PROJECT REPORT ON

Blood Bank and Donation Management system

(2022-2023)

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Submitted To:

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Declaration

We hereby declare that the work which is being presented in the Full Stack Project "The Blood bank and donation management Website", in partial fullfillment of the requirements for Full Stack Project viva voce, is an authentic record of our own work carried under the supervision of Mrs. Ruchi Talwar, Assistant Professor, GLA University, Mathura.

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Certificate

This is to certify that the project entitled “The Blood bank and donation management system” carried out in Full Stack Project is the work done by Tanmay Varshney and Mayank Varshney and is submitted in partial full fillment of the requirements for the award of degree Bachelor of Technology (Computer Science and Engineering).

Signature of Mentor:
Name of Mentor: Mrs. Ruchi Talwar
Date:05/05/23

Acknowledgement

It is our pleasure to acknowledge the assistance of a number of people without whose help this project would not have been possible.

First and foremost, We I would like to express our gratitude to Mrs. Ruchi talwar our project mentor, for providing invaluable Encouragement, guidance and assistance. We would like to thank my co-team members for their complete support throughout in finishing the mentioned project accurately. After doing this project We can confidently say that this experience has not only enriched us with technical knowledge but also has unparsed the maturity of thought and vision, the attributes required for being a professional.

Abstract

The Blood Bank and Donation Management System is a website that stores, processes, retrieves, and analyses data about blood bank administration. It also supervises blood inventory management and other blood bank-related activities. The major goal of the blood bank management system is to keep track of blood, donors, blood groups, blood banks, and stock information. It keeps track of all information concerning blood, blood cells, stocks, and blood. Because the project is all done at the administrative level, only the administrator can see it. A person who likes to donate blood gives his entire details i.e., fill in the registration form and can create a username with a password by which he can modify his details if at all there are any changes in his information given before. Blood is a crucial healthcare resource linked to saving patients'lives with accidents, surgeries, bleeding disorders,pregnancy related complications,inherited/ac quired haematological diseases, and malignancies. Globally, about 118.5 million blood units are collected annually, yet the demand exceeds the existing capacity.

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Chapter-1

Introduction

1.1. Overview

The Blood Bank Management System (BBMS) is an application that stores, processes, retrieves, and analyzes data about blood bank administration. It also supervises blood inventory management and other blood bank-related activities.

1.2. Motivation

A blood donation is a process whereby a person voluntarily has blood drawn to be used for future transfusions when in need at hospitals for treatment procedures that require them. Donation may be of whole blood (blood drawn directly from the body) or of specific components of the blood; such as red blood cells, white blood cells, plasma, and platelets. Blood banks often participate in the process of collecting blood and other procedures such as managing stocks, approving blood requests and updating donation information.

1.3. Project Plan

1.3.1. Objective

The major goal of the blood bank management system is to keep track of blood, donors, blood groups, blood banks, and stock information. It keeps track of all information concerning blood, blood cells, stocks, and blood. Because the project is all done at the administrative level, only the administrator can see it.

1.3.2. Scope

The inspiration of this project is to improve blood banks and to develop a blood bank information system which focuses on making an online system that is accessible for both donors and administrators. Donors can directly receive information regarding their previous blood donations, including their blood results and donation history, in order to easily schedule their next donations. They can also update the personal information through the system, without having to contact the blood bank registry.

1.4. Drawbacks in Existing System.

- No Offline Updates.
- Not on HTTPS encryptions.

Chapter-2

Software Requirement Analysis

2.1. Hardware Requirements

- Processor: Intel Pentium III or later
- Main Memory (RAM):256 MB
- Cache Memory:512 KB
- Monitor:14-inch Colour Monitor
- Keyboard:108 Keys
- Mouse: Optical Mouse
- Hard Disk:160 GB

2.2. Software Requirements

- System Software

- Operating System: Windows 10, Linux

- Application Software - Tools: GitHub, VS Code - Front-end:
  - HTML
  - CSS
  - JavaScript - Back-end:
    - PHP Maria DB

2.3. Installation of VS Code

VS Code is a free code editor, which runs on the macOS, Linux, and Windows operating systems.
VS Code is lightweight and should run on most available hardware and platform versions. You can review the System Requirements to check if your computer configuration is supported.

Fig1. Finish up Installing.

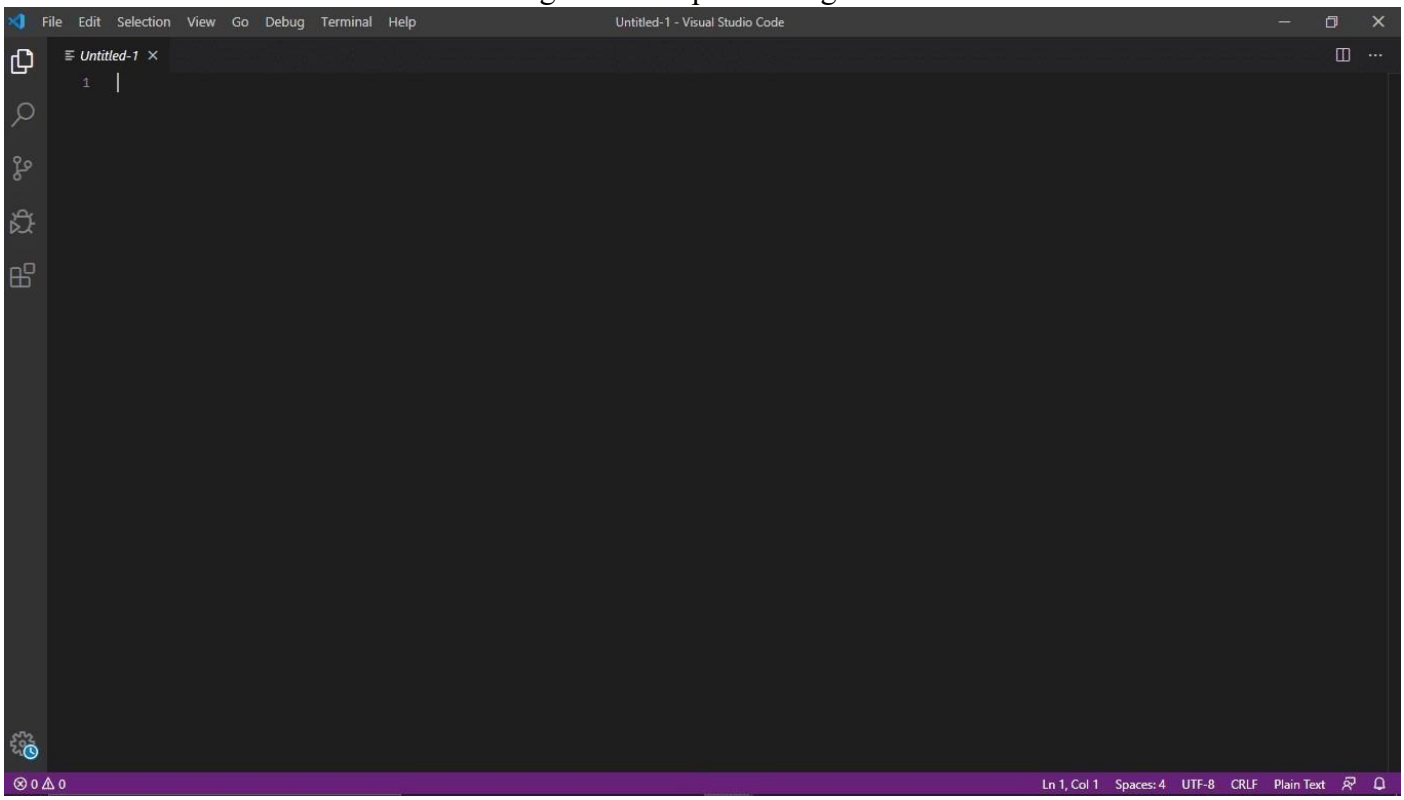


Fig2. VSCode Window

2.4. Specific Requirements

2.4.1 Languages Used

HTML:

HTML stands for Hyper Text Mark-up Language, which is the most widely used language on Web to develop web pages. HTML was created by Berners-Lee in late 1991 but "HTML 2.0" was the first standard HTML specification which was published in 1995. HTML 4.01 was a major version of HTML and it was published in late 1999. Though HTML 4.01 version is widely used but currently we are having HTML-5 version which is an extension to HTML 4.01, and this version was published in 2012.

