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# **AVATHI ORGAN DONATION SYSTEM**

**A Report for the Evaluation 3 of Project 2**

*Submitted by*

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*of*

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**IN**

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**SCHOOL OF COMPUTING SCIENCE AND ENGINEERING**

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## **ABSTRACT**

The number of persons who are in need of organ and blood are increasing in large number day by day. In order to help people who are in need of organ and blood, AVATHI ORGAN DONATION SYSTEM can be used effectively for getting the details of organ donors having the same blood group and healthy medical condition, within the same city. With the help of AVATHI ORGAN DONATION SYSTEM people who are, having the thought of donating organ gets registered in AVATHI ORGAN DONATION SYSTEM giving his complete details.

AVATHI ORGAN DONATION SYSTEM is available to everyone easily. A person who likes to donate organ or blood gives his/her entire details i.e., fill in the registration form and can create a username with a password by which he/she can modify his/her details if there are any changes in his information given before.

AVATHI ORGAN DONATION SYSTEM also help's people who are in need of blood or organ by giving the details of the donors by searching, if at all there are no donors having the same group and within their own city they will be given the addresses with phone numbers of some contact person's in major cities who represent a club or an organization free of cost.

AVATHI ORGAN DONATION SYSTEM also helps the one who are in search of a particular organ or blood by simply getting registered here.

In this report, this paper discusses about the benefits of management of organ donation information system. Management database of organ donation information system plays an important role in the development of the project. In today's world of information most of the systems are transforming into the management information system. The paper is basically focussed on the organ donor database management information system. It discusses about the beneficiaries of the organ donor management information system. It plays a vital role in the blood bank as blood is the necessity of everyone and organ bank as organs which are required for transplantation.

**KEYWORDS** - Search, Upload, Area, Database Management System.

## **INTRODUCTION**

### **PROJECT OVERVIEW**

The number of persons who are in need of blood and organ are increasing in large number day by day. In order to help people who are in need of blood and organ, AVATHI ORGAN DONATION SYSTEM can be used effectively for getting the details of organ donors having the same blood group and healthy medical requirements, within the same city. With the help of AVATHI ORGAN DONATION SYSTEM people who are, having the thought of donating organ gets registered in AVATHI ORGAN DONATION SYSTEM giving his/her complete details.

AVATHI ORGAN DONATION SYSTEM is available to everyone easily. A person who likes to donate blood or organ gives his/her entire details i.e., fill in the registration form and can create a username with a password by which he/she can modify his/her details if at all there are any changes in his information given before. A person who is in need of organ or blood can also get registered on AVATHI ORGAN DONATION SYSTEM, if the person wants to get the information of donor at the earliest.

### **PROJECT DESCRIPTION**

This project is aimed to develop an online Organ Donation Information System. The entire project has been developed keeping the distributed client server computing technology, in mind.

The Organ Donation Agent is to create an e-Information about the donor. Through this application any person who is interested in donating the blood can register himself/herself. Moreover, if any general consumer wants to make request for organ or blood online, he/she

can also take help of this site.

Admin is the main authority who can do addition, deletion, verification and modification, if required.

The number of persons who are in need of organ are increasing in large number day by day. In order to help people who are in need of organ and blood, AVATHI ORGAN DONATION SYSTEM can be used effectively for getting the details of organ donors having the same blood group and healthy medical requirements, within the same city. With the help of AVATHI ORGAN DONATION SYSTEM people who are, having the thought of donating organ gets registered in AVATHIORGAN DONATION SYSTEM giving his complete details.

AVATHI ORGAN DONATION SYSTEM is available to everyone easily. A person who likes to donate blood gives her/his entire details i.e., fill in the registration form and can create a username with a password by which she/he can modify her/his details if at all there are any changes in his information given before.

AVATHI ORGAN DONATION SYSTEM also help people who are in need of organ and blood by giving the details of the donors by searching, if at all there are no donors having the same group and within their own city they will be given the addresses with phone numbers of some contact person's in major cities who represent a club or an organization with free of cost. People who want blood or organ can also register themselves on ORGAN DONATION SYSTEM so as to get the donor easily. The present project elucidates the following features.

- Registering the Donors/Recipient
- Modification of Donor/Recipient Information

- Searching a Donor
- Life Saving Contacts (in major cities)

The project has been planned to be having the view of distributed architecture, with centralized storage of the database. The WEB application for the storage of the data has been planned. Using the constructs of MySQL Server and all the user interfaces have been designed using the JSP technologies.

The database connectivity is planned using the “SQL Connection” methodology. The standards of security and data protective mechanism have been given a big choice for proper usage.

The application takes care of different modules and their associated reports, which are produced as per the applicable strategies and standards that are put forwarded by the administrative staff.

The entire project has been developed keeping in view of the distributed client server computing technology, in mind. The specification has been normalized up to 3NF to eliminate all the anomalies that may arise due to the database transaction that are executed by the general users and the organizational administration. The user interfaces are browser specific to give distributed accessibility for the overall system. The internal database has been selected as MySQL Server.

The basic constructs of table spaces, clusters and indexes have been exploited to provide higher consistency and reliability for the data storage. The MySQL server was a choice as it provides the constructs of high-level reliability and security. The total front end

was dominated using the JSP technologies. At all proper levels high care was taken to check that the system manages the data consistency with proper business rules or validations.

The database connectivity was planned using the latest “SQL Connection” technology provided by MySQL. The authentication and authorization were crosschecked at all the relevant stages.

## **System Analysis**

### **Software Requirement Specification (SRS)**

The software, Site Explorer is designed for management of web sites from a remote location.

## **INTRODUCTION**

### **Purpose**

The main purpose for preparing this document is to give a general insight into the analysis and requirements of the existing system or situation and for determining the operating characteristics of the system.

### **Scope**

This Document plays a vital role in the development life cycle (SDLC) and it describes the complete requirement of the system. It is meant for use by the developers and will be the basic during testing phase. Any changes made to the requirements in the future will have to go through formal change approval process.

## **DEVELOPERS RESPONSIBILITIES OVERVIEW**

The developer is responsible for:

- Developing the system, which meets the SRS and solving all the requirements of the system?
- Demonstrating the system and installing the system at client's location after the acceptance testing is successful.
- Submitting the required user manual describing the system interfaces to work on it and also the documents of the system.
- Conducting any user training that might be needed for using the system.  
Maintaining the system for a period of one year after installation.



## **Software Requirement Analysis**

### **Problem Definition**

### **Existing System**

- Cannot Upload and Download the latest updates.
- No use of Web Services and Remoting.
- Risk of mismanagement and of data when the project is under development.
- Less Security.
- No proper coordination between different Applications and Users.
- Fewer Users – Friendly

### **Disadvantages**

User friendliness is provided in the application with various controls.

1. The system makes the overall project management much easier and flexible.
2. Readily upload the latest updates, allows user to download the alerts by clicking the URL.
3. There is no risk of data mismanagement at any level while the project development is under process.
4. It provides high level of security with different level of authentication.

## **Proposed System**

To debug the existing system, remove procedures those cause data redundancy, make navigational sequence proper. To provide information about audits on different level and also to reflect the current work status depending on organization/auditor or date. To build strong password mechanism.

## **Advantages**

- User friendliness I provided in the application with various controls.
- The system makes the overall project management much easier and flexible.
- Readily upload the latest updates allows user to download the alerts by clicking the URL.
- It provides high level of security with different level of authentication.

## **Feasibility Study**

Preliminary investigation examines project feasibility, the likelihood the system will be useful to the organization. The main objective of the feasibility study is to test the Technical, Operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if they are unlimited resources and infinite time. There are aspects in the feasibility study portion of the preliminary investigation:

- Technical Feasibility
- Operation Feasibility
- Economic Feasibility

## **Technical Feasibility**

The technical issue usually raised during the feasibility stage of the investigation includes the following:

- Does the necessary technology exist to do what is suggested?
- Do the proposed equipment have the technical capacity to hold the data required to use the new system?
- Will the proposed system provide adequate response to inquiries, regardless of the number or location of users?
- Can the system be upgraded if developed?
- Are there technical guarantees of accuracy, reliability, ease of access and data security?

Earlier no system existed to cater to the needs of 'Secure Infrastructure Implementation System'. The current system developed is technically feasible. It is a web-based user interface for audit workflow at NIC-CSD. Thus, it provides an easy access to the users.

The database's purpose is to create, establish and maintain a workflow among various entities in order to facilitate all concerned users in their various capacities or roles. Permission to the users would be granted based on the roles specified. Therefore, it provides the technical guarantee of accuracy, reliability and security.

The software and hardware requirements for the development of this project are not many and are already available in-house at NIC or are available as free as open source. The work for the project is done with the current equipment and existing software technology. Necessary bandwidth exists for providing a fast feedback to the users irrespective of the number of users using the system.

