

# Project Report DBMS

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## Main Objective:

A portal for allowing users to donate and receive blood at scheduled date and time which also keeps track of amount of blood of various blood groups stored in the hospitals.

## Features implemented:

### Donate Blood:

- > Schedule appointments to donate blood.
- > Keep track of scheduled donate appointments in “Appointments” drop down menu.
- > Won't let users with permanent diseases to donate blood.
- > Won't let users with temporary conditions such as flu, pregnancy etc. to donate blood.
- > Won't let users to schedule appointments prior to the current date of the computer.
- > Won't let minors and senior citizens(>65) to donate blood.

### Receive Blood:

- > Schedule appointments to receive blood.
- > Keep track of scheduled receive appointments in “Appointments” drop down menu.

-> Won't let users to schedule appointments prior to the current date of the computer and 2 days after the current date of the computer (This is done to help users with immediate requirements to receive blood).

-> Max amount of blood that could be received by a recipient is limited to 10 units (Amount required for total transfusion).

-> Giving appointments based on compatibility table attached below if stock isn't available at a particular hospital program will prompt the user to select other hospitals.

RED BLOOD CELL COMPATIBILITY TABLE								
Recipient	Donor							
	O-	O+	A-	A+	B-	B+	AB-	AB+
O-	✓	✗	✗	✗	✗	✗	✗	✗
O+	✓	✓	✗	✗	✗	✗	✗	✗
A-	✓	✗	✓	✗	✗	✗	✗	✗
A+	✓	✓	✓	✓	✗	✗	✗	✗
B-	✓	✗	✗	✗	✓	✗	✗	✗
B+	✓	✓	✗	✗	✓	✓	✗	✗
AB-	✓	✗	✓	✗	✓	✗	✓	✗
AB+	✓	✓	✓	✓	✓	✓	✓	✓

### Appointments:

-> Appointments drop down menu allows users to keep track of scheduled appointments.

### Help:

-> Helps the user to know all the functionalities of the program

### Profile:

-> Allows user to log into their profiles

-> Allows users to update their profile and change details and password.

### **Home Page:**

-> Displays welcome message to the user depending upon His/her name.

-> Displays information of all the hospitals in a city as well as the stock of various blood group stored in the hospital.

-> Filters the hospitals being displayed based on the city, area and hospital name selected in the combo box.

### **Schema of the tables:**

#### User Table:

-> Stores the information provided by the user during signup

-> "UserId" is the primary key generated automatically by the program

-> The rest of the attributes are taken as input from the user and stored in the table

#### Hospitals Table:

-> Stores the information of the hospitals

-> "HosId" is the primary key manually given by the programmer

-> Rest of the attributes were entered by the programmer

#### donorappointments Table:

-> Stores the scheduled appointments of the donor

-> "DID" is the primary key generated automatically by the program

-> "UserId" is the foreign key which references the primary key of the User in "User" table

-> Rest of the attributes are taken as input from the user and stored in the table

#### recipientappointments Table:

-> Stores the scheduled appointments of the recipient

-> "RID" is the primary key generated automatically by the program

-> "UserId" is the foreign key which references the primary key of the User in "User" table

-> Rest of the attributes are taken as input from the user and stored in the table

```
mysql> desc user;
```

Field	Type	Null	Key	Default	Extra
UserID	int	NO	PRI	NULL	
FirstName	varchar(50)	YES		NULL	
LastName	varchar(50)	YES		NULL	
FatherName	varchar(100)	YES		NULL	
DOB	varchar(20)	YES		NULL	
Gender	varchar(10)	YES		NULL	
MobileNumber	varchar(10)	YES		NULL	
BloodGroup	varchar(5)	YES		NULL	
Area	varchar(50)	YES		NULL	
city	varchar(50)	YES		NULL	
MedicalIssues	varchar(100)	YES		NULL	
Password	varchar(50)	YES		NULL	

2 rows in set (0.01 sec)

```
mysql> desc hospitals;
```

Field	Type	Null	Key	Default	Extra
HosID	int	NO	PRI	NULL	
Name	varchar(50)	YES		NULL	
Area	varchar(50)	YES		NULL	
City	varchar(50)	YES		NULL	
A+	decimal(6,2)	YES		NULL	
A-	decimal(6,2)	YES		NULL	
B+	decimal(6,2)	YES		NULL	
B-	decimal(6,2)	YES		NULL	
O+	decimal(6,2)	YES		NULL	
O-	decimal(6,2)	YES		NULL	
AB+	decimal(6,2)	YES		NULL	
AB-	decimal(6,2)	YES		NULL	

2 rows in set (0.00 sec)

```
mysql> desc donorappointments;
```

Field	Type	Null	Key	Default	Extra
DID	int	NO	PRI	NULL	
UserID	int	YES	MUL	NULL	
City	varchar(50)	YES		NULL	
Area	varchar(50)	YES		NULL	
Hospital	varchar(50)	YES		NULL	
DOA	varchar(50)	YES		NULL	
Time	varchar(30)	YES		NULL	
units	decimal(6,2)	YES		NULL	

```
3 rows in set (0.00 sec)
```

```
mysql> desc recipientappointments;
```

```
ERROR 1146 (42S02): Table 'bdms.recipientappointments' doesn't exist
```

```
mysql> desc recipientappointments;
```

Field	Type	Null	Key	Default	Extra
RID	int	NO	PRI	NULL	
UserID	int	YES	MUL	NULL	
City	varchar(50)	YES		NULL	
Area	varchar(50)	YES		NULL	
Hospital	varchar(50)	YES		NULL	
DOA	varchar(50)	YES		NULL	
Time	varchar(30)	YES		NULL	
units	decimal(6,2)	YES		NULL	

```
3 rows in set (0.00 sec)
```