I will list down some of the key advantages of learning HTML:

- Create Web site - You can create a website or customize an existing web template if you know HTML well.
- Become a web designer - If you want to start a career as a professional web designer, HTML and CSS designing is a must skill.
- Understand web - If you want to optimize your website, to boost its speed and performance, it is good to know HTML to yield best results.
- Learn other languages - Once you understand the basic of HTML then other related technologies like java script, php, or angular are become easier to understand.

CSS:

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

CSS handles the look and feel part of a web page. Using CSS, you can control the colour of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colours are used, layout designs, variations in display for different devices and screen sizes as well as a variety of other effects.

CSS is easy to learn and understand but it provides powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the mark-up languages HTML or XHTML.

- CSS saves time − You can write CSS once and then reuse same sheet in multiple HTML pages. You can define a style for each HTML element and apply it to as many Web pages as you want.

- Pages load faster − If you are using CSS, you do not need to write HTML tag attributes every time. Just write one CSS rule of a tag and apply it to all the occurrences of that tag. So less code means faster download times.
- Easy maintenance − To make a global change, simply change the style, and all elements in all the web pages will be updated automatically.
- Superior styles to HTML − CSS has a much wider array of attributes than HTML, so you can give a far better look to your HTML page in comparison to HTML attributes.
- Multiple Device Compatibility − Style sheets allow content to be optimized for more than one type of device. By using the same HTML document, different versions of a website can be presented for handheld devices such as PDAs and cell phones or for printing.

JavaScript:

JavaScript is a lightweight, interpreted programming language. It is designed for creating network-centric applications. It is complimentary to and integrated with Java. JavaScript is very easy to implement because it is integrated with HTML. It is open and cross-platform.

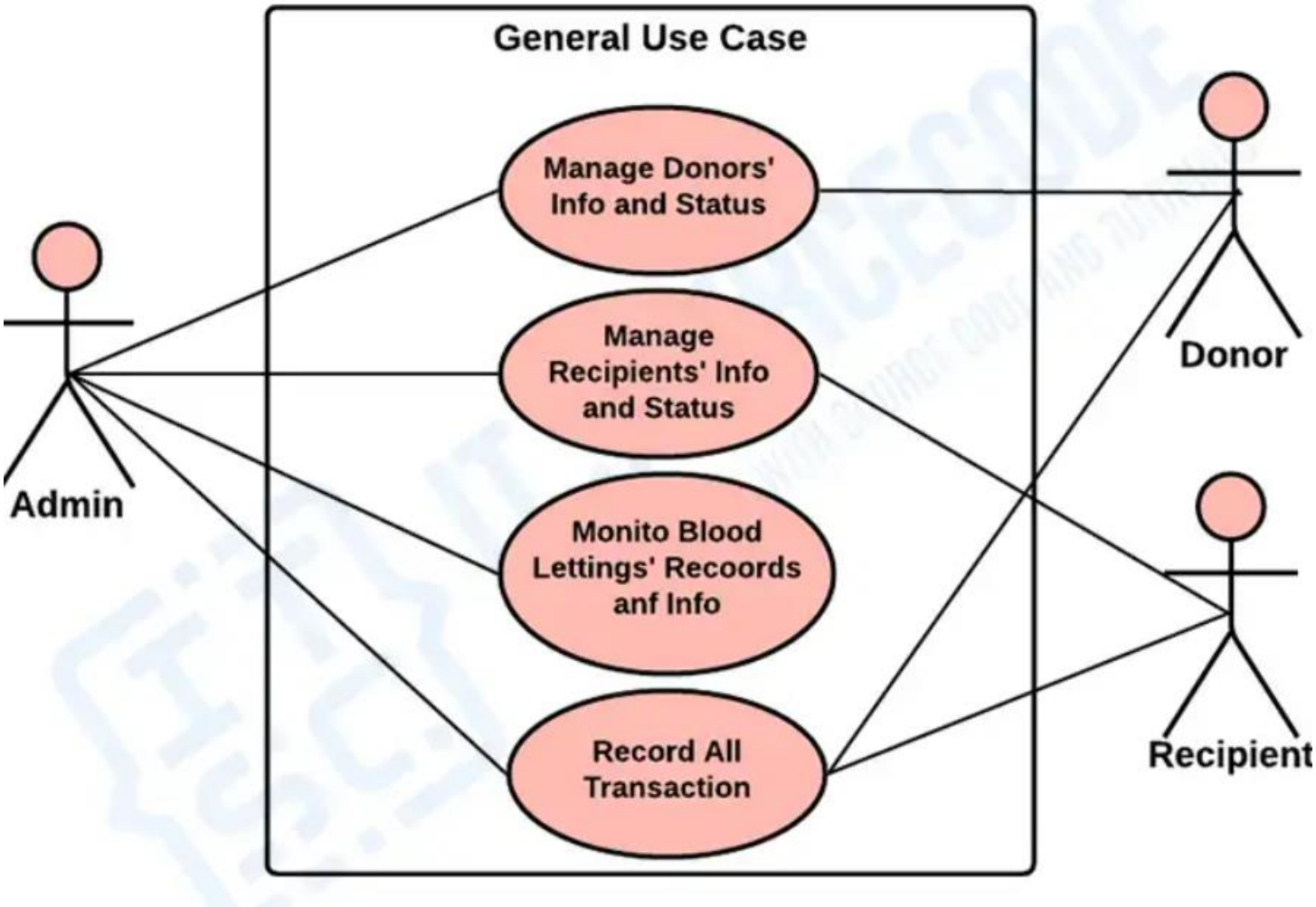
Fig3. HTML vs CSS vs JAVASCRIPT

Chapter-3
Software Designs

3.1 Use Case diagram

A use case diagram is a dynamic or behaviour diagram in UML. Use case diagrams model the functionality of a system using actors and use cases. Use cases are a set of actions, services, and functions that the system needs to perform.

