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## **REPORT FOR THE BLOOD DONATION WEBSITE**

AS A PROJECT WORK FOR THE COURSE

**INTERNET PROGRAMMING (CSE 326)**

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**DATE OF SUBMISSION:** 03/12/2022

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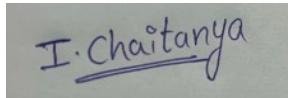
**SCHOOL OF COMPUTER SCIENCE AND  
ENGINEERING LOVELY PROFESSIONAL  
UNIVERSITY, JALANDHAR, PUNJAB, INDIA.**

## **DECLARATION**

We hereby me and my team members declare that the project work reported entitled “Blood Donation WEBSITE” in partial fulfillment of the requirement for the award of Degree for Bachelors of Technology in CSE at Lovely Professional University, Phagwara, Punjab is an authentic work carried out under supervision of my supervisor Dr.Goutam Majumder. The content of this project represents authentic and honest effort conducted, in its entirety, by me and my team. We are fully responsible for the contents of our project work.

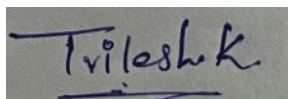
Student Name: CHAITANYA IMMADI  
TRILESH PAVAN KATREDDY  
SAI CHAITANYA ARVA

Student Signature :

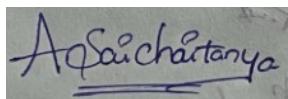


I·Chaitanya

Registration Number: 12210947  
12211463  
12210150



Trilesh.K



A.SaiChaitanya

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## 1.1 INTRODUCTION

### HTML:

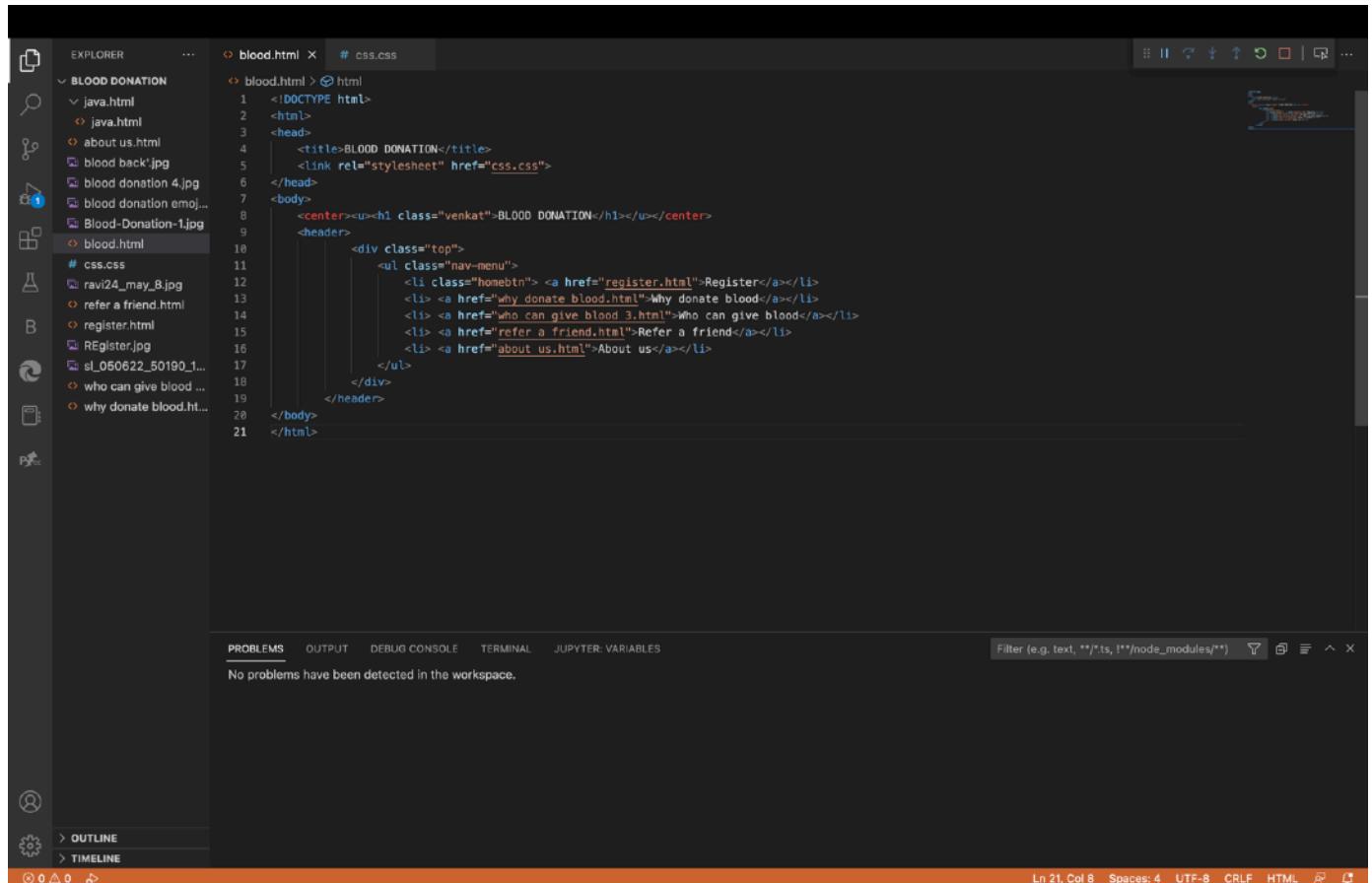
HTML stands for Hyper Text Markup Language. It is used to design web pages using a markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between web pages. A markup language is used to define the text document within the tag which defines the structure of web pages. This language is used to annotate (make notes for the computer) text so that a machine can understand it and manipulate text accordingly. Most markup languages (e.g. HTML) are human-readable. The language uses tags to define what manipulation has to be done on the text.