### **Operational Feasibility**

Proposed projects are beneficial only if they can be turned out into information system. That will meet the organization's operating requirements. Operational feasibility aspects of the project are to be taken as an important part of the project implementation. Some of the important issues raised are to test the operational feasibility of a project includes the following

- Is there sufficient support for the management from the users?
- Will the system be used and work properly if it is being developed and implemented?
- Will there be any resistance from the user that will undermine the possible application benefits?

This system is targeted to be in accordance with the above-mentioned issues. Beforehand, the management issues and user requirements have been taken into consideration. So, there is no question of resistance from the users that can undermine the possible application benefits.

The well-planned design would ensure the optimal utilization of the computer resources and would help in the improvement of performance status.

## **Economic Feasibility**

A system can be developed technically and that will be used if installed must still be a good investment for the organization. In the economic feasibility, the development cost in creating the system is evaluated against the ultimate benefit derived from the new systems. Financial benefits must equal or exceed the costs.

The system is economically feasible. It does not require any addition hardware or software. Since the interface for this system is developed using the existing resources and technologies available at NIC, there is nominal expenditure and economic feasibility for certain.

## **Define the Modules and their functionalities**

### **The modules are involved**

#### **1. Administration**

In this module the Administrator has the privileges to add all the Blood Groups, Organs, Country, State, City, and Location. He can search all the info about the Donor or Recipient.

#### **User Account**

- AccountID
- Username
- Password

- UserDesc
- RoleID
- Active

### **Functionality**

- Association User Account with User Role.
- Association User Account with personal Details.
- Association User Account with Organ Donation Details.

## **2. DONOR**

Donor is that person who is interested in donating their blood so they can register themselves through this website. If any requirement comes then they will be contacted and they can donate their organ or blood.

Along with it they can search for the various organization locations wise and can also make request for blood or organ if needed

In this module the Donor has the privileges to Login, upload their details of all the Blood Groups, Organs, Country, State, City, and Location.

### **User Account**

AccountD

Username

Password

### **Functionality**

- Association User Account with User Role.
- Association User Account with personal Details.
- Association User Account with Organ Donation Details.

### **3.Recipient**

In this module the Donor has the privileges to Login, upload their details of all the Blood Groups, Country, State, City, and Location.

#### **User Account**

AccountID

Username

Password

#### **Functionality**

- Association User Account with User Role.
- Association User Account with personal Details.
- Association User Account with OrganDonation Details.

## IMPLEMENTATION DIAGRAMS

### Context Diagram

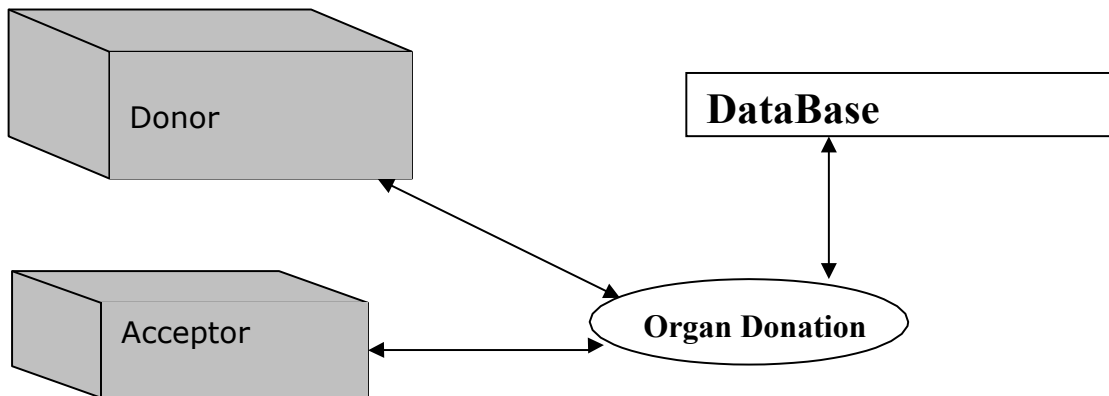
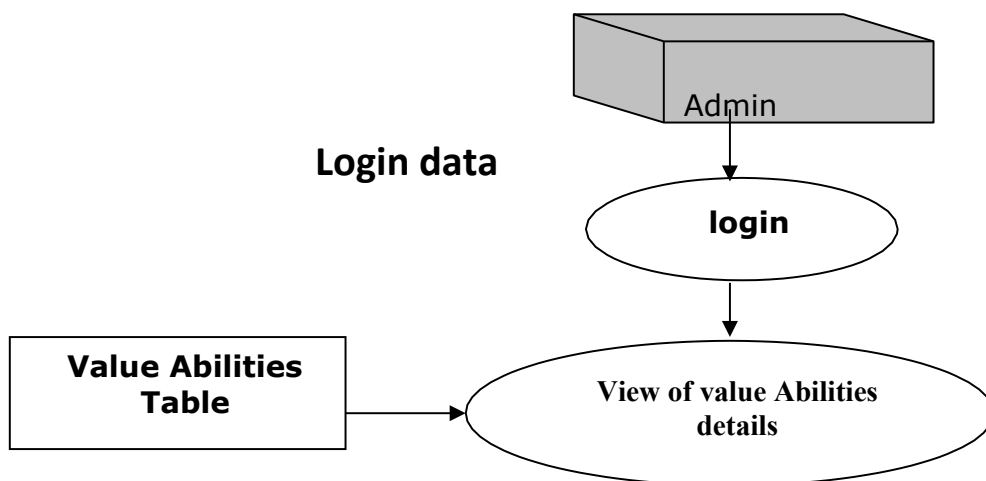