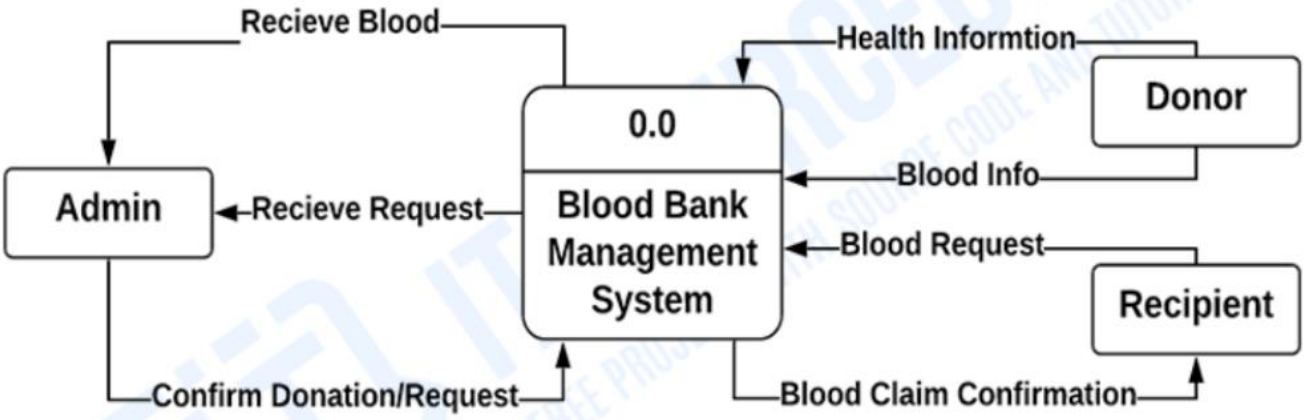
Fig 3.1 Use Case diagram



3.2 Data Flow Diagram

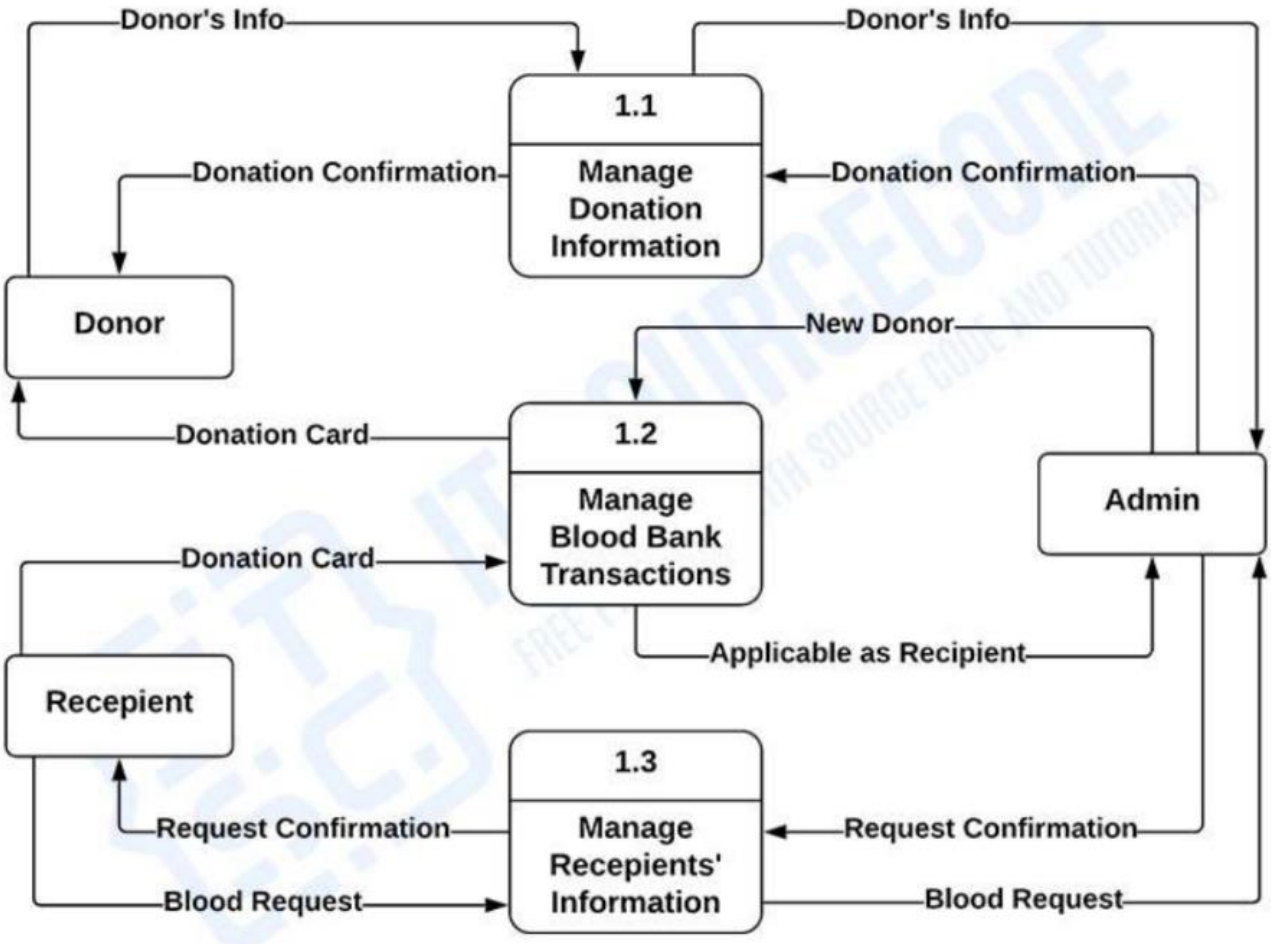
Level 0:

Fig. 3.2Level-0 DFD



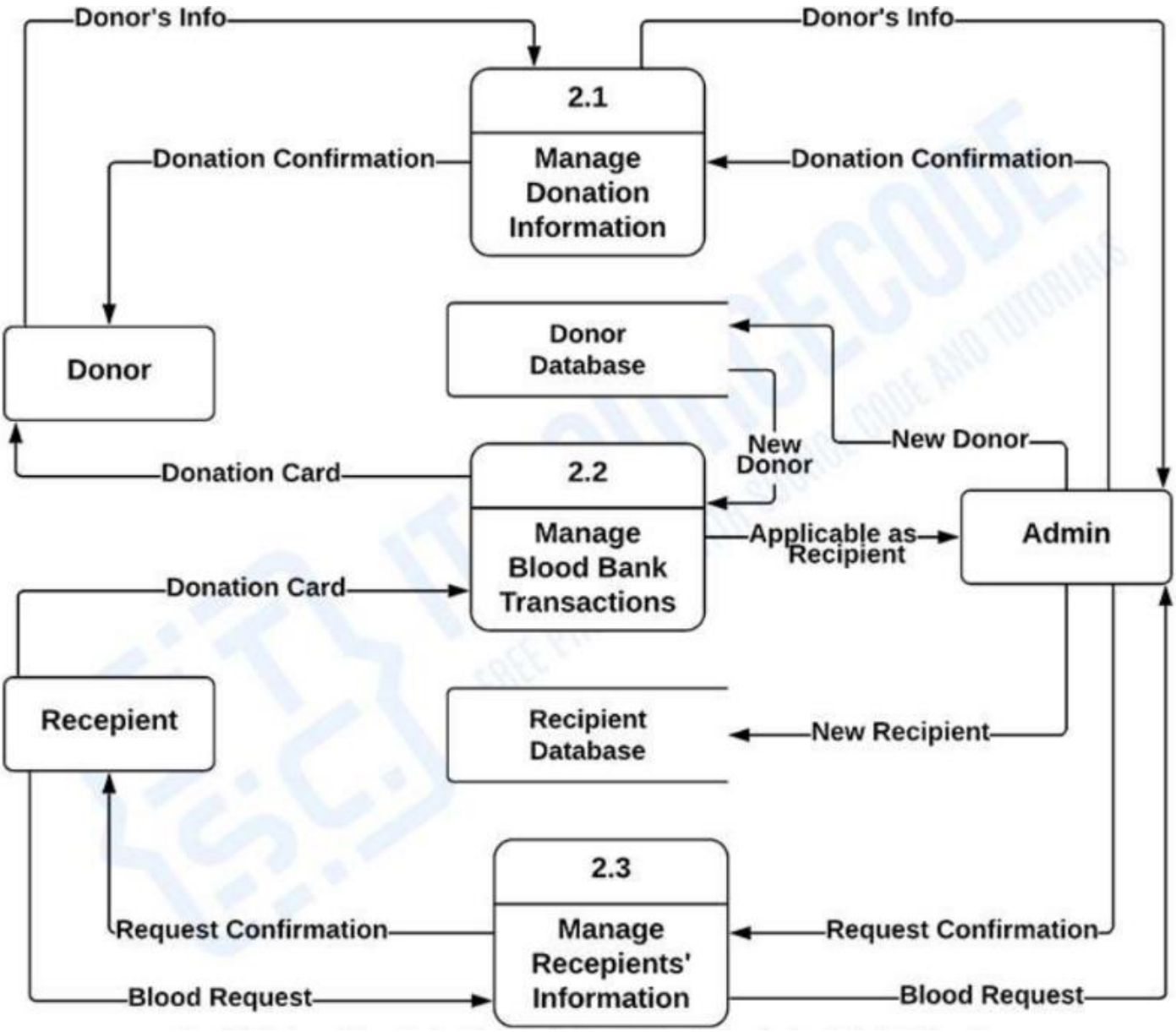
Level 1:

Fig. 3.3 Level-1 DFD



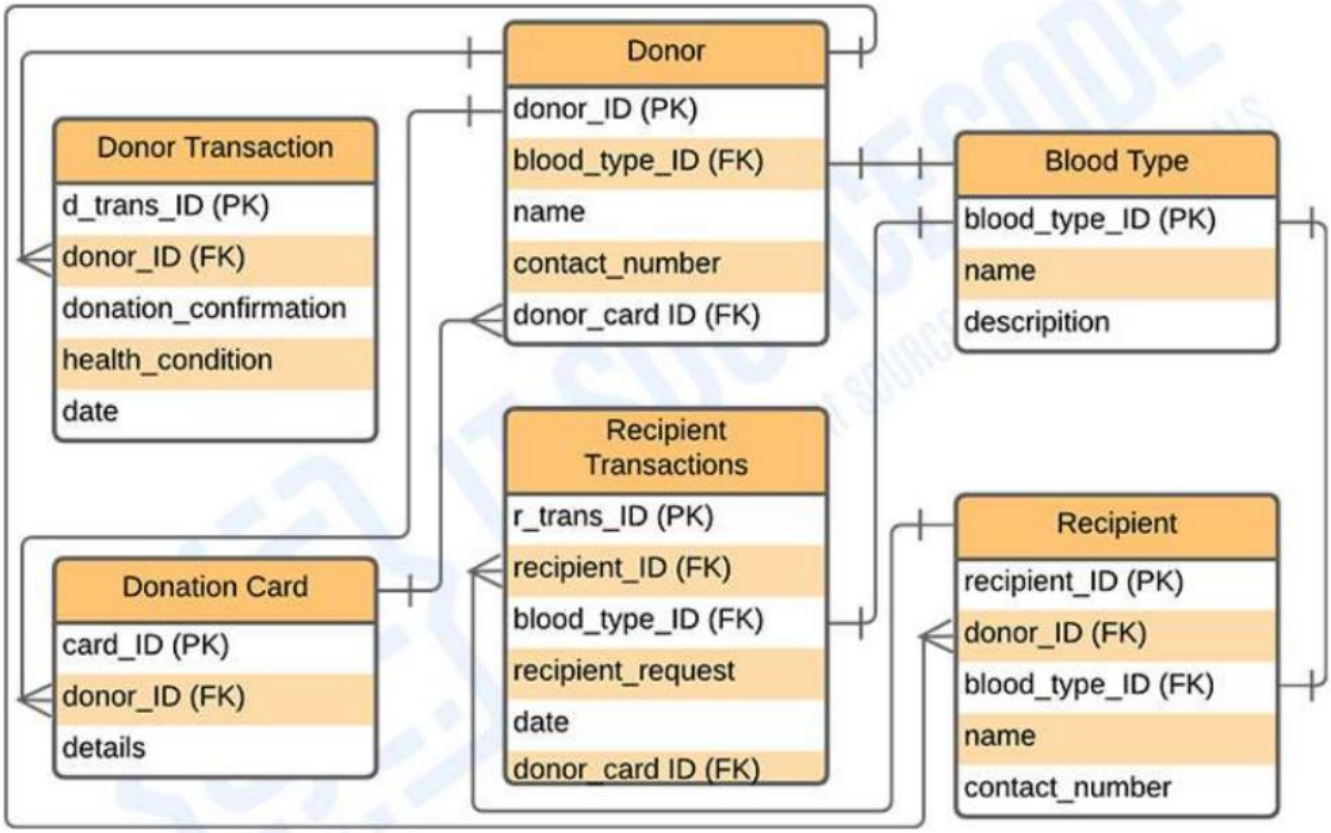
Level 2:

Fig. 3.3 Level-2 DFD



3.3 Activity Diagram

Fig. 3.3 Sequential Diagram



Chapter-4

Testing

4.1 Introduction

The implementation phase of software development is concerned with translating design specification into source code. The preliminary goal of implementation is to write source code and internal documentation so that conformance of the code to its specifications can be easily verified, and so that debugging, testing and modifications are eased. This goal can be achieved by making the source code as clear and straightforward as possible. Simplicity, clarity and elegance are the hallmark of good programs, obscurity, cleverness, and complexity are indications of inadequate design and misdirected thinking.

Source code clarity is enhanced by structured coding techniques, by good coding style, by, appropriate supporting documents, by good internal comments, and by feature provided in modern programming languages.

The implementation team should be provided with a well-defined set of software requirement, an architectural design specification, and a detailed design description. Each team member must understand the objectives of implementation.

Fig5. Testing

4.2. Error

The term error is used in two ways. It refers to the difference between the actual output of software and the correct output, in this interpretation, error is essential a measure of the difference between actual and ideal. Error is also to used to refer to human action that result in software containing a defect or fault.

4.3. Fault

Fault is a condition that causes to fail in performing its required function. A fault is a basic reason for software malfunction and is synonymous with the commonly used term Bug.

4.4. Failure

Failure is the inability of a system or component to perform a required function according to its specifications. A software failure occurs if the behaviour of the software is the different from the specified behaviour. Failure may be caused due to functional or performance reasons. a. Unit Testing

The term unit testing comprises the sets of tests performed by an individual programmer prior to integration of the unit into a larger system.

A program unit is usually small enough that the programmer who developed it can test it in great detail, and certainly in greater detail than will be possible when the unit is integrated into an evolving software product. In the unit testing the programs are tested separately, independent of each other. Since the check is done at the program level, it is also called program teasing. b. Module Testing

A module and encapsulates related component. So can be tested without other system module.

c. Subsystem Testing

Subsystem testing may be independently design and implemented common problems are sub-system interface mistake in this checking we concenton it. There are four categories of tests that a programmer will typically perform on a program unit.

i Functional test ii
Performance test iii
Stress test iv
Structure test

4.5 Functional Test

Functional test cases involve exercising the code with Nominal input values for which expected results are known; as well as boundary values (minimum values, maximum values and values on and just outside the functional boundaries) and special values.

4.6 Performance Test

Performance testing determines the amount of execution time spent in various parts of the unit, program throughput, response time, and device utilization by the program unit. A certain amount of avoid expending too much effort on finetuning of a program unit that contributes little to the overall performance of the entire system. Performance testing is most productive at the subsystem and system levels.

4.7 Stress Test

Stress test are those designed to intentionally break the unit. A great deal can be learned about the strengths and limitations of a program by examining the manner in which a program unit breaks.

4.8 Structure Test

Structure tests are concerned with exercising the internal logic of a program and traversing particular execution paths. Some authors refer collectively to functional performance and stress testing as “black box” testing. While structure testing is referred to as “white box” or “glass box” testing. The major activities in structural testing are deciding which path to exercise, deriving test date to exercise those paths, determining the test coverage criterion to be used, executing the test, and measuring the test coverage achieved when the test cases are exercised.

