# BLOOD DONATION APP

**ABSTRACT:**

❖ The blood donation website is a platform designed to encourage and facilitate blood donation.

❖ This website aims to educate the public about the importance of donating blood and to provide information about the donation process.

❖ It also serves as a means for individuals to register as blood donors and for blood banks to manage their inventory.

❖ The website features a user-friendly interface that allows donors to schedule appointments, track their donation history, and receive notifications about upcoming blood drives.

❖ Additionally, the website provides resources for individuals who may have questions or concerns about the donation process.

❖ Overall, the blood donation website is a valuable tool for promoting and supporting the lifesaving act of blood donation.

**MODULES:**

The project consists of 2 modules, which are

❖ Become a donor
❖ Need a blood donor

**SOFTWARE REQUIREMENTS:**

❖ Operating system – Windows 10

❖ Web Server : XAMPP [5.6.4]

❖ Database : MYSQL [5.0.21]

❖ Coding Language : Web Tech (HTML, CSS, Java Script, PHP)

**LIMITATION OF EXISTING SYSTEM:**

❖ Time - consuming

❖ Inefficient

❖ Limited reach

❖ Lack of privacy

❖ Safety concerns

**PROGRAM CODE:**

**//SAVE_DATA**

```php
<?php
$name=$_POST['fullname'];

$number=$_POST['mobileno'];

$email=$_POST['emailid'];

$age=$_POST['age'];

$gender=$_POST['gender'];

$blood_group=$_POST['blood'];

$address=$_POST['address'];

$conn=mysqli_connect("localhost","root","","blood_donation") or die("Connection error");

$sql= "INSERT INTO donor_details(donor_name,donor_number,donor_mail,donor_age,donor_gender,donor_blood,donor_address)
values('{$name}','{$number}','{$email}','{$age}','{$gender}','{$blood_group}','{$address}')";

$result=mysqli_query($conn,$sql) or die("query unsuccessful.");

echo "<script>alert('Successfully Requested... ');</script>";

header("Location: http://localhost:7070/blood/index.php");

mysqli_close($conn);
 ?>
```

**//INDEX.PHP**

```html
<html>
<head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
 <meta name="description" content="">
 <meta name="author" content="">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
```

```html
<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/4.5.2/js/bootstrap.min.js"></script>
</head>
<body>
 <div id="page-container" style="margin-top:50px; position: relative;min-height: 84vh;">
   <div class="container">
   <div id="content-wrap" style="padding-bottom:50px;">
 <div class="row">
   <div class="col-lg-6">
     <h1 class="mt-4 mb-3">Need Blood</h1>
     </div>
 </div>
 <form name="needblood" action="" method="post">
 <div class="row">
 <div class="col-lg-4 mb-4">
 <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>
```

```html
</div>

</div>

<div class="col-lg-4 mb-4">

<div class="font-italic">Reason, why do you need blood?<span
style="color:red">*</span></div>

<div><textarea class="form-control" name="address" required></textarea></div></div>

</div>

<div class="row">

<div class="col-lg-1">

<div><input type="submit" name="search" class="btn btn-primary" value="Search"
style="cursor:pointer"></div>

</div>

<div class="col-lg-4 mb-4">

                                        Willing To DonateBlood,

                                        <a href="donate_blood.php">

                                            click here to Donate

                                        </a>

                                    </div>

</div><div class="row">
<?php if(isset($_POST['search'])){
  $bg=$_POST['blood'];
  $sql= "select * from donor_details join blood where
donor_details.donor_blood=blood.blood_id AND donor_blood='{$bg}' order by rand() limit
5";
  $result=mysqli_query($conn,$sql) or die("query unsuccessful.");
    if(mysqli_num_rows($result)>0)  {
    while($row = mysqli_fetch_assoc($result)) {
     ?>
     <div class="col-lg-4 col-sm-6 portfolio-item" ><br>
     <div class="card" style="width:300px">
```

```php
        <img class="card-img-top" src="blood_drop_logo.jpg" alt="Card image"
style="width:100%;height:300px">

        <div class="card-body">

          <h3 class="card-title"><?php echo $row['donor_name']; ?></h3>

          <p class="card-text">

            <b>Blood Group : </b> <b><?php echo $row['blood_group']; ?></b><br>

            <b>Mobile No. : </b> <?php echo $row['donor_number']; ?><br>

            <b>Gender : </b><?php echo $row['donor_gender']; ?><br>

            <b>Age : </b> <?php echo $row['donor_age']; ?><br>

            <b>Address : </b> <?php echo $row['donor_address']; ?><br>

          </p>

        </div>

      </div>

  </div>

  <?php

    }

  }

    else

    {

      echo '<div class="alert alert-danger">No Donor Found For your search Blood group
</div>';

    }

} ?>

</div>

</div>

</div>

</div>

</body>

</html>
```