Figure 5.2 Context Diagram

### 1<sup>st</sup> Level DFD's

#### Level 1 DFD: For Admin Module





## DFD For Donor Creation

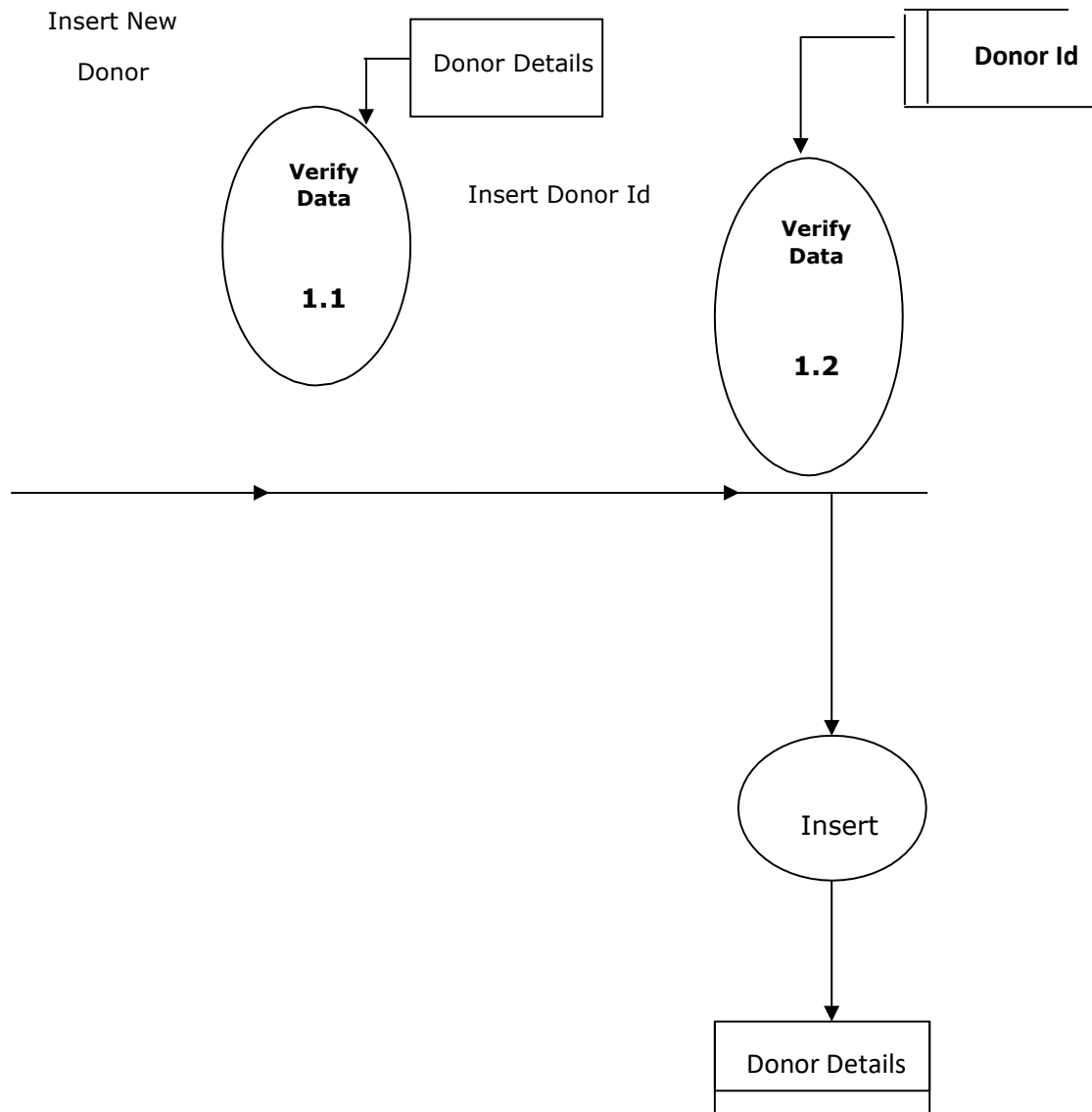
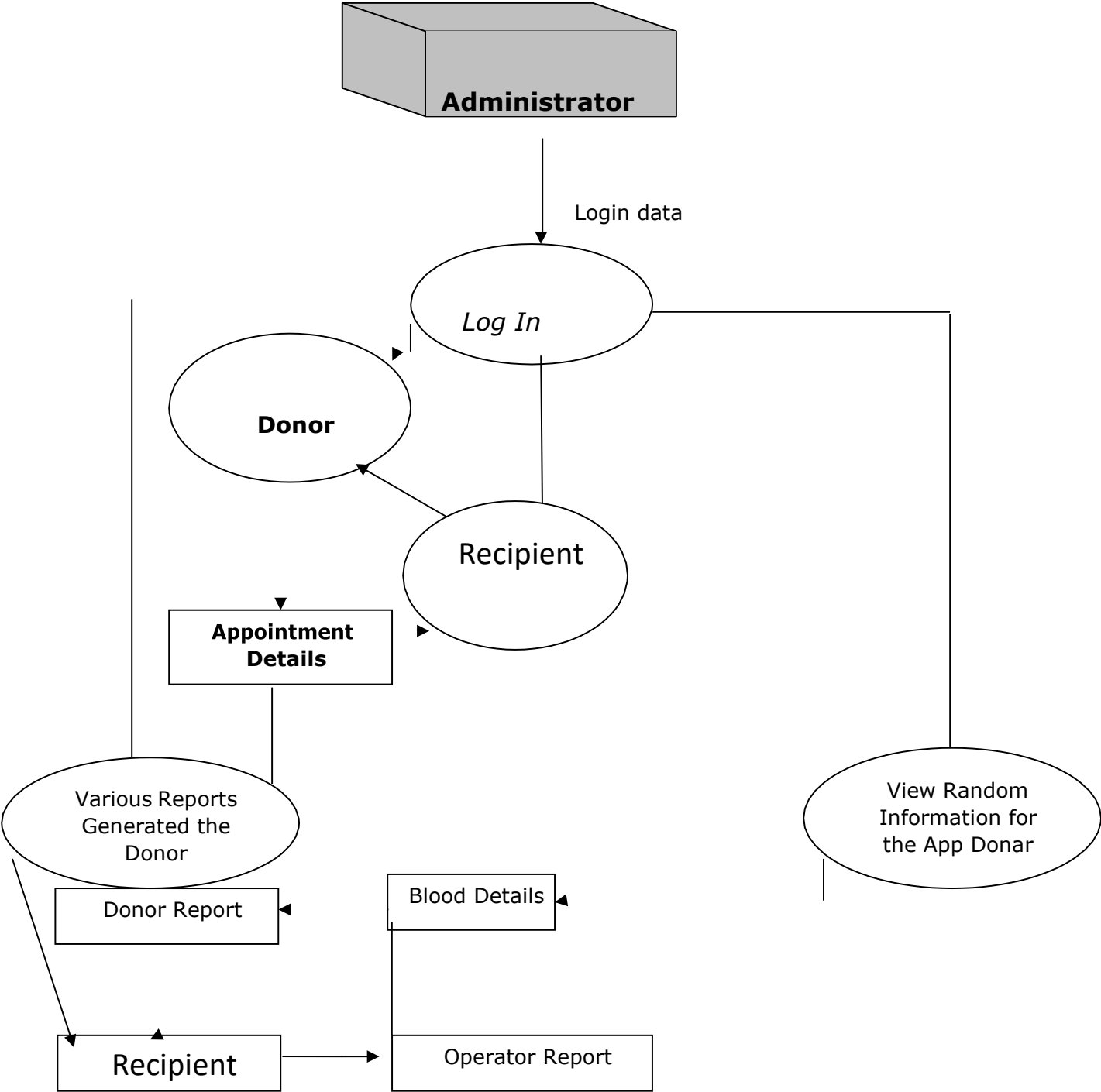


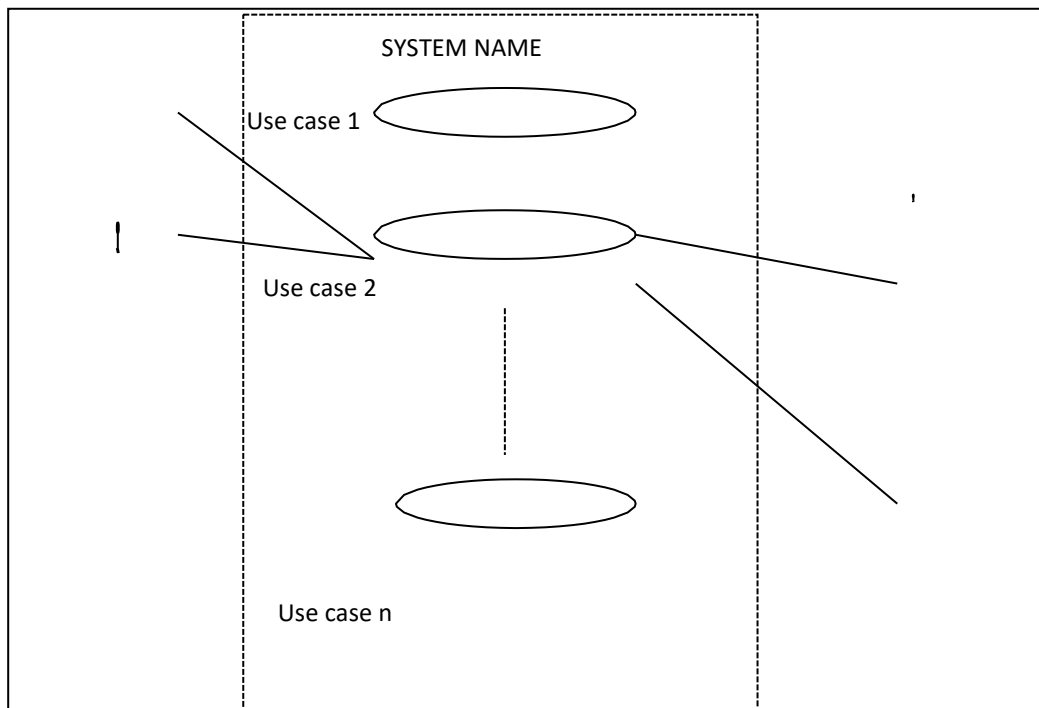
Figure 5.3 DFD For Donor Creation

**Work Flow of All Modules**



## UML Diagrams

### Use case Model



<i>Use case name</i>	Login
<i>Participating actors</i>	Admin, Donor, Recipient, Organization
<i>Flow of events</i>	The Actor will give the user name and password to the system. The system will verify the authentication.
<i>Entry Condition</i>	The actor will enter the system by using username and password

<i>Exit condition</i>	If un authenticated should be exited
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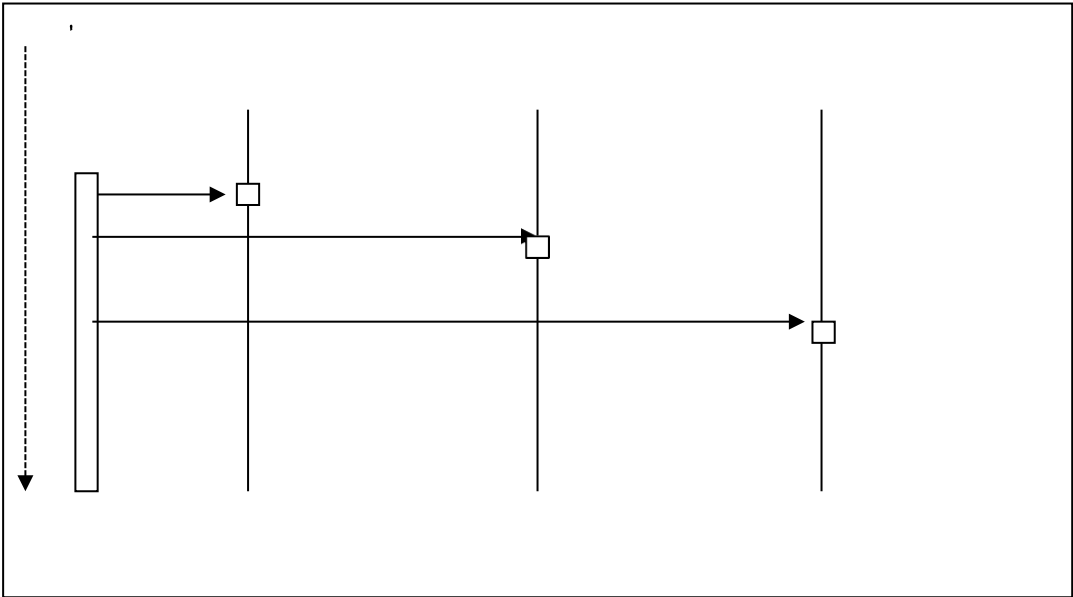
<i>Quality Requirements</i>	Password must satisfy the complexity requirements.
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<i>Use case name</i>	Admin Registration
<i>Participating actors</i>	Admin
<i>Flow of events</i>	The Admin will submit all the details and place in the application.
<i>Entry Condition</i>	Must satisfy all the norms given by the Blood Donation Agent interface site.
<i>Exit condition</i>	Successful or Un successful completion of creation of account.
<i>Quality Requirements</i>	All fields are mandatory.