**CSS:** Cascading Style Sheets, fondly referred to as **CSS**, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page. It describes how a webpage should look: it prescribes colors, fonts, spacing, and much more. In short, you can make your website look however you want. CSS lets developers and designers define how it behaves, including how elements are positioned in the browser.

While html uses tags, css uses rule sets. CSS is easy to learn and understand, but it provides powerful control over the presentation of an HTML document.

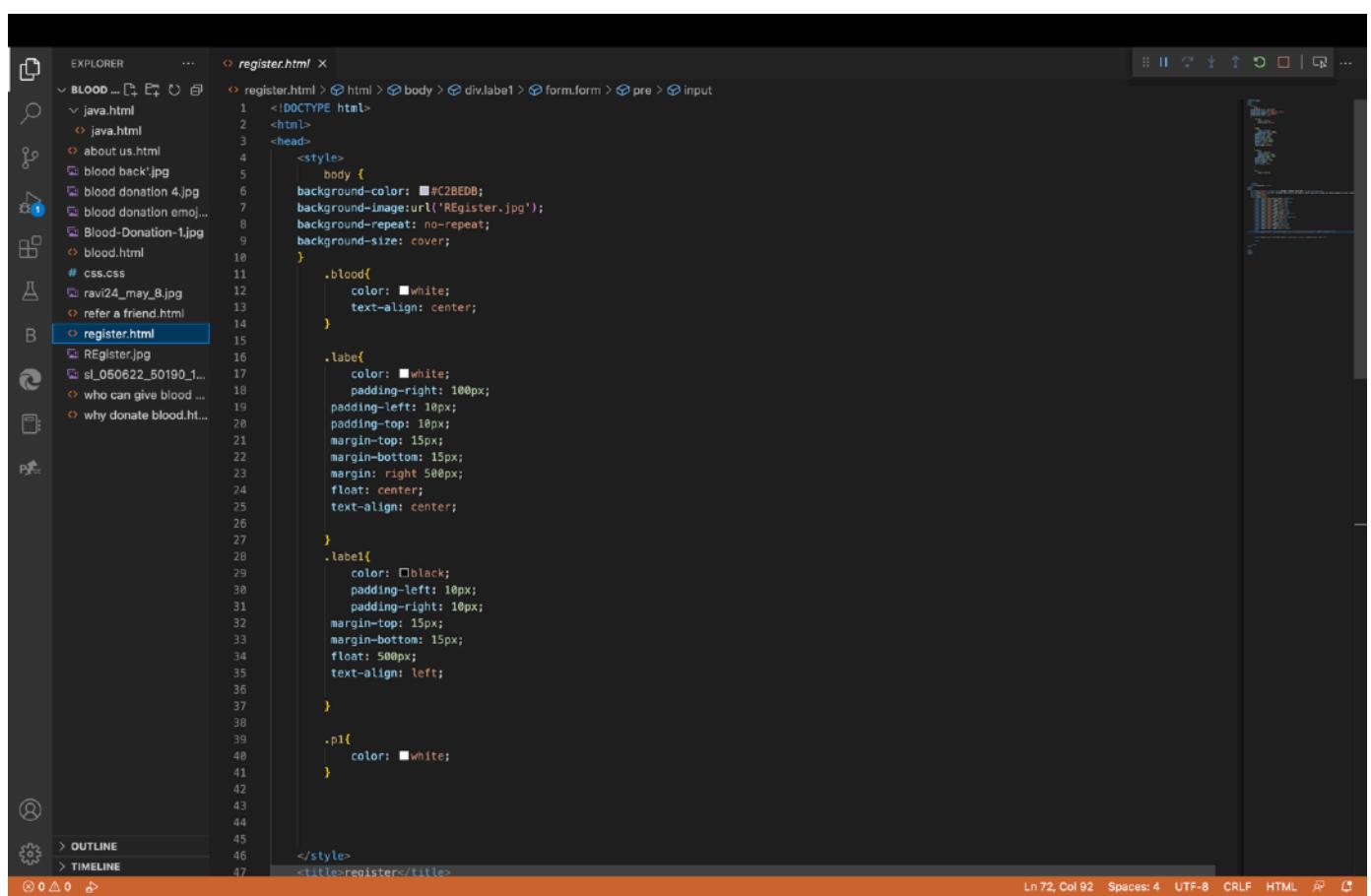
**JAVA SCRIPT:** **JavaScript** is a lightweight, cross-platform, and interpreted compiled programming language which is also known as the scripting language for webpages. It is well-known for the development of web pages, many non-browser environments also use it. JavaScript can be used for [Client-side](#) developments as well as [Server-side](#) developments. Javascript is both imperative and declarative type of language. JavaScript contains a standard library of objects, like [Array](#), [Date](#), and [Math](#), and a core set of language elements like [operators](#), [control structures](#), and [statements](#).