Chapter-5.1

Source Code:

```
<?php include 'session.php'; ?>
<html>

<head>

  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper.min.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>

<style>

#sidebar{position:relative;margin-top:-20px}
#content{position:relative;margin-left:210px}
@media screen and (max-width: 600px) {
  #content {
    position:relative;margin-left:auto;margin-right:auto;
  }
}
</style>
</head>

<body style="color:black">
  <?php
  include 'conn.php';
    if (isset($_SESSION['loggedin']) && $_SESSION['loggedin'] == true) {
    ?>
<div id="header">
<?php $active="add"; include 'header.php';
?>
</div>
<div id="sidebar">
<?php include 'sidebar.php'; ?>

</div>
<div id="content">
  <div class="content-wrapper">
    <div class="container-fluid">
      <div class="row">
        <div class="col-md-12 lg-12 sm-12">

          <h1 class="page-title">Add Donor</h1>
        </div>
      </div>
      <hr>
      <form name="donor" action="save_donor_data.php" method="post">
```

```
      <div class="row">
      <div class="col-lg-4 mb-4"><br>
      <div class="font-italic">Full Name<span style="color:red">*</span></div>
      <div><input type="text" name="fullname" class="form-control" required></div>
      </div>
      <div class="col-lg-4 mb-4"><br>
      <div class="font-italic">Mobile Number<span style="color:red">*</span></div>
      <div><input type="text" name="mobileno" class="form-control" required></div>
      </div>
      <div class="col-lg-4 mb-4"><br>
      <div class="font-italic">Email Id</div>
      <div><input type="email" name="emailid" class="form-control"></div>
      </div>
      </div>

      <div class="row">
      <div class="col-lg-4 mb-4"><br>
      <div class="font-italic">Age<span style="color:red">*</span></div>
      <div><input type="text" name="age" class="form-control" required></div>
      </div>


      <div class="col-lg-4 mb-4"><br>
      <div class="font-italic">Gender<span style="color:red">*</span></div>
      <div><select name="gender" class="form-control" required>
      <option value="">Select</option>
      <option value="Male">Male</option>
      <option value="Female">Female</option>
      </select>
      </div>
    </div>
      <div class="col-lg-4 mb-4"><br>
      <div class="font-italic">Blood Group<span style="color:red">*</span></div>
      <div><select name="blood" class="form-control" required>
      <option value=""selected disabled>Select</option>
      <?php
        include 'conn.php';
        $sql= "select * from blood";
        $result=mysqli_query($conn,$sql) or die("query unsuccessful.");
      while($row=mysqli_fetch_assoc($result)){
       ?>
       <option value=" <?php echo $row['blood_id'] ?>"> <?php echo $row['blood_group'] ?>
</option>
     <?php } ?>
      </select>
      </div>
      </div>

      </div>
      <br>
```

```
      <div class="row">
      <div class="col-lg-4 mb-4">
      <div class="font-italic">Address<span style="color:red">*</span></div>
      <div><textarea class="form-control" name="address" required></textarea></div></div>
    </div> <br>
      <div class="row">
        <div class="col-lg-4 mb-4">
        <div><input type="submit" name="submit" class="btn btn-primary" value="Submit"
style="cursor:pointer" onclick="popup()"></div>
        </div>
      </div>
    </form>

      </div>
      </div>
      </div>
      <?php
    } else {
        echo '<div class="alert alert-danger"><b> Please Login First To Access Admin
Portal.</b></div>';
        ?>
        <form method="post" name="" action="login.php" class="form-horizontal">
          <div class="form-group">
            <div class="col-sm-8 col-sm-offset-4" style="float:left">

              <button class="btn btn-primary" name="submit" type="submit">Go to Login
Page</button>
            </div>
          </div>
        </form>
    <?php }
     ?>
     <script>
     function popup() {
       alert("Data added Successfully.");
     }
     </script>
</body>
</html>
```