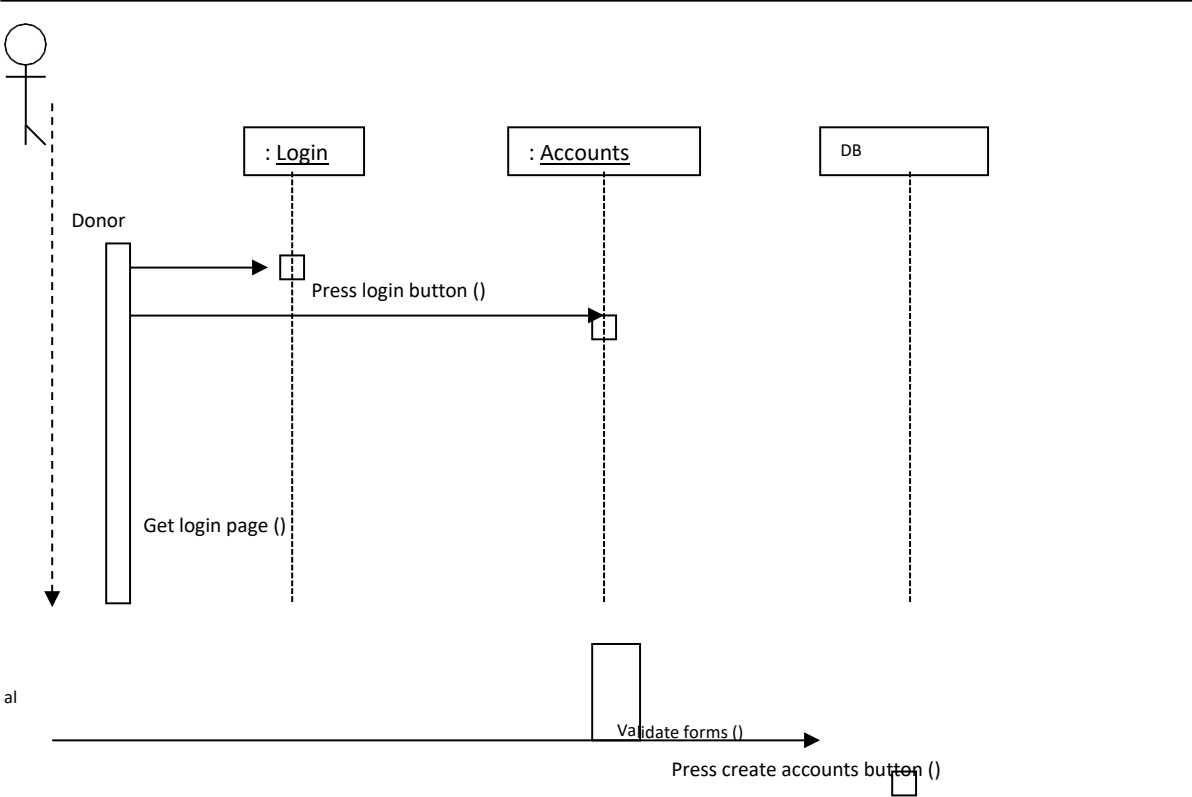
<i>Use case name</i>	Donor Registration
<i>Participating actors</i>	Donor
<i>Flow of events</i>	The Donor must enter all his personal details.
<i>Entry Condition</i>	View Home page
<i>Exit condition</i>	Registered Donor should be successfully logged out. Error Message should be displayed on Un successful creation.
<i>Quality Requirements</i>	Best Error Handling techniques. Check on Mandatory fields.

<i>Use case name</i>	Recipient Registration
<i>Participating actors</i>	Recipient
<i>Flow of events</i>	The Recipient must enter all his personal details.
<i>Entry Condition</i>	View Home page
<i>Exit condition</i>	Registered Recipient should be successfully logged out. Error Message should be displayed on Un successful creation.
<i>Quality Requirements</i>	Best Error Handling techniques. Check on Mandatory fields.