## 1.2 HTML PAGE SOURCE CODE



The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER** sidebar: Shows files like `BLOOD DONATION`, `java.html`, `about us.html`, `blood back.jpg`, `blood donation 4.jpg`, `blood donation emoji...`, `Blood-Donation-1.jpg`, `blood.html`, `# css.css`, `ravi24_may_8.jpg`, `refer a friend.html`, `register.html`, `REgister.jpg`, and `s_L050622_50190_1...`.
- Code Editor**: The active file is `blood.html`. The code includes an `<h1>` header, a `<ul>` menu, and a `<div>` for the top section.
- PROBLEMS** tab: Shows "No problems have been detected in the workspace."
- Bottom Status Bar**: Includes icons for user profile, outline, timeline, and file operations, along with status information: Ln 21, Col 8, Spaces: 4, UTF-8, CRLF, HTML.



The screenshot shows the Visual Studio Code interface with the following details:

- EXPLORER** sidebar: Shows files like `BLOOD ...`, `java.html`, `about us.html`, `blood back.jpg`, `blood donation 4.jpg`, `blood donation emoji...`, `Blood-Donation-1.jpg`, `blood.html`, `# css.css`, `ravi24_may_8.jpg`, `refer a friend.html`, `register.html`, `REgister.jpg`, and `s_L050622_50190_1...`.
- Code Editor**: The active file is `register.html`. The code includes a `<style>` block with CSS rules for body, .blood, .label, and .pt1 classes.
- Bottom Status Bar**: Includes icons for user profile, outline, timeline, and file operations, along with status information: Ln 72, Col 92, Spaces: 4, UTF-8, CRLF, HTML.

EXPLORER

- BLOOD ...
  - java.html
  - java.html
  - about us.html
  - blood back.jpg
  - blood donation 4.jpg
  - blood donation emoji...
  - Blood-Donation-1.jpg
  - blood.html
  - # css.css
  - ravi24\_may\_8.jpg
  - refer a friend.html
  - register.html**
  - REgister.jpg
  - s\_l\_050622\_50190\_1...
  - who can give blood ...
  - why donate blood.ht...

register.html

```

44
45
46
47 </style>
48 <title>register</title>
49 </head>
50 <body>
51 <h1 class="blood"><strong><large>BECOME A DONAR WITH NOW!</large></strong></h1>
52 <p><b class="p1"><big>let's us know that you're willing to save lives.we'll send you blood request in your locality through whatsapp</big></b></p>
53 <div class="form">
54   <label class="label">First Name:</label><br>
55   <input class="label" type="text"><br>
56   <label class="label">Last name:</label><br>
57   <input class="label" type="text"><br>
58   <label class="label">Email:</label><br>
59   <input class="label" type="text"><br>
60   <label class="label">Phone:</label><br>
61   <input class="label" type="number"><br>
62   <label class="label">Blood group:</label><br>
63   <input class="label" type="text"><br>
64   <label class="label">Date of birth:</label><br>
65   <input class="label" type="date"><br>
66   <label class="label">City:</label><br>
67   <input class="label" type="text"><br>
68   <label class="label">Address:</label><br>
69   <input class="label" type="text"><br>
70   <label class="label" type="text"></label>
71 <pre>
72   <input type="button" onclick="alert('you are sucessfully logined!')" value="submit"><br>
73
74
75   <input type="reset" onclick="alert('sucessfully reset!')" value="Reset Now"><br>
76
77 </pre>
78
79 </form>
80 </div>
81 </div>
82 </body>
83 </html>
84

```

Ln 72, Col 92 Spaces: 4 CRLF HTML

EXPLORER

- BLOOD ...
  - java.html
  - java.html
  - about us.html
  - blood back.jpg
  - blood donation 4.jpg
  - blood donation emoji...
  - Blood-Donation-1.jpg
  - blood.html
  - # css.css
  - ravi24\_may\_8.jpg
  - refer a friend.html
  - register.html
  - REgister.jpg
  - s\_l\_050622\_50190\_1...
  - who can give blood ...
  - why donate blood.ht...**

why donate blood.html

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <title>Why donate blood</title>
5   <style>
6     .slogan{
7       text-align: left;
8       color: ■white;
9     }
10    .font{
11      font-weight: bold;
12      font-size: large;
13      color: ■white;
14    }
15
16    .dimage{
17      float:right;
18      margin-right: 300px;
19      margin-left: 250px;
20    }
21
22  </style>
23 </head>
24 <body bgcolor="black">
25   <p class="dimage"></p>
26   <h1 class="slogan"><strong><b>why donate blood</b></strong><em></em></h1>
27   <h1 class="font"><em><strong>Importance of blood</strong></em></h1>
28   <p class="font"><em><b>A blood donation is truly an altruistic gift that an individual can give to others in need. In only 45-60 minutes, an e...


A study supported by AABB's National Blood Foundation■ red;(TRANSFUSION 2002;42:1225) more than 5,000 blood donors to



</b></p>


- <em><strong>platelets help blood to clot when injuries occur</strong></em></li>
- <em><strong>provides plasma proteins and coagulation factors to the different parts of the body that needs them.</strong></em></li>



<h1 class="slogan"><em><strong>Slogans</strong></em></h1>



- <em><strong><b>Once a blood donor is always a lifesaver.</b></strong></em></li>
- <li><em><strong><b>A blood bag in time saves a life.</b></strong></em></li>
- <li><em><strong><b>Donate today, get help tomorrow.</b></strong></em></li>
- <li><em><strong><b>Safe blood saves lives and improves health.</b></strong></em></li>



</ul>
</body>


```

Ln 25, Col 95 Spaces: 4 CRLF HTML

EXPLORER

who can give blood 3.html X