**//BLOOD_DONATION**

-- Database: `blood_donation`

-- Table structure for table `blood`

```sql
CREATE TABLE `blood` (
  `blood_id` int(11) NOT NULL,
  `blood_group` varchar(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

-- Dumping data for table `blood`

```sql
INSERT INTO `blood` (`blood_id`, `blood_group`) VALUES
(1, 'B+'),
(2, 'B-'),
(3, 'A+'),
(4, 'O+'),
(5, 'O-'),
(6, 'A-'),
(7, 'AB+'),
(8, 'AB-');
```

-- Table structure for table `donor_details`

```sql
CREATE TABLE `donor_details` (
  `donor_id` int(11) NOT NULL,
  `donor_name` varchar(50) NOT NULL,
  `donor_number` varchar(10) NOT NULL,
  `donor_mail` varchar(50) DEFAULT NULL,
  `donor_age` int(60) NOT NULL,
  `donor_gender` varchar(10) NOT NULL,
  `donor_blood` varchar(10) NOT NULL,
  `donor_address` varchar(100) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

-- Dumping data for table `donor_details`

```sql
INSERT INTO `donor_details` (`donor_id`, `donor_name`, `donor_number`, `donor_mail`,
`donor_age`, `donor_gender`, `donor_blood`, `donor_address`) VALUES

(7, 'gd', '9585718037', 'gd@gmail.com', 20, 'Male', ' 2', 'Pondy'),

(8, 'gs', '9585718037', 'gs@gmail.com', 18, 'Male', ' 2', 'Pdy'),

(9, 'gs', '9585718037', 'gs@gmail.com', 18, 'Male', ' 2', 'Pdy');

-- Indexes for dumped tables

-- Indexes for table `blood`

ALTER TABLE `blood`

  ADD PRIMARY KEY (`blood_id`);

-- Indexes for table `donor_details`

ALTER TABLE `donor_details`

  ADD PRIMARY KEY (`donor_id`);

-- AUTO_INCREMENT for dumped tables

-- AUTO_INCREMENT for table `blood`

ALTER TABLE `blood`

  MODIFY `blood_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=9;

-- AUTO_INCREMENT for table `donor_details`

ALTER TABLE `donor_details`

  MODIFY `donor_id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=10;

COMMIT;
```

## 1) DONATE BLOOD:

# Donate Blood

Full Name*

Mobile Number*

Email Id

Age*

Gender*

Select

Blood Group*

Select

Select
B+
B-
A+
O+
O-
A-
AB+
AB-

Address*

Submit   Need Blood!

## 2) NEED BLOOD:

# Need Blood

Blood Group*

Select

Reason, why do you need blood?*

Search   Willing To DonateBlood, click here to Donate



### gd

**Blood Group :** B-
**Mobile No. :** 9585718037
**Gender :** Male
**Age :** 20
**Address :** Pondy



### gs

**Blood Group :** B-
**Mobile No. :** 9585718037
**Gender :** Male
**Age :** 18
**Address :** Pdy



### gs

**Blood Group :** B-
**Mobile No. :** 9585718037
**Gender :** Male
**Age :** 18
**Address :** Pdy

**DATABASE OUTPUT:**

**BLOOD GROUP TABLE:**

| blood_id | blood_group |
|---|---|
| 1 | B+ |
| 2 | B- |
| 3 | A+ |
| 4 | O+ |
| 5 | O- |
| 6 | A- |
| 7 | AB+ |
| 8 | AB- |

**BLOOD DONOR DETAILS:**

| donor_id | donor_name | donor_number | donor_mail | donor_age | donor_gender | donor_blood | donor_address |
|---|---|---|---|---|---|---|---|
| 7 | gd | 9585718037 | gd@gmail.com | 20 | Male | 2 | Pondy |
| 8 | gs | 9585718037 | gs@gmail.com | 18 | Male | 2 | Pdy |
| 9 | gs | 9585718037 | gs@gmail.com | 18 | Male | 2 | Pdy |