# SEQUENCE DIAGRAMS

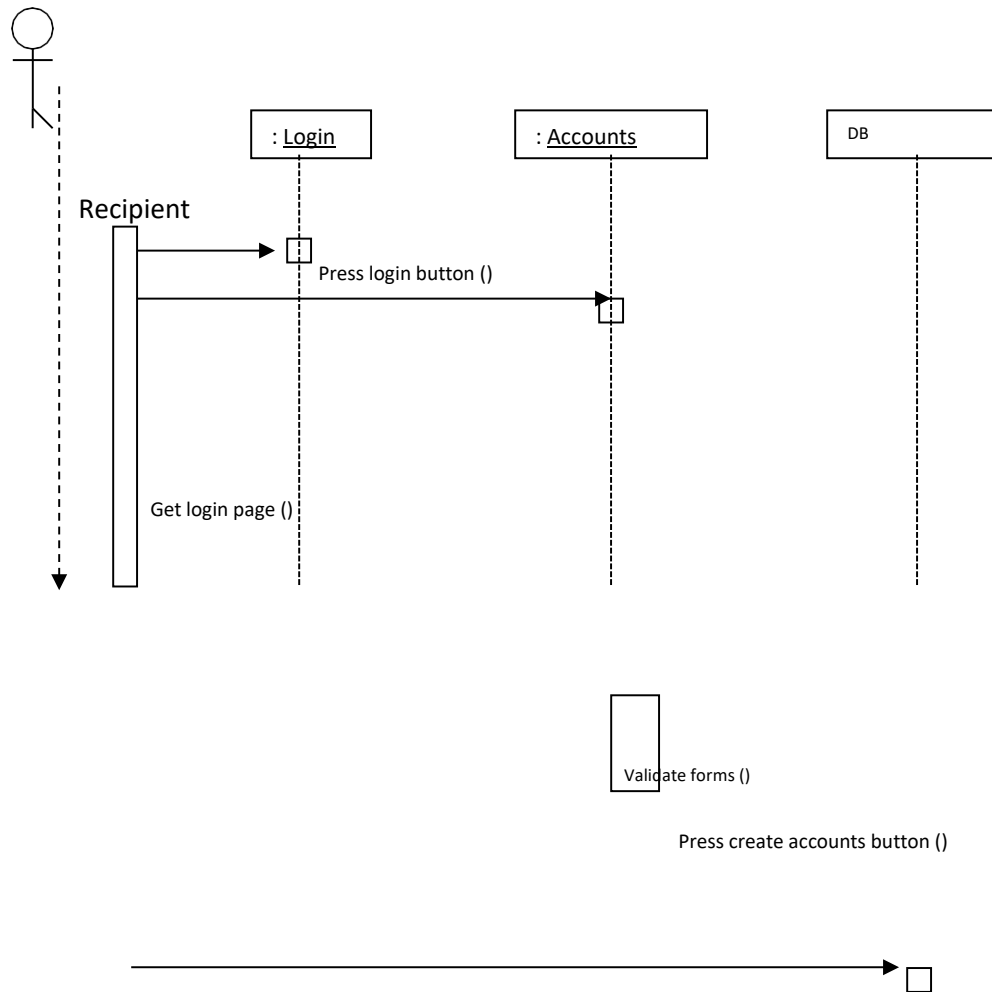


Sequence Diagram for Donor

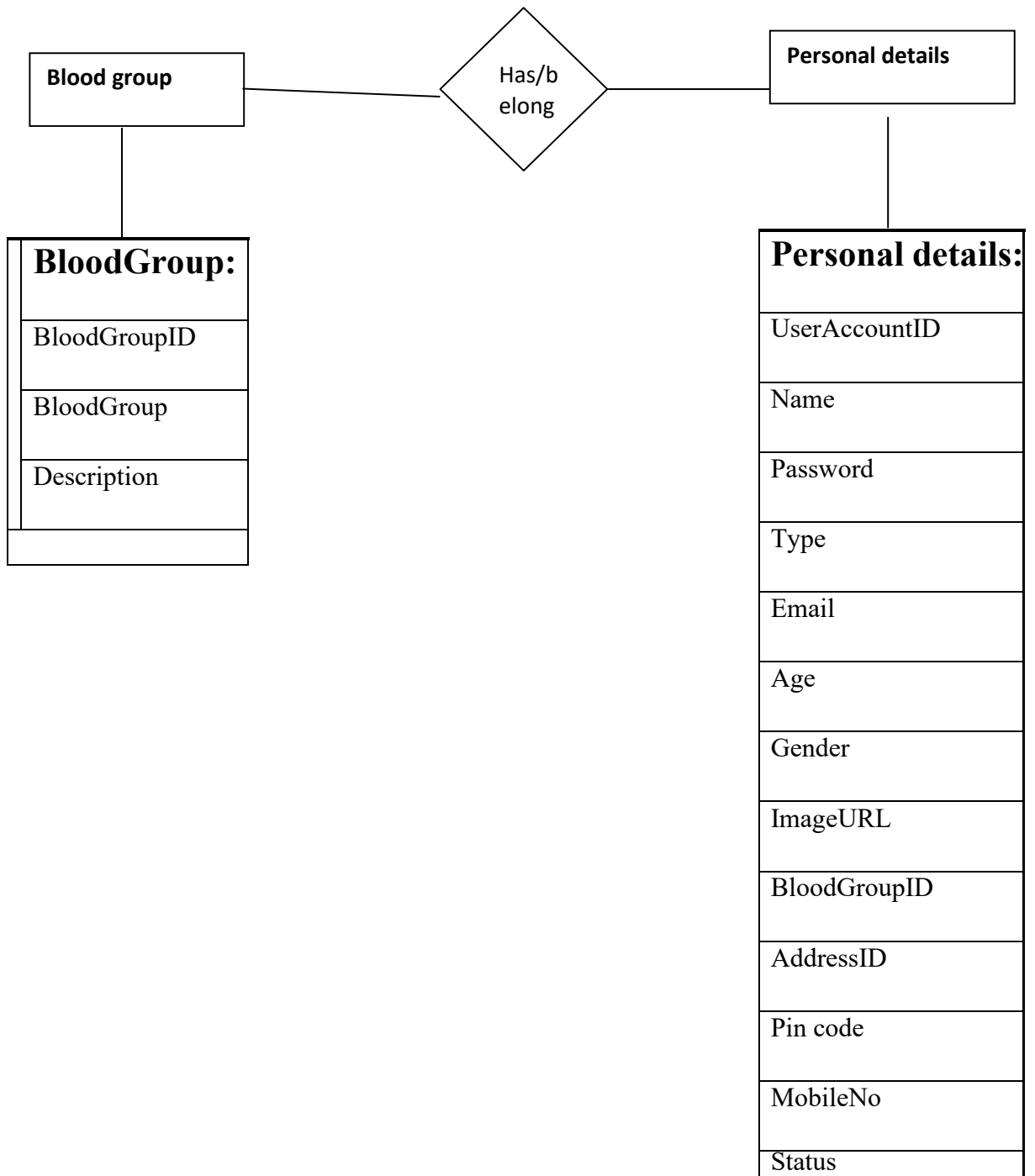


## Sequence Diagram for Recipient

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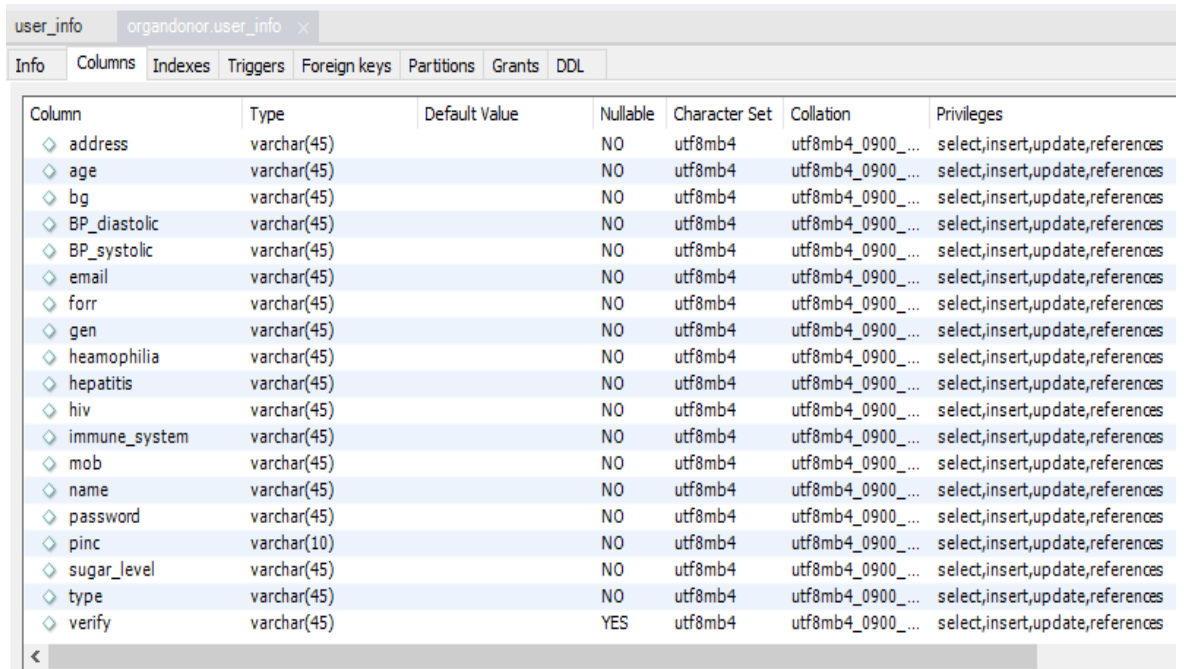
### ER diagram for Blood group and Personal details





## Table Used in Database

### The user\_info table

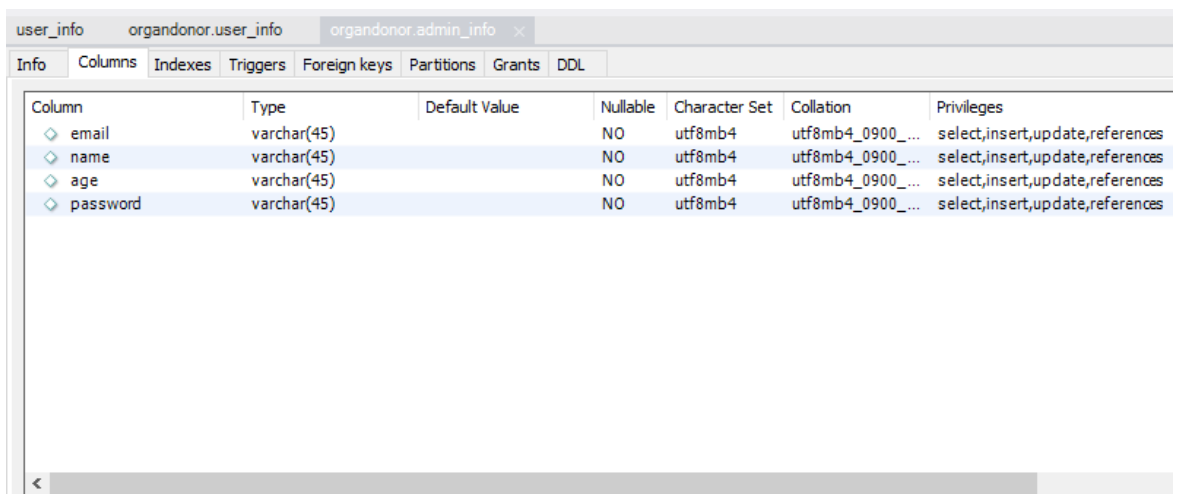


The screenshot shows a database management interface with a tab for 'organdonor.user\_info'. Below the tab are several menu items: Info, Columns, Indexes, Triggers, Foreign keys, Partitions, Grants, and DDL. The 'Columns' menu is selected, displaying a table with the following data:

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
address	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
age	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
bg	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
BP_diastolic	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
BP_systolic	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
email	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
forr	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
gen	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
heamophilia	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
hepatitis	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
hiv	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
immune_system	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
mob	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
name	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
password	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
pinc	varchar(10)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
sugar_level	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
type	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
verify	varchar(45)		YES	utf8mb4	utf8mb4_0900_...	select,insert,update,references

Figure User\_info table description

### The admin\_info table



The screenshot shows a database management interface with a tab for 'organdonor.admin\_info'. Below the tab are several menu items: Info, Columns, Indexes, Triggers, Foreign keys, Partitions, Grants, and DDL. The 'Columns' menu is selected, displaying a table with the following data:

Column	Type	Default Value	Nullable	Character Set	Collation	Privileges
email	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
name	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
age	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references
password	varchar(45)		NO	utf8mb4	utf8mb4_0900_...	select,insert,update,references