```
<!DOCTYPE html>
<html lang="en">
<head>
<style>
    .bg {
        background-color: #C2BEBD;
        background-image: linear-gradient(rgba(0,0,0,0.5),rgba(0,0,0,0.5)),url('ravi24_may_8.jpg');
        background-position: fixed;
        position: relative;
    }
    .give{
        color: #rgba(99, 241, 33, 0.366);
        text-align: center;
    }
    .can{
        float: right;
        font-weight: bold;
        font-size: large;
        color:#rgb(240, 237, 237);
    }
</style>
</head>
<body class="bg">
<h1 class="give"><em><strong><u>Who can give blood</u></strong></em></h1>
<ul class="can">
<li><em><strong>Most people can give blood if they are in good health. There are some basic requirements one need to fulfill in order to be able to give blood. Age should be from 18–60 years</strong></em></li>
<li><em><strong>In some countries national legislation permits 16–17 year-olds to donate provided that they fulfil the physical and hematological requirements</strong></em></li>
<li><em><strong>You must be in good health at the time you donate.</strong></em></li>
<li><em><strong>You cannot donate if you have a cold, flu, sore throat, cold sore, stomach bug or any other infection.</strong></em></li>
<li><em><strong>You must not donate blood If you do not meet the minimum haemoglobin level for blood donation</strong></em></li>
<li><em><strong>If the body piercing was performed by a registered health professional and any inflammation has settled completely, you can donate blood</strong></em></li>
<p class="can"></p>
<h2><em><strong><u>Before blood Donation</u></strong></em></h2>
<li><em><strong>Make sure your Hb in within normal range.</strong></em></li>
<li><em><strong>Eat iron-rich diet like beans, spinach, fish, red meat and iron-fortified cereals.</strong></em></li>
<li><em><strong>Have a sound sleep and drink lots of fluids.</strong></em></li>
<li><em><strong>No alcohol should be consumed before the donation day.</strong></em></li>
<li><em><strong>Stop taking blood thinning medication before 2–3 days, if any.</strong></em></li>
<h2><em><strong><u>Weight</u></strong></em></h2>
<li><em><strong>You weigh at least 50 kg.</strong></em></li>
<li><em><strong>Donors of whole blood donations should weigh at least 45 kg to donate 350 ml ± 10%.</strong></em></li>

```

Ln 17, Col 26 Spaces: 4 UTF-8 CRLF HTML

EXPLORER

who can give blood 3.html X

```
<!DOCTYPE html>
<html lang="en">
<head>
<style>
    .bg {
        background-color: #C2BEBD;
        background-image: linear-gradient(rgba(0,0,0,0.5),rgba(0,0,0,0.5)),url('ravi24_may_8.jpg');
        background-position: fixed;
        position: relative;
    }
    .give{
        color: #rgba(99, 241, 33, 0.366);
        text-align: center;
    }
    .can{
        float: right;
        font-weight: bold;
        font-size: large;
        color:#rgb(240, 237, 237);
    }
</style>
</head>
<body class="bg">
<h1 class="give"><em><strong><u>Who can give blood</u></strong></em></h1>
<ul class="can">
<li><em><strong>Most people can give blood if they are in good health. There are some basic requirements one need to fulfill in order to be able to give blood. Age should be from 18–60 years</strong></em></li>
<li><em><strong>In some countries national legislation permits 16–17 year-olds to donate provided that they fulfil the physical and hematological requirements</strong></em></li>
<li><em><strong>You must be in good health at the time you donate.</strong></em></li>
<li><em><strong>You cannot donate if you have a cold, flu, sore throat, cold sore, stomach bug or any other infection.</strong></em></li>
<li><em><strong>You must not donate blood If you do not meet the minimum haemoglobin level for blood donation</strong></em></li>
<li><em><strong>If the body piercing was performed by a registered health professional and any inflammation has settled completely, you can donate blood</strong></em></li>
<p class="can"></p>
<h2><em><strong><u>Before blood Donation</u></strong></em></h2>
<li><em><strong>Make sure your Hb in within normal range.</strong></em></li>
<li><em><strong>Eat iron-rich diet like beans, spinach, fish, red meat and iron-fortified cereals.</strong></em></li>
<li><em><strong>Have a sound sleep and drink lots of fluids.</strong></em></li>
<li><em><strong>No alcohol should be consumed before the donation day.</strong></em></li>
<li><em><strong>Stop taking blood thinning medication before 2–3 days, if any.</strong></em></li>
<h2><em><strong><u>Weight</u></strong></em></h2>
<li><em><strong>You weigh at least 50 kg.</strong></em></li>
<li><em><strong>Donors of whole blood donations should weigh at least 45 kg to donate 350 ml ± 10%.</strong></em></li>
<h2><em><strong><u>Travel</u></strong></em></h2>
<li><em><strong>Travel to areas where mosquito-borne infections are endemic, e.g. malaria, may result in a temporary deferral.</strong></em></li>
<li><em><strong>Many countries also implemented the policy to defer blood donors with a history of travel or residence for defined cumulative periods</strong></em></li>
<h2><em><strong><u>Pregnancy and breastfeeding</u></strong></em></h2>
<li><em><strong>Following pregnancy, the deferral period should last as many months as the duration of the pregnancy.</strong></em></li>
<li><em><strong>It is not advisable to donate blood while breast-feeding. Following childbirth, the deferral period is at least 9 months (6 months for mothers who exclusively breastfeed)</strong></em></li>
<ul>
<li><em><strong>Donors of platelet donations should wait at least 12 months between the last donation and the next donation (6 months for mothers who exclusively breastfeed).</strong></em></li>
<li><em><strong>Donors of plasma donations should wait at least 6 months between the last donation and the next donation (4 months for mothers who exclusively breastfeed).</strong></em></li>
<li><em><strong>Donors of red cell donations should wait at least 12 months between the last donation and the next donation (6 months for mothers who exclusively breastfeed).</strong></em></li>
</ul>
</body>
</html>
```

Ln 17, Col 26 Spaces: 4 UTF-8 CRLF HTML

EXPLORER

refer a friend.html

