage appears. From this page, we can access all the other four features of this project.

3. **DONOR:** We can insert donor's mandatory informations by using this feature. Here, we can also see the list of all available donors who are connected to our management system. Even, we can update donor's information if there is any change. Also we can delete donor's information if the donor is no longer connected to our management system. We can search for donors by their name, area and blood group. In this feature, we can find out which donor is eligible for blood donation.

4. **Blood Info:** We can insert the information of donor's blood components by using this feature. Here, we can also see the list of the information of all the available donors' blood components who are connected to our management system. Even, we can update donor's blood components' information if there is any change. Also we can delete donor's blood

information if the donor is no longer connected to our management system.

5. **<u>Donation Details:</u>** We can insert the information about the donated blood to a hospital by using this feature. Here, we can see the records of regular blood donation. Besides, we can see the records of plasma donation for covid to the hospitals in this feature. Even, we can update donation information if there is any change. Also we can delete donation record if the donation no longer exists.

6. **<u>Recipients:</u>** We can insert recipient's necessary information by using this feature. We can see all the records of each recipient. Even, we can update recipient's information if there is any change. Also we can delete recipient's record if the recipient is no longer connected to our management system. We can see the records of all the supplies that has made.

ER Diagram:

Relational Schema:

1. **Donor and Blood Inventory:** One to Many
2. **Blood Inventory and Donation Details:** Many to One
3. **Donation Details and Recipient:** One to One

IDE:

1. Netbeans 8.2
2. Microsoft SQL Server Management Studio

Languages:

1. Java
2. SQL

Jar Files:

1. Sqljdbc42.jar
2. AbsoluteLayout.jar