Figure Admin\_info

### The user\_info table sample


type	forr	email	name	age	gen	bg	BP_systolic	BP_diastolic	hiv	hepatitis	sugar_level	heamopt
RECIPIENT	blood	apurva@gmail.com	apurva	21	FEMALE	O+	90-130	60-100	negative	negative	70-90	no
DONOR	liver	atulya@gmail.com	atulya	35	MALE	B-	90-130	60-100	negative	negative	above 90	no
RECIPIENT	kidney	harish@gmail.com	harish	40	MALE	B+	90-130	below 60	negative	negative	70-90	no
DONOR	KIDNEY	kapil@gmail.com	kapil	30	MALE	A-	90-130	60-100	NEGATIVE	NEGATIVE	Below 70	NO
DONOR	BLOOD	ravi@gmail.com	ravi	35	MALE	B+	90-130	60-100	NEGATIVE	NEGATIVE	70-90	NO
RECIPIENT	blood	sana@yahoo.com	sana	26	FEMALE	O-	90-130	above 100	negative	negative	70-90	no
DONOR	KIDNEY	sania@gmail.com	sania	16	FEMALE	O+	90-130	60-100	NEGATIVE	NEGATIVE	70-90	NO
DONOR	kidney	shaan@gmail.com	shaan	30	MALE	O+	above 130	60-100	negative	positive	70-90	no
RECIPIENT	KIDNEY	simran@gmail.com	simran	21	FEMALE	B+	90-130	60-100	NEGATIVE	NEGATIVE	70-90	NO
RECIPIENT	blood	soha@gmail.com	soha	29	FEMALE	A-	90-130	60-100	negative	negative	70-90	no
RECIPIENT	BLOOD	tina@gmail.com	tina	22	FEMALE	O+	90-130	60-100	NEGATIVE	NEGATIVE	70-90	NO

BP_diastolic	hiv	hepatitis	sugar_level	heamophilia	immune_system	address	pinc	mob	password	verify
60-100	negative	negative	70-90	no	non-infectious	greater noida	123456	8789456123	Apurva@123	verified
60-100	negative	negative	above 90	no	non-infectious	nan delhi	100006	9123456789	Atulya@123	verified
below 60	negative	negative	70-90	no	non-infectious	tamilnadu	556456	7123456789	Harish@123	verified
60-100	NEGATIVE	NEGATIVE	Below 70	NO	Infectious	west bengal	894789	9818561545	Kapil@123	NULL
60-100	NEGATIVE	NEGATIVE	70-90	NO	Infectious	new delhi	110085	7523456524	Ravi@123	NULL
above 100	negative	negative	70-90	no	non-infectious	UP	100015	9456123789	Sana@123	verified
60-100	NEGATIVE	NEGATIVE	70-90	NO	Infectious	new delhi	110045	9877894561	Sania@123	NULL
60-100	negative	positive	70-90	no	non-infectious	kerala	646545	9789456123	Shaan@123	NULL
60-100	NEGATIVE	NEGATIVE	70-90	NO	Infectious	new delhi	110096	8826133217	Simran@123	NULL
60-100	negative	negative	70-90	no	non-infectious	gujarat	132465	8789456123	Soha@123	NULL
60-100	NEGATIVE	NEGATIVE	70-90	NO	Infectious	new delhi	110096	7891234567	Tina@123	NULL

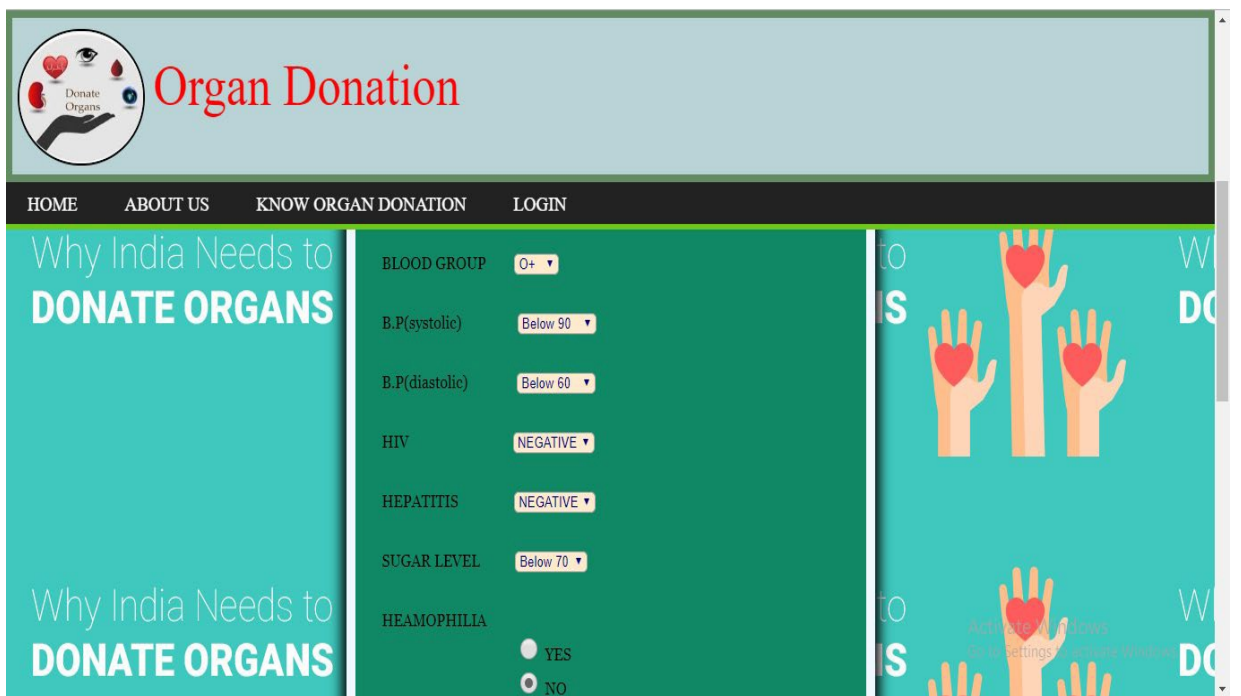
Figure 6.3 User\_info

## IMPLEMENTAION IMAGES

### Donor create an account and upload data



The screenshot shows the 'Organ Donation' website interface. The header includes a logo with a hand holding organs and the text 'Organ Donation'. The navigation menu contains 'HOME', 'ABOUT US', 'KNOW ORGAN DONATION', and 'LOGIN'. The main content area is split into three columns. The left column has the text 'Why India Needs to DONATE ORGANS'. The middle column is a registration form with the following fields: 'IMMUNE SYSTEM' (radio buttons for 'Infectious' and 'Non-Infectious'), 'ADDRESS' (text input), 'PINCODE' (text input), 'MOBILE NO.' (text input), and 'PASSWORD' (text input). A 'SUBMIT' button is at the bottom. The right column features an illustration of hands holding hearts and a watermark that reads 'Activate Windows Go to Settings to activate Windows'.



The screenshot shows the 'Organ Donation' website interface for the data upload step. The header and navigation menu are identical to the previous screenshot. The main content area is split into three columns. The left column has the text 'Why India Needs to DONATE ORGANS'. The middle column is a registration form with the following fields: 'BLOOD GROUP' (dropdown menu showing 'O+'), 'B.P(systolic)' (dropdown menu showing 'Below 90'), 'B.P(diastolic)' (dropdown menu showing 'Below 60'), 'HIV' (dropdown menu showing 'NEGATIVE'), 'HEPATITIS' (dropdown menu showing 'NEGATIVE'), 'SUGAR LEVEL' (dropdown menu showing 'Below 70'), and 'HEAMOPHILIA' (radio buttons for 'YES' and 'NO'). The right column features an illustration of hands holding hearts and a watermark that reads 'Activate Windows Go to Settings to activate Windows'.