Database Schema:

```
create database blood_donation; /* creating database*/
use blood_donation;

/*create table donor_details in which all donor information gets stored.*/
create table donor_details(
donor_id int auto_increment NOT NULL,
donor_name varchar(50) NOT NULL,
donor_number varchar(10) NOT NULL,
donor_mail varchar(50),
donor_age int(60) NOT NULL,
donor_gender varchar(10) NOT NULL,
donor_blood varchar(10) NOT NULL,
donor_address varchar(100) NOT NULL,
Primary key(donor_id)
);
/*create table admin_info in which all admin information gets stored.*/
create table admin_info(
admin_id int(10) NOT NULL UNIQUE AUTO_INCREMENT,
admin_name varchar(50) NOT NULL,
admin_username varchar(50) NOT NULL UNIQUE,
admin_password varchar(50) NOT NULL,
Primary key(admin_id)
);

/*  insert admin data into admin_info table*/
insert into admin_info(admin_name,admin_username,admin_password)
values("Varun","varunsardana004",123);

/*create table blood in which all blood group is stored.*/
create table blood(
blood_id int auto_increment Not Null,
blood_group varchar(10) NOT NULL,
primary key(blood_id)
);

/* insert all blood groups*/
insert into blood(blood_group)
values("B+"),("B-"),("A+"),("O+"),("O-"),("A-"),("AB+"),("AB-");


/*create table pages in which all pages information gets stored.*/
create table pages(
page_id int NOT NULL auto_increment UNIQUE,
page_name varchar(255) NOT NULL,
page_type varchar(255) NOT NULL,
page_data longtext NOT NULL
);
ALTER TABLE pages
```

```
MODIFY COLUMN page_type varchar(50) UNIQUE;

/*create table contact_info in which your site contact information is stored.*/
create table contact_info(
contact_id int auto_increment Not Null,
contact_address varchar(100) NOT NULL,
contact_mail varchar(50) NOT NULL,
contact_phone varchar(100) NOT NULL,
primary key(contact_id)
);

insert into contact_info(contact_address,contact_mail,contact_phone)
values("Hisar,Haryana(125001)","bloodbank@gmail.com","7056550477");



INSERT INTO pages (page_id, page_name, page_type, page_data) VALUES
(2, 'Why Become Donor', 'donor', '<span style="color: rgb(0, 0, 0); font-family: &quot;Open
Sans&quot;, Arial, sans-serif; font-size: 14px; text-align: justify;">Blood is the most
precious gift that anyone can give to another person — the gift of life. A decision to donate
your blood can save a life, or even several if your blood is separated into its components —
red cells, platelets and plasma — which can be used individually for patients with specific
conditions. Safe blood saves lives and improves health. Blood transfusion is needed for:
1)women with complications of pregnancy, such as ectopic pregnancies and haemorrhage before,
during or after childbirth.
2)children with severe anaemia often resulting from malaria or malnutrition.
3)people with severe trauma following man-made and natural disasters.
4)many complex medical and surgical procedures and cancer patients.
It is also needed for regular transfusions for people with conditions such as thalassaemia
and sickle cell disease and is used to make products such as clotting factors for people with
haemophilia. There is a constant need for regular blood supply because blood can be stored
for only a limited time before use. Regular blood donations by a sufficient number of healthy
people are needed to ensure that safe blood will be available whenever and wherever it is
needed.</span>'),
(3, 'About Us ', 'aboutus', '<span style="color: rgb(0, 0, 0); font-family: &quot;Open
Sans&quot;, Arial, sans-serif; text-align: justify;">Blood bank is a place where blood bag
that is collected from blood donation events is stored in one place. The term “blood bank”
refers to a division of a hospital laboratory where the storage of blood product occurs and
where proper testing is performed to reduce the risk of transfusion related events . The
process of managing the blood bag that is received from the blood donation events needs a
proper and systematic management. The blood bag must be handled with care and treated
thoroughly as it is related to someone’s life. The development of Web-based Blood Bank And
Donation Management System (BBDMS) is proposed to provide a management functional to the
blood bank in order to handle the blood bag and to make entries of the individuals who want
to donate blood and who are in need.</span>');



INSERT INTO pages (page_id, page_name, page_type, page_data) VALUES
(4, 'The Need For Blood', 'needforblood', '<span style="color: rgb(0, 0, 0); font-family:
&quot;Open Sans&quot;, Arial, sans-serif; text-align: justify;">There are many reasons
```

```
patients need blood. A common misunderstanding about blood usage is that accident victims are
the patients who use the most blood. Actually, people needing the most blood include those:
1) Being treated for cancer<br>
2) Undergoing orthopedic surgeries<br>
3) Undergoing cardiovascular surgeries<br>
4) Being treated for inherited blood disorders</span>');

INSERT INTO pages (page_id, page_name, page_type, page_data) VALUES
(5, 'Blood Tips', 'bloodtips', '<span style="color: rgb(0, 0, 0); font-family: &quot;Open
Sans&quot;, Arial, sans-serif; text-align: justify;">
1) You must be in good health. <br>
2) Hydrate and eat a healthy meal before your donation.<br>
3) You're never too old to donate blood. <br>
4) Rest and relaxed.<br>
5) Don't forget your FREE post-donation snack.
</span>'),
(6, 'Who you could Help', 'whoyouhelp', '<span style="color: rgb(0, 0, 0); font-family:
&quot;Open Sans&quot;, Arial, sans-serif; text-align: justify;">
Every 2 seconds, someone in the World needs blood. Donating blood can help:

1) People who go through disasters or emergency situations.<br>
2) People who lose blood during major surgeries.<br>
3) People who have lost blood because of a gastrointestinal bleed.<br>
4) Women who have serious complications during pregnancy or childbirth.<br>
5) People with cancer or severe anemia sometimes caused by thalassemia or sickle cell
disease.<br>
</span>');
INSERT INTO pages (page_id, page_name, page_type, page_data) VALUES
('7','Blood Groups','bloodgroups','<span style="color: rgb(0, 0, 0); font-family: &quot;Open
Sans&quot;, Arial, sans-serif; text-align: justify;">
  <p>  Blood group of any human being will mainly fall in any one of the following
groups.</p>
                <ul>

                  <li>A positive or A negative</li>
                  <li>B positive or B negative</li>
                  <li>O positive or O negative</li>
                  <li>AB positive or AB negative.</li>
                </ul>
                <p>Your blood group is determined by the genes you inherit from your
parents.<br>
                  A healthy diet helps ensure a successful blood donation, and also makes you
feel better!
                </p>

</span>'),
('8','Universal Donors And Recepients','universal','<span style="color: rgb(0, 0, 0); font-
family: &quot;Open Sans&quot;, Arial, sans-serif; text-align: justify;">
  <p>
The most common blood type is O, followed by type A.
```

```
Type O individuals are often called "universal donors" since their blood can be transfused
into persons with any blood type. Those with type AB blood are called "universal recipients"
because they can receive blood of any type.</p>

            For emergency transfusions, blood group type O negative blood is the variety of
blood that has the lowest risk of causing serious reactions for most people who receive it.
Because of this, it\'s sometimes called the universal blood donor type.

</span>');


update pages
set page_data='<span style="color: rgb(0, 0, 0); font-family: &quot;Open Sans&quot;, Arial,
sans-serif; font-size: 14px; text-align: justify;">Blood is the most precious gift that
anyone can give to another person — the gift of life. A decision to donate your blood can
save a life, or even several if your blood is separated into its components — red cells,
platelets and plasma — which can be used individually for patients with specific conditions.
Safe blood saves lives and improves health. Blood transfusion is needed for:
<ul><li>women with complications of pregnancy, such as ectopic pregnancies and haemorrhage
before, during or after childbirth.
</li><li>children with severe anaemia often resulting from malaria or malnutrition.
</li><li>people with severe trauma following man-made and natural disasters.
</li><li>many complex medical and surgical procedures and cancer patients.</li></ul>
<br>It is also needed for regular transfusions for people with conditions such as
thalassaemia and sickle cell disease and is used to make products such as clotting factors
for people with haemophilia. There is a constant need for regular blood supply because blood
can be stored for only a limited time before use. Regular blood donations by a sufficient
number of healthy people are needed to ensure that safe blood will be available whenever and
wherever it is needed.</span>'
    where page_type="donor";


    /*create table contact_query in which all querier inforamation gets stored.*/
create table contact_query(
query_id int auto_increment Not Null,
query_name varchar(100) NOT NULL,
query_mail varchar(120) NOT NULL,
query_number char(11) NOT NULL,
query_message longtext NOT NULL,
query_date timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP,
query_status int(11) DEFAULT NULL,
Primary key(query_id)
);
alter table contact_query modify column query_date
timestamp DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP;


insert into contact_query (query_name,query_mail,query_number,query_message) values
("Anuj","anuj@gmail.com","9923471025","I need O+ Blood.");

update contact_query set query_status="1" where query_id="1";
```

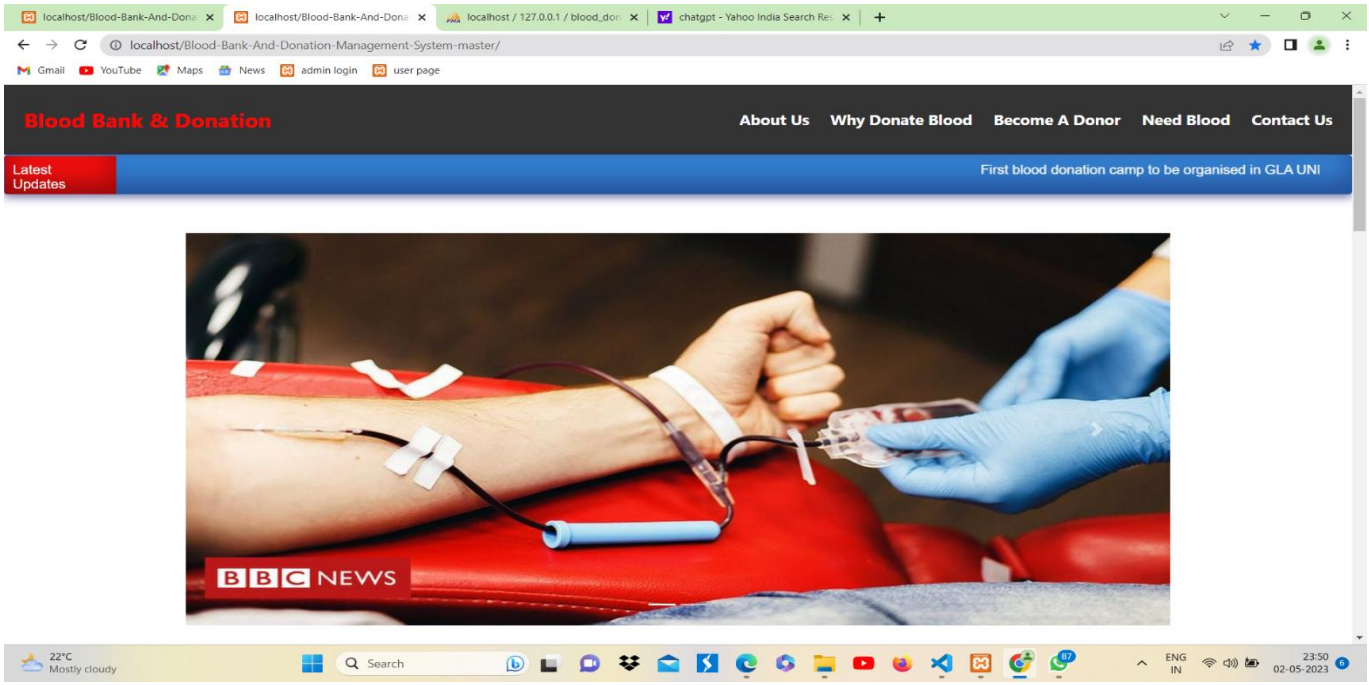
```
/*create table query_stat in which query status is stored.*/
CREATE TABLE query_stat(
  id INT NOT NULL Unique,
 query_type VARCHAR(45) NOT NULL,
  PRIMARY KEY (id)
  );


  insert into query_stat(id,query_type)
  values('1',"Read"),
  ('2',"Pending");
```