```
<!DOCTYPE html>
<html>
<head>
<title>REFER</title>
<link href="/refer.css" rel="stylesheet">
</head>
<body>
<div class="container">
<div class="row mt-30 mb-30">
<div class="col-sm-12 col-md-3">
<div class="share-boxes">

<p>Share with your friends</p>
</div>
</div>
<div class="col">
<div class="refer-form-sec">
<div class="col">
<div class="refer-image">

</div>
</div>
<div class="col">
<div class="refer-form-content">
<h2>Refer To Friends</h2>
<form action="#" method="post">
<input type="text" name="Your Name" placeholder="Your Friend Name">
<input type="text" name="Your Email" placeholder="Your Friend Email">
<input type="text" name="Your Blood Group" placeholder="Your Friend Blood-Group">
<input type="text" name="Contact NO." placeholder="Your Friend Phone NO.">
<p>
<label class="checkbox">i have read and accept the T & C and privacy policy
<input type="checkbox"/>
<span class="checkmark"></span>
</label></p>
<button type="submit" value="Save Blood Save Life">Save</button>
</form>
</div>
</div>
</div>
</div>
</div>
</div>
```

Ln 1, Col 1 Spaces: 2 UTF-8 CRLF HTML

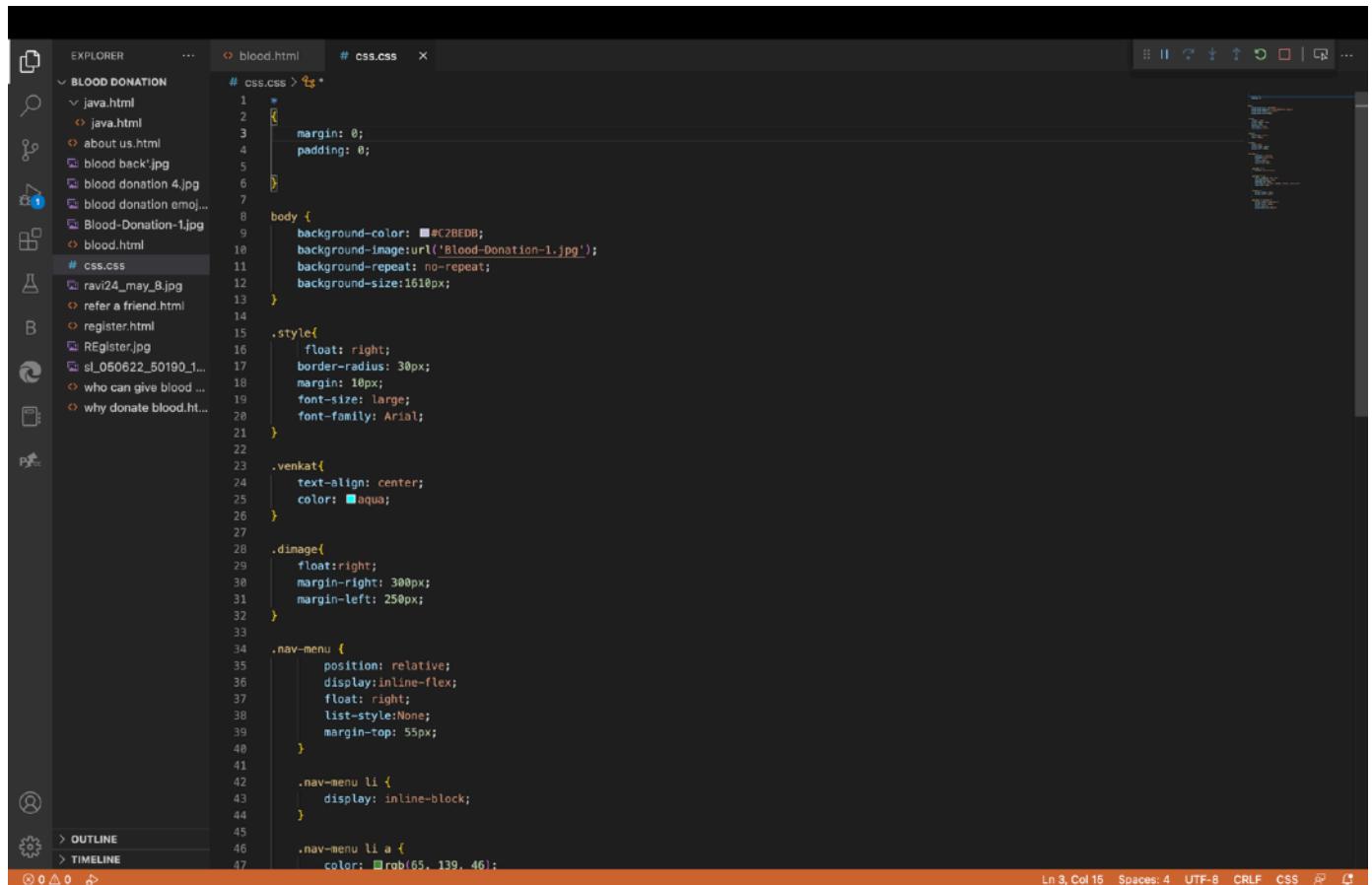
EXPLORER

about us.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>About us</title>
<style>
.about{
    color: #whitesmoke;
}
</style>
</head>
<body bcolor="black">
<h1 class="about"><em><strong><center><u>About us</u></center></strong></em></h1>
<p class="about"><em><b>We focus on providing blood to providing blood to the people who needs it .There are some querries that you might have about our services</b></em></p>
<h2 class="about"><em><b>How much blood can be taken?</b></em></h2>
<p class="about"><em><b>Our body has 5.5 ltr of blood of which only 350 ml - 450 ml of blood is taken depending upon weight of donor.<br> Majority of healthy adults can tolerate withdrawal of one unit of blood. The withdrawn blood volume is restored within 24 hours and the hemoglobin and cell components are restored in 2 months.<br> Therefore it is safe to donate blood every three months.</b></em></p>
<h2 class="about"><em><b>What is done with the blood collected?</b></em></h2>
<p class="about"><em><b>The blood collected in sterile, pyrogen free containers with anticoagulants like CPDA or CPDA with SAGM. This prevents clotting and provides nutrition for the cells. This blood is stored at 2-6 C or -20 C depending on the component prepared. Donated blood undergoes various tests like blood grouping antibody detection, testing of infections like hepatitis, AIDS, Malaria, syphilis and before it reaches the recipient it undergoes compatibility testing with the recipient blood.</b></em></p>
<h2 class="about"><em><b>Modern Blood Transfusion Practice</b></em></h2>
<p class="about"><em><b>Modern blood transfusion basically deals with the optimal use of one unit of blood. One unit of whole blood is separated into components making it available to different patients according to their requirement. Thus one unit of blood is converted into packed cell volume, fresh frozen plasma, platelet concentrate, cryoprecipitate and granulocytes concentrate. Another important practice is apheresis. This is separation of only desired component from the donor and return the remaining constituent back to donor. This technique is also used for remaining pathological substance in patients. Withdrawal of blood for transfusion is regarded as a safe procedure now and blood donor has emerged as the single most vital link.</b></em></p>
</body>
</html>
```