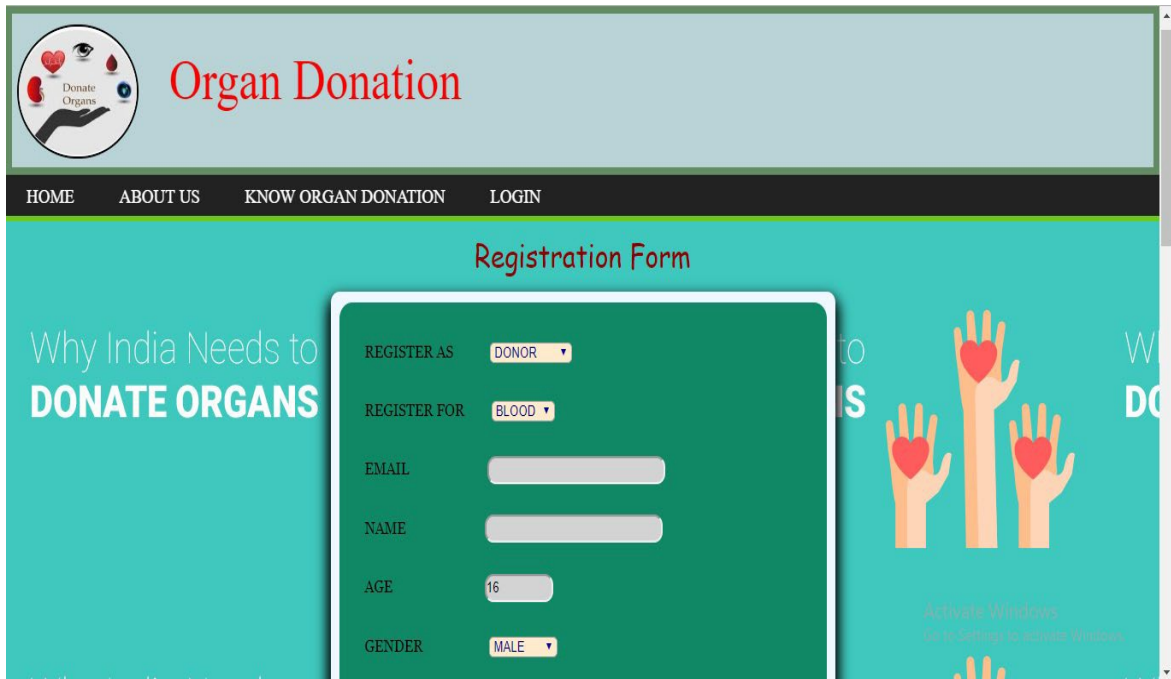
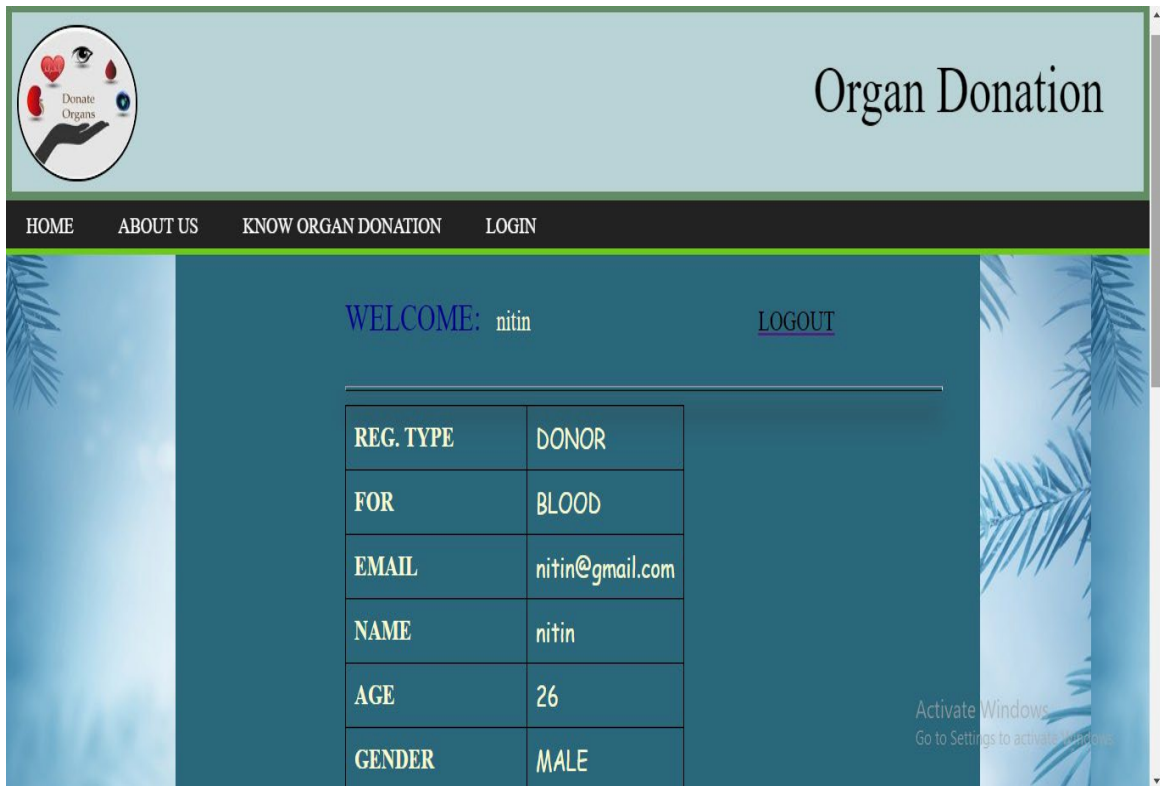


Figure 7.1 Donor create an account



The screenshot shows a web browser window with the URL `http://localhost:8080/Organ/Profile.jsp`. The page title is "Organ Donation" and features a logo with a hand holding a heart. The navigation menu includes "HOME", "ABOUT US", "KNOW ORGAN DONATION", and "LOGIN". The main content area displays a welcome message for "nikhil" and a "LOGOUT" link. Below this is a table with the following data:

REG. TYPE	DONOR
FOR	BLOOD
EMAIL	nikhil@gmail.com
NAME	nikhil
AGE	25
GENDER	MALE
BLOOD GRP.	O+
B.P(SYSTOLIC)	Below 60
B.P(DIASTOLIC)	Below 90

The screenshot shows the same web browser window, but the table now displays more detailed information:

GENDER	MALE
BLOOD GRP.	O+
B.P(SYSTOLIC)	Below 60
B.P(DIASTOLIC)	Below 90
HIV	NEGATIVE
HEPATITIS	NEGATIVE
SUGAR LEVEL	Below 70
HEAMOPHILIA	NO
IMMUNE SYSTEM	Non-Infectious
ADDRESS	fgjhffj
PINCODE	201301
MOBILE	9891138618
COMMENT	verified