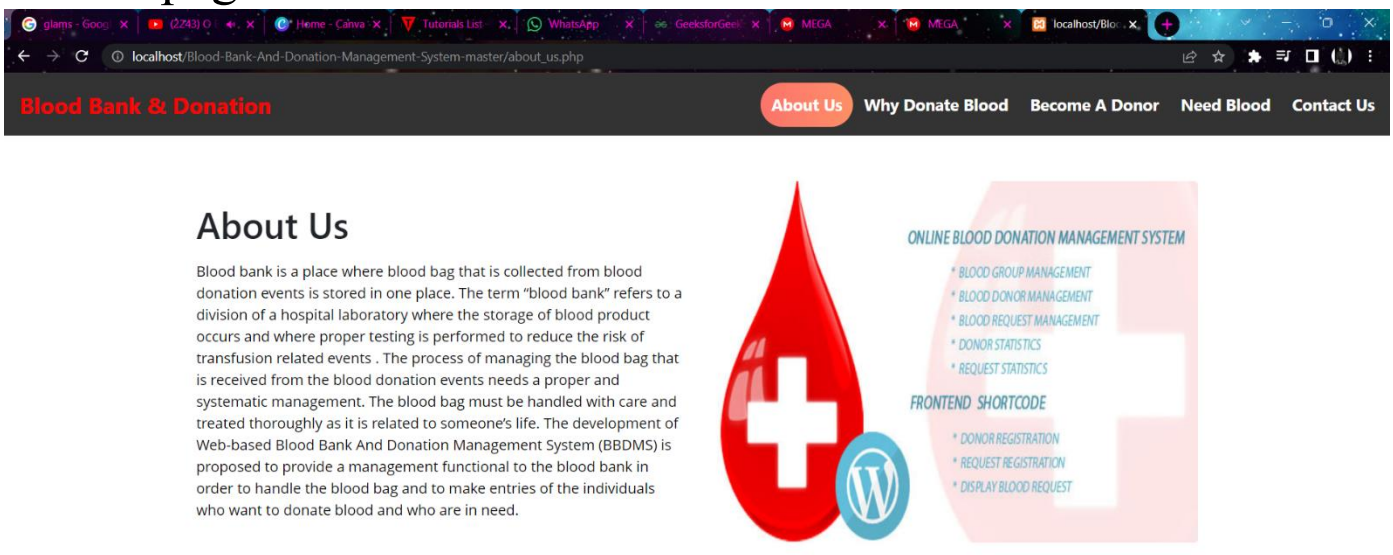
Chapter-5.2

Implementation and User Interface

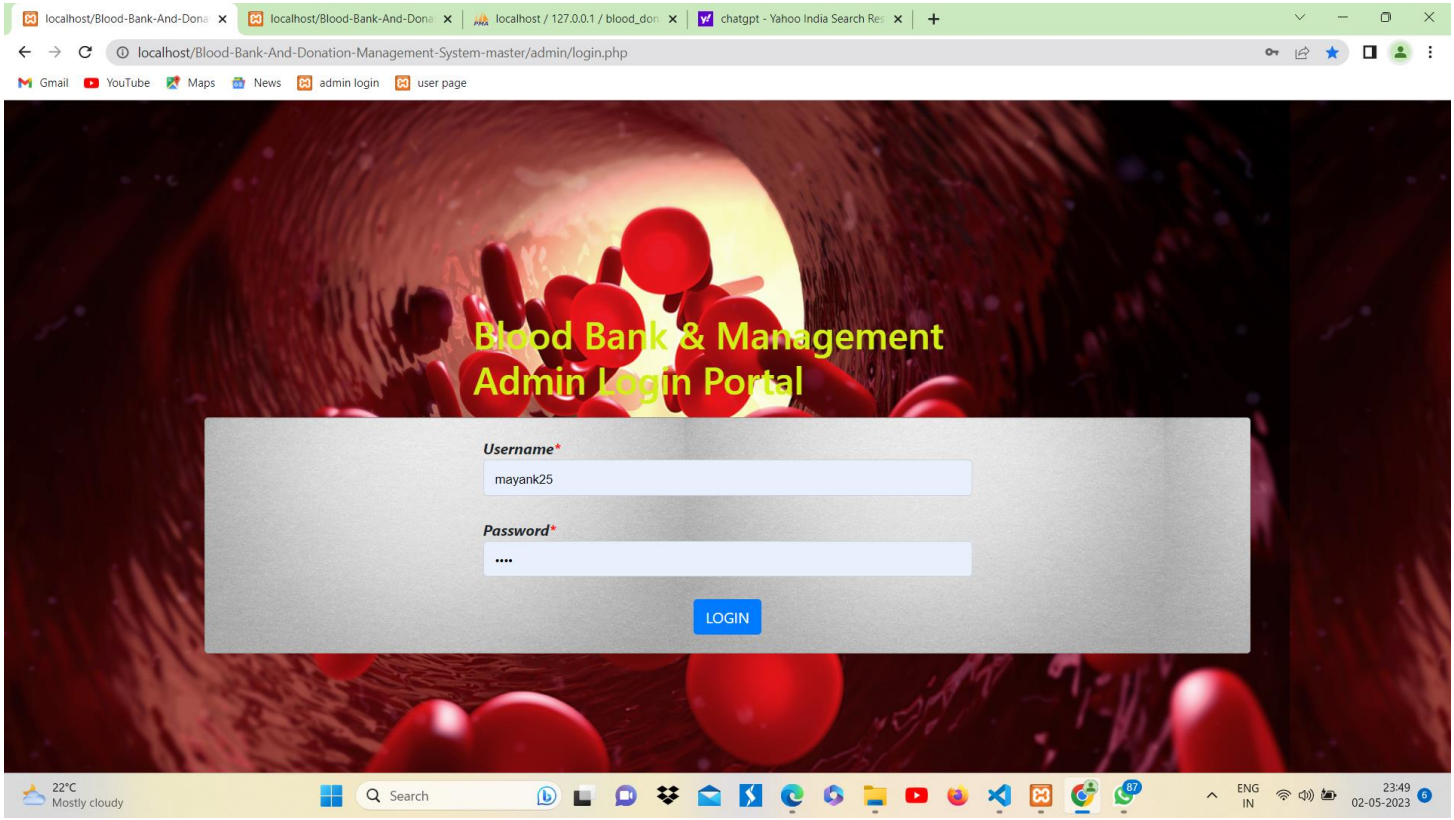
Home Page:



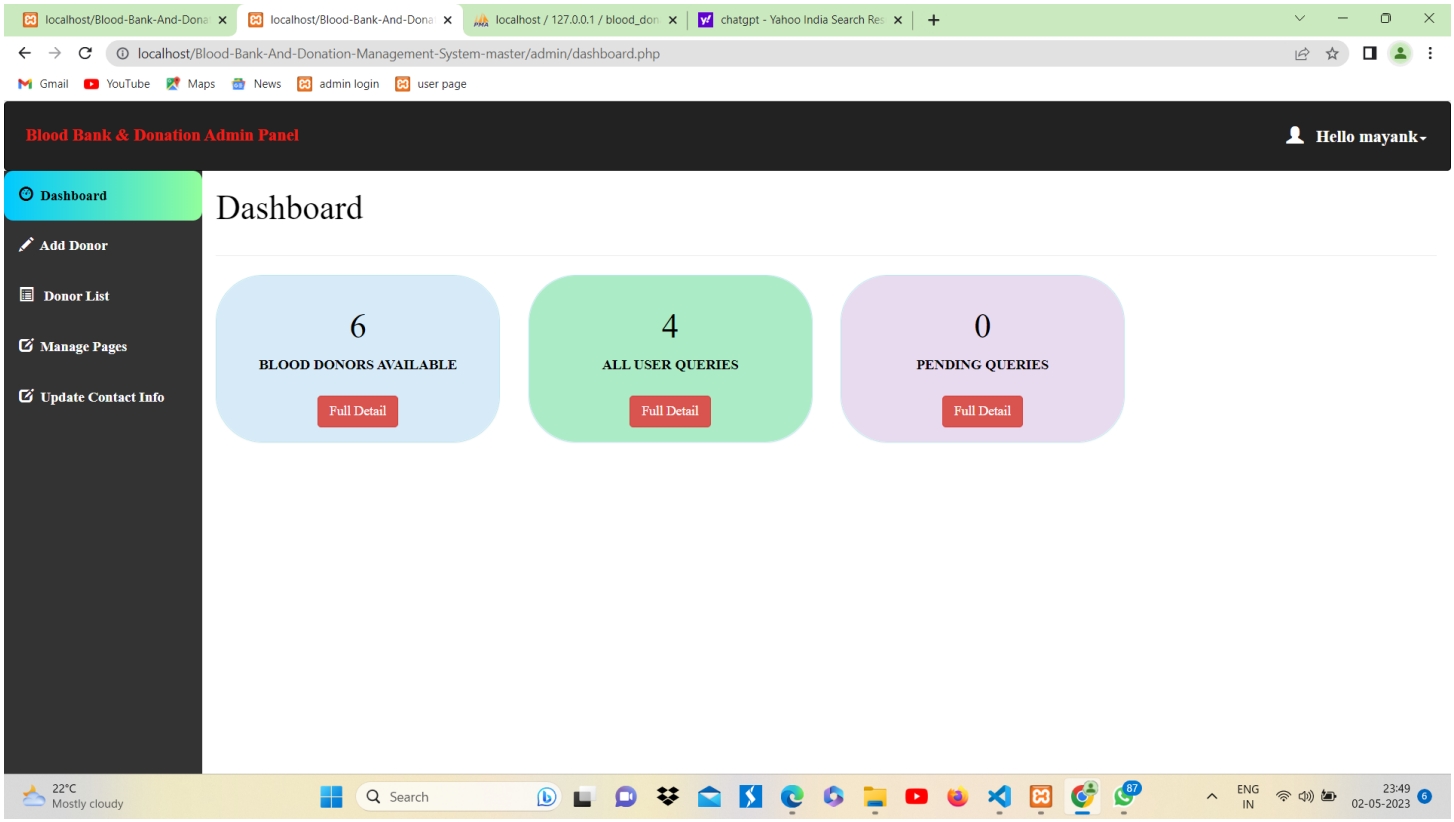
About page:



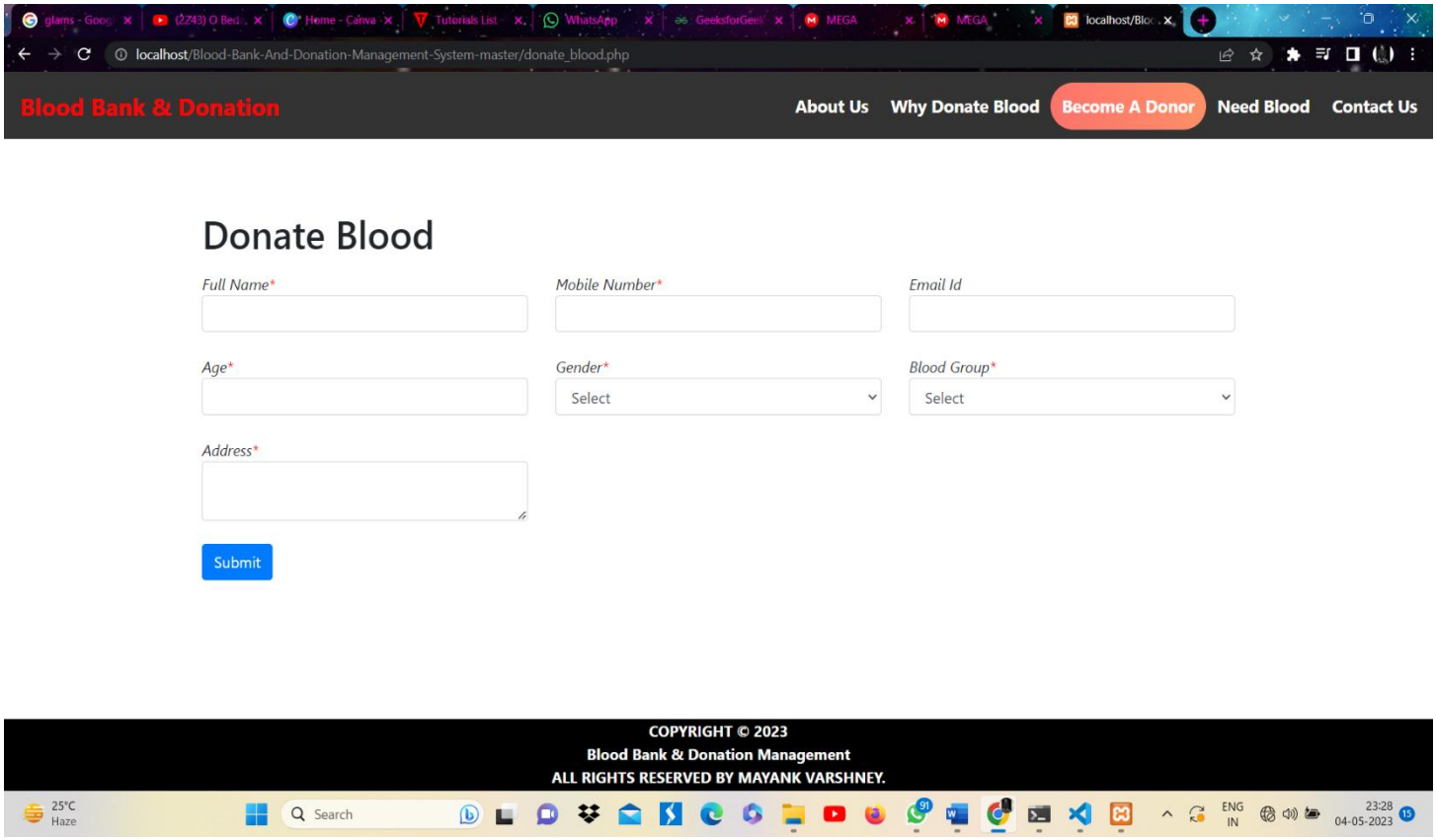
Admin Login Page:



Admin Dashboard :



Become a Donor -:



Chapter-6 References

- www.javatpoint.com
- www.w3school.com
- www.tutorialspoint.com
- www.beta-labs.in

Chapter-7

Data Collection & Links

1. ## Project GitHub Link:

https://github.com/Mayankvarshney25/MINIPROJECTII/tree/main/Blood-Bank-And-Donation-Management-System-master

2. ## Live Project Link:

https://mayankvarshney25.github.io/MINIPROJECT-II/