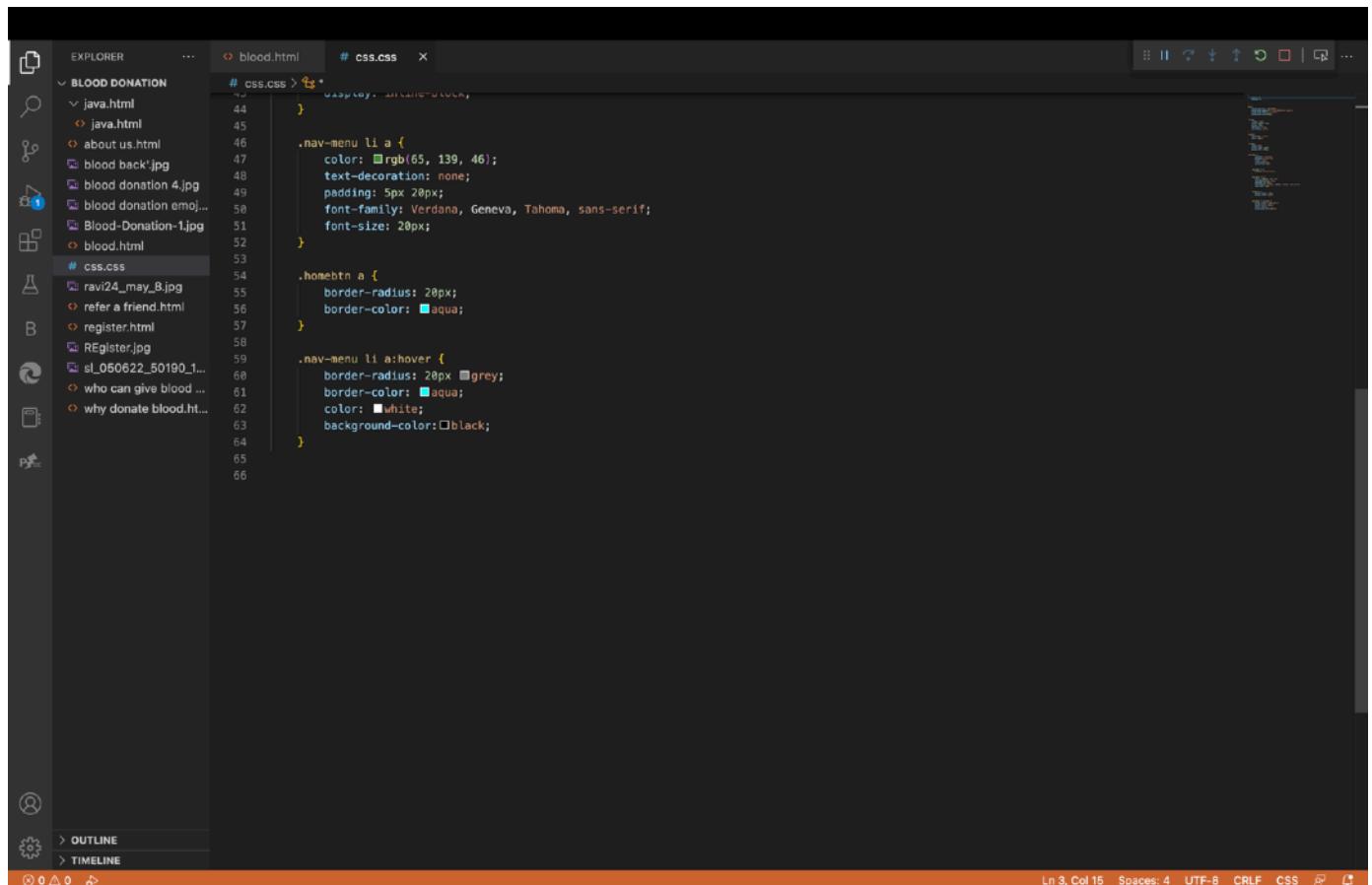
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF HTML