**Figure 7.2 Donor details**

## Recipient create an account and request for blood

Registration Form

Why India Needs to  
**DONATE ORGANS**

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**DONATE ORGANS**

Why India Needs to  
**DONATE ORGANS**

REGISTER AS: RECIPIENT

REGISTER FOR: BLOOD

EMAIL: sumanDevi@gmail.com

NAME: Suman Devi

AGE: 35

GENDER: FEMALE

BLOOD GROUP: O+

B.P.(systolic): Below 90

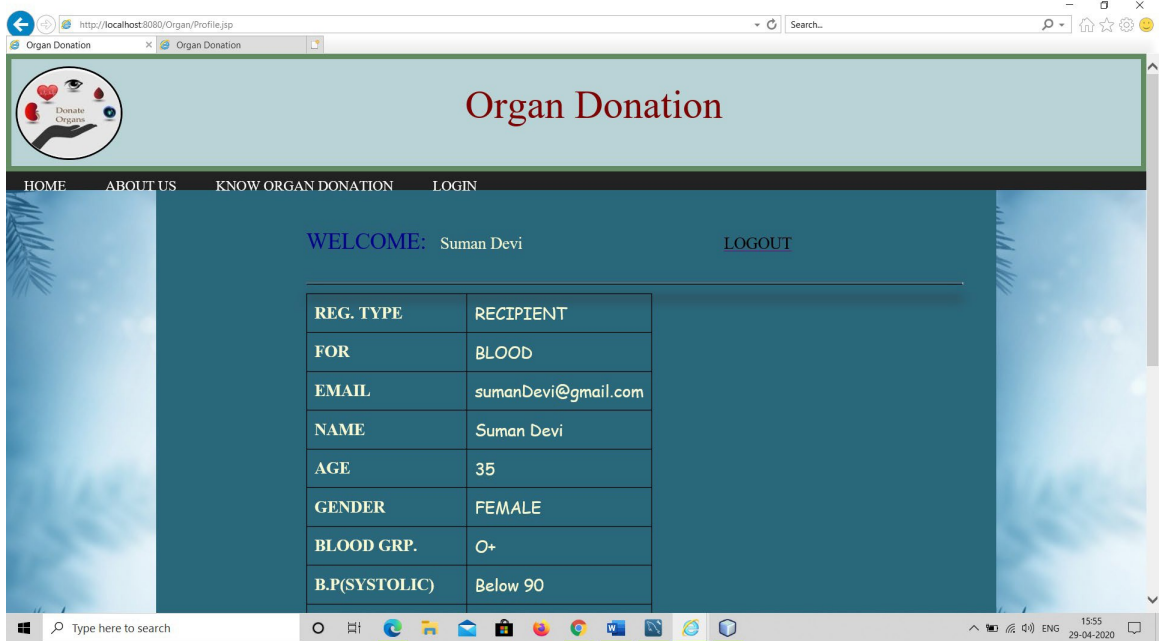
B.P.(diastolic): Below 60

HIV: NEGATIVE

HEPATITIS: NEGATIVE

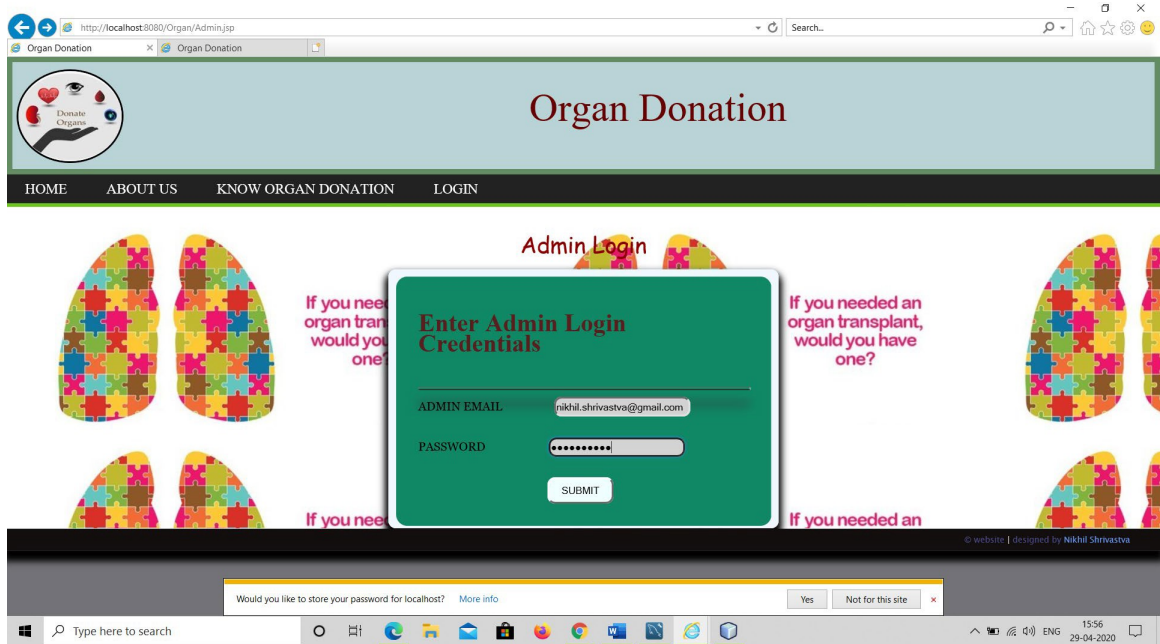
15:54  
29-04-2020

Figure 7.3 Recipient create an account



**Figure 7.4 Recipient details**

**Admin login and proceed recipient request**



**Figure 7.5 Admin Login**

Organ Donation

HOME ABOUT US KNOW ORGAN DONATION LOGIN

WELCOME: Nikhil [LOGOUT](#)

REG. TYPE	FOR	EMAIL	NAME	AGE	GENDER	BLOOD GRP.	B.P(SYSTOLIC)	B.P(DIASTOLIC)	HIV	HEPATITIS	SUGAR
DONOR	BLOOD	nikhil@gmail.com	nikhil	25	MALE	O+	Below 90	Below 60	NEGATIVE	NEGATIVE	Below 7
RECIPIENT	BLOOD	sumanDevi@gmail.com	Suman Devi	35	FEMALE	O+	Below 90	Below 60	NEGATIVE	NEGATIVE	Below 7
RECIPIENT	BLOOD	sumanDevi@gmail.com	Suman Devi	35	FEMALE	O+	Below 90	Below 60	NEGATIVE	NEGATIVE	Below 7

**Figure 7.6 Donor and Recipient details**



## Output Screens

### Home page

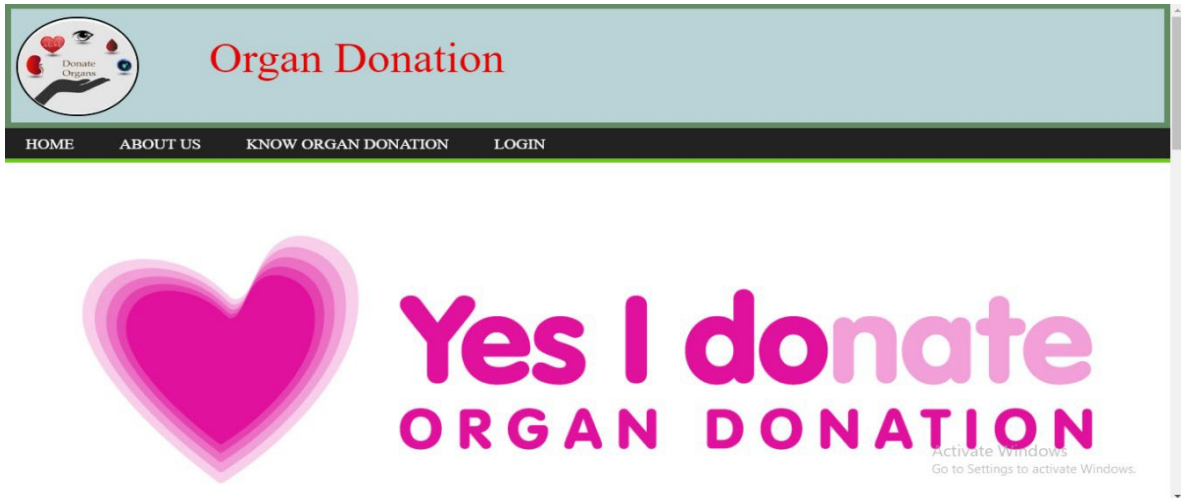


Figure 8.1 Home page

### Login page



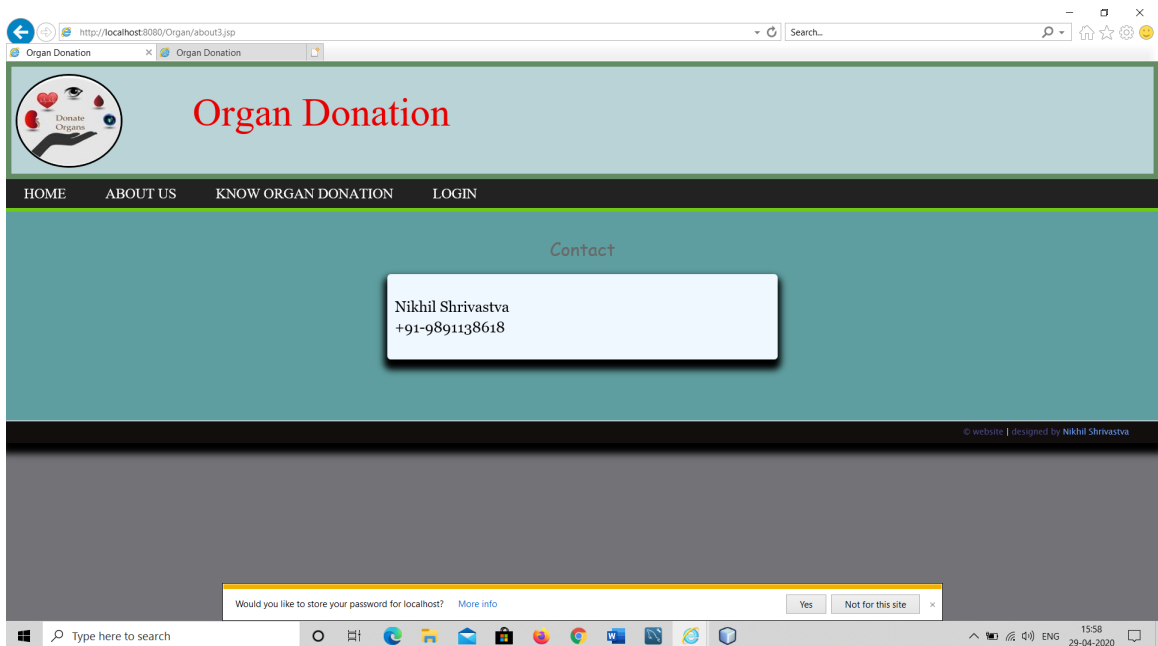
Figure 8.2 Login Form

## AboutUs



Figure 8.3 About Us

## Contact Us



## CONCLUSION

It has been a great pleasure for me to work on this exciting and challenging project. This project proved good for me as it provided practical knowledge of not only programming in JSP and My SQL database web-based application and no some extent Windows Application and SQL Server, but also about all handling procedure related with “**Organ Donation System**”. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and guidance in future in developing projects independently.

## BENEFITS

The project is identified by the merits of the system offered to the user. The merits of this project are as follows

- It's a web-enabled project.
- This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
- The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stages of any new creation, data entry or updation so that the user cannot enter the invalid data, which can create problems at later date.
- Sometimes the user finds in the later stages of using project that he needs to update some of the information that he entered earlier. There are options for him by which he can

update the records. Moreover there is restriction for his that he cannot change the primary data field. This keeps the validity of the data to longer extent.

- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can say that the project is user friendly which is one of the primary concerns of any good project.
- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of information since data collection from information available on computer takes much less time than manual system.
- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency,

## **LIMITATIONS**

- The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.
- Training for simple computer operations is necessary for the users working on the system.

## References

- For Java Installation and Support

[www.java.com](http://www.java.com)

[www.oracle.com](http://www.oracle.com)

- For Java Tutorials

[www.tutorialspoint.com](http://www.tutorialspoint.com)

[www.javatpoint.com](http://www.javatpoint.com)

- For Application Development

[www.netbeans.org](http://www.netbeans.org)

- For SQL

[www.mysql.com/products/workbench](http://www.mysql.com/products/workbench)

- For HTML and CSS

[www.w3c.com](http://www.w3c.com)

[www.w3schools.com](http://www.w3schools.com)

[www.lynda.com](http://www.lynda.com)

- For Bootstrap

[www.getbootstrap.com](http://www.getbootstrap.com)