## 1.3 CSS MAIN PAGE SOURCE CODE



The screenshot shows the Visual Studio Code interface with the CSS file # css.css open. The Explorer sidebar on the left lists various files and folders related to a "BLOOD DONATION" project. The CSS code defines styles for the main body, a style class, a .image class, a .nav-menu class, and its li and a:link children. It also defines a .homebtn class and its a:link child. The status bar at the bottom indicates the code is at Line 3, Column 15, with 4 spaces, using UTF-8 encoding, and showing CRLF line endings.

```
* { margin: 0; padding: 0; }
body {
    background-color: #C2BEDB;
    background-image:url('Blood-Donation-1.jpg');
    background-repeat: no-repeat;
    background-size:1610px;
}
.style{
    float: right;
    border-radius: 30px;
    margin: 10px;
    font-size: large;
    font-family: Arial;
}
.venkat{
    text-align: center;
    color: aqua;
}
.image{
    float:right;
    margin-right: 300px;
    margin-left: 250px;
}
.nav-menu {
    position: relative;
    display:inline-flex;
    float: right;
    list-style:None;
    margin-top: 55px;
}
.nav-menu li {
    display: inline-block;
}
.nav-menu li a {
    color: #rgb(65, 139, 46);
}
```



This screenshot shows the same VS Code environment with the CSS file # css.css open. The code has been updated to include styling for the .nav-menu li a:link and a:visited pseudo-classes, as well as a .homebtn class. The status bar at the bottom remains the same, indicating Line 3, Column 15, with 4 spaces, using UTF-8 encoding, and showing CRLF line endings.

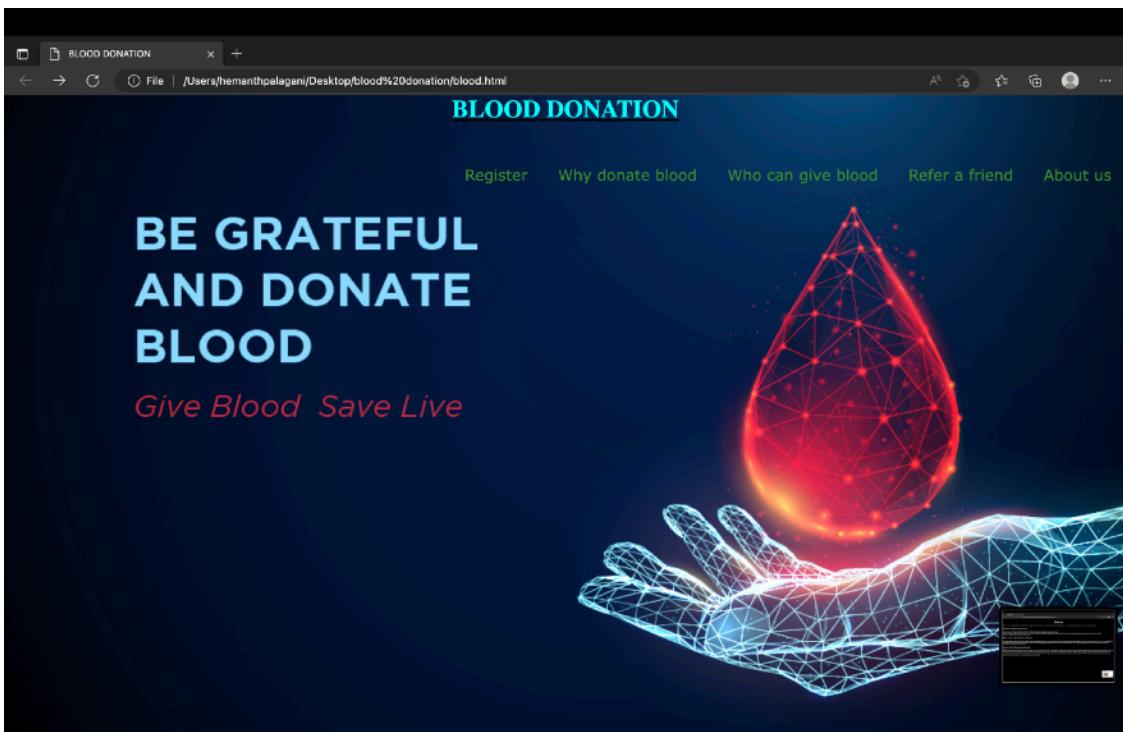
```
* { margin: 0; padding: 0; }
.nav-menu li a {
    color: #rgb(65, 139, 46);
    text-decoration: none;
    padding: 5px 20px;
    font-family: Verdana, Geneva, Tahoma, sans-serif;
    font-size: 20px;
}
.homebtn a {
    border-radius: 20px;
    border-color: aqua;
    color: white;
    background-color: black;
}
.nav-menu li a:hover {
    border-radius: 20px #grey;
    border-color: aqua;
    color: white;
    background-color: black;
```

## 1.4 JAVASCRIPT SOURCE CODE

```
<pre>
<input type="button" onclick="alert('you are sucessfully logined')" value ="submit"><br>

<input type="reset" onclick="alert('sucessfully reset')" value="Reset Now"><br>
```

## 1.5 MAIN OUTPUT PAGE

A screenshot of a web browser showing the "Who can give blood" page. The title bar says "Who can give blood". The main heading is "Who can give blood". Below it is a list of requirements for blood donors:

- Most people can give blood if they are in good health. There are some basic requirements one needs to fulfill in order to become a blood donor. Below are some basic eligibility guidelines:

**Age**

- Age should be from 18-60 years
- In some countries national legislation permits 16–17 year-olds to donate provided that they fulfil the physical and hematological criteria required and that appropriate consent is obtained.

**Health**

- You must be in good health at the time you donate.
- You cannot donate if you have a cold, flu, sore throat, cold sore, stomach bug or any other infection.
- You must not donate blood if you do not meet the minimum haemoglobin level for blood donation.
- If the body piercing was performed by a registered health professional and any inflammation has settled completely, you can donate blood after 12 hours.

**Before blood Donation**

- Make sure your Hb is within normal range.
- Eat iron-rich diet like beans, spinach, fish, red meat and iron-fortified cereals.
- Have a sound sleep and drink lots of fluids.
- No alcohol should be consumed before the donation day.
- Stop taking blood thinning medication before 2-3 days, if any.

**Weight**

- You weigh at least 50 kg.
- donors of whole blood donations should weigh at least 45 kg to donate 350 ml ± 10%.

**Travel**

- Travel to areas where mosquito-borne infections are endemic, e.g. malaria, may result in a temporary deferral.
- Many countries also implemented the policy to defer blood donors with a history of travel or residence for defined cumulative exposure periods in specified countries or areas, as a measure to reduce the risk of transmitting variant Creutzfeldt-Jakob Disease (vCJD) by blood transfusion.

register

File | /Users/hemanthpalagan/Desktop/blood%20donation/register.html

**B** This page says  
you are successfully logged in!

let's us know that you're willing to save lives.we'll send you bl

OK

First Name:

Last name:

Email:

Phone:

Blood group:

Date of birth:  
 dd / mm / yyyy

City

Address



Why donate blood

**Importance of blood**

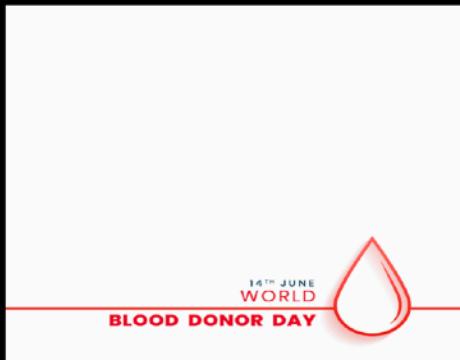
A blood donation is truly an altruistic gift that an individual can give to others in need. In only 45-60 minutes, an eligible individual can donate one unit of blood that can be separated into four individual components that could help save multiple lives. From one unit of blood, red blood cells can be extracted and used to treat patients who lost blood due to trauma or those who are recovering from surgery. Plasma, the liquid part of blood, is typically administered to patients with requiring treatment to improve blood clotting. Platelets, a third component, clot the blood when cuts or other open wounds occur, and are often used in the treatment of patients with cancer or those undergoing organ transplants. Finally, cryoprecipitated anti-hemophilic factor (AHF) is also used for clotting factors. A study supported by AABB's National Blood Foundation (TRANSFUSION 2002;42:122S) more than 5,000 blood donors to find out more about why they donate blood. Nearly 75% of the respondents said that they give blood to help others. Respondents also said that giving blood makes them feel good about themselves, supports their local communities and hospitals, supports their community, and "pays back" society for the times when they or their families have needed blood transfusions in the past.

- blood cells are filled with hemoglobin and carry oxygen from our lungs to the rest of our bodies
- platelets help blood to clot when injuries occur
- provides plasma proteins and coagulation factors to the different parts of the body that needs them.

**Slogans**

- Once a blood donor is always a lifesaver.
- A blood bag in time saves a life.
- Donate today, get help tomorrow.
- Safe blood saves lives and improves health.

14TH JUNE WORLD BLOOD DONOR DAY




REFER

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Save Blood Save Life



About us

We focus on providing blood to providing blood to the people who needs it .There are some querries that you might have,so we have provided the answers for how certain things are done

**How much blood can be taken?**

Our body has 5.5 ltr of blood of which only 350 ml - 450 ml of blood is taken depending upon weight of donor.  
Majority of healthy adults can tolerate withdrawal of one unit of blood. The withdrawn blood volume is restored within 24 hours and the hemoglobin and cell components are restored in 2 months.  
Therefore it is safe to donate blood every three months.

**What is done with the blood collected?**

The blood collected in sterile, pyrogen free containers with anticoagulants like CPDA or CPDA with SAGM. This prevents clotting and provides nutrition for the cells. This blood is stored at 2-6 C or -20 C depending on the component prepared. Donated blood undergoes various tests like blood grouping antibody detection, testing of infections like hepatitis, AIDS, Malaria, syphilis and before it reaches the recipient it undergoes compatibility testing with the recipient blood.

**Modern Blood Transfusion Practice:**

Modern blood transfusion basically deals with the optimal use of one unit of blood. One unit of whole blood is separated into components making it available to different patients according to their requirement. Thus one unit of blood is converted into packed cell volume, fresh frozen plasma, platelet concentrate, cryoprecipitate and granulocytes concentrate. Another important practice is apheresis. This is separation of only desired component from the donor and return the remaining constituent back to donor. This technique is also used for removing pathological substance in patients. Withdrawal of blood for transfusion is regarded as a safe procedure now and blood donor has emerged as the single most vital link.

