

SPRINT-3

DATE	28 October 2022
Team ID	PNT2022TMID00855
Project Name	Plasma Donor Application

The following user stories are implemented in this sprint.

- **USN-1: As a user, I can register for the application by entering my email, password, and confirming my password.**
- **USN-2: As a user, I can log into the application using my registered email & password.**

CODE:

dash.html:

```
<!DOCTYPE html>

<html>

  <head>

    <title>Plasma Donor Application</title>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <link rel="stylesheet" href="https://www.w3schools.com/w3css/4/w3.css">

    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Raleway">

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css">

  <style>

    html,body,h1,h2,h3,h4,h5 { font-family: "Raleway", sans-serif}

    body{

      position: relative;

    }

    .modal {

      visibility: hidden;

      opacity: 0;

      position: absolute;

      top: 0;

      right: 0;

      bottom: 0;

      left: 0;

      display: flex;

      align-items: center;

      justify-content: center;

      background: rgba(77, 77, 77, .7);
```

```
transition: all .4s;
}

.modal:target {
visibility: visible;
opacity: 1;
}

.modal__content {
border-radius: 4px;
position: relative;
width: 500px;
max-width: 90%;
background: #fff;
padding: 1em 2em;
border: 2px solid yellow;
}

/* .modal__footer {
text-align: right;
a {
color: #585858;
}
i {
color: #d02d2c;
}
} */

.modal__close {
position: absolute;
top: 10px;
right: 10px;
color: #585858;
```

```
text-decoration: none;

font-size: 2rem;
}

.request-button{
height: auto;
padding: .5em 1em;
text-transform: uppercase;
background-color: transparent;
border: 1px solid #000;
border-radius: 100vmax;
}

.request-button a{
text-decoration: none;
}

form{
padding: 1em;
font-size: 1.2rem;
}

.form-control {
display: flex;
justify-content: space-between;
margin-bottom: 1.5em;
}

.form-control:last-child{
margin-bottom: 0;
}

.form-control * {
width: 100%;
}
```

```
.form-control button{  
width: auto;  
padding: .5em 2em;  
background-color: transparent;  
border: 1px solid #000;  
border-radius: 100vmax;  
}  
  
.gender-field {  
display: grid;  
grid-auto-flow: column;  
}  
  
input{  
outline: none;  
}  
  
input[type=submit]{  
background-color: transparent;  
border: none;  
margin: 0;  
padding: 0;  
}  
  
.request-container{  
display: flex;  
justify-content: center;  
align-items: center;  
gap: 2em;  
position: absolute;  
top: 1em;  
right: 2em;  
}
```

```
.request-container form{
margin: 0;
padding: 0;
}
</style>
</head>
<body class="w3-pale-yellow">
<div class="request-container">
<div class="request-button">
<a href="#demo-modal">REQUEST</a>
</div>
<div class="request-button">
<form action="/logout" method="POST">
<input type="submit" value="LOG OUT">
</form>
</div>
</div>
<div id="demo-modal" class="modal">
<div class="modal__content">
<h1>Request Form</h1>
<form action="/req" method="POST">
<div class="form-control">
<label for="username">Username:</label>
<input
type="text"
id="username"
name="username"
maxlength="30"
placeholder="username">
```

```
        required
    />
</div>
<div class="form-control">
    <label for="email">Email:</label>
    <input
        type="email"
        id="email"
        name="email"
        placeholder="email"
        required
    />
</div>
<div class="form-control">
    <label for="mobile">Mobile:</label>
    <input
        type="number"
        id="mobile"
        name="mobile"
        placeholder="mobile"
        required
    />
</div>
<div class="form-control">
    <label for="bloodgroup">Blood Group:</label>
    <select name="blood" id="bloodgroup">
        <option value="" selected disabled hidden>
            Choose your blood group
        </option>
```

```

        <option value="O+">O+</option>
        <option value="A+">A+</option>
        <option value="B+">B+</option>
        <option value="AB+">AB+</option>
        <option value="O-">O-</option>
        <option value="A-">A-</option>
        <option value="B-">B-</option>
        <option value="AB-">AB-</option>
    </select>
</div>

<div class="form-control">
    <button type="submit">Submit</button>
    <button type="reset">Reset</button>
</div>

</form>

<a href="#" class="modal__close">&times;</a>

</div>

</div>

<!-- Top container -->

<div class="w3-bar w3-top w3-black w3-large" style="z-index:4">
    <button class="w3-bar-item w3-button w3-hide-large w3-hover-none w3-hover-text-light-grey" onclick="w3_open();"><i class="fa fa-bars"></i> Menu</button>
    <span class="w3-bar-item w3-right"></span>
</div>

<!-- Sidebar/menu -->

<nav class="w3-sidebar w3-collapse w3-amber w3-animate-left" style="z-index:3;width:300px;" id="mySidebar">
    <br>
    <div class="w3-container w3-row">
        <div class="w3-col s8 w3-bar">

```



```

        <span>Welcome, <strong>{ {un} }</strong></span><br>
        <a href="#" class="w3-bar-item w3-button"><i class="fa fa-user"></i></a>

    </div>

</div>

<hr>

<div class="w3-container">

    <h5>Dashboard</h5>

</div>

<div class="w3-bar-block">

    <a href="#" class="w3-bar-item w3-button w3-padding-16 w3-hide-large w3-dark-
grey w3-hover-black" onclick="w3_close()" title="close menu"><i class="fa fa-remove fa-
fw"></i> Close Menu</a>

    <a href="#" class="w3-bar-item w3-button w3-padding w3-blue"><i class="fa fa-
users fa-fw"></i> Overview</a>

    <a href="/index" class="w3-bar-item w3-button w3-padding"><i class="fa fa-home
fa-fw"></i> Home </a>

</div>

</nav>

<!-- Overlay effect when opening sidebar on small screens -->

<div class="w3-overlay w3-hide-large w3-animate-opacity" onclick="w3_close()"
style="cursor:pointer" title="close side menu" id="myOverlay"></div>

<!-- !PAGE CONTENT! -->

<div class="w3-main" style="margin-left:300px;margin-top:43px;">

    <!-- Header -->

    <header class="w3-container" style="padding-top:22px">

        <h5><b><i class="fa fa-dashboard"></i> My Dashboard</b></h5>

    </header>

    <div class="w3-row-padding w3-margin-bottom">

        <div class="w3-quarter">

            <div class="w3-container w3-amber w3-padding-16">

                <div class="w3-left"><i class="fa fa-tint w3-xxlarge"></i></div>

```

```

    <div class="w3-right">
        <h3>{{dicrow}}</h3>
    </div>

    <div class="w3-clear"></div>

    <h4>Plasma Availability</h4>

</div>

</div>

<div class="w3-quarter">
    <div class="w3-container w3-orange w3-text-white w3-padding-16">
        <div class="w3-left"><i class="fa fa-users w3-xxlarge"></i></div>
        <div class="w3-right">
            <h3>{{tot}}</h3>
        </div>
        <div class="w3-clear"></div>
        <h4>Application Users</h4>
    </div>

</div>

</div>

<div class="w3-panel">
    <div class="w3-twothird">
        <h5>Plasma </h5>
        <table class="w3-table w3-striped w3-khaki">
            <tr>
                <td><i class="fa fa-tint"></i></td>
                <td><b>A+</b></td>
                <td><i>1</i></td>
            </tr>
            <tr>
                <td><i class="fa fa-tint"></i></td>

```

A-
<i>0</i>

<i>class="fa fa-tint" </i>
B+
<i>1</i>

<i>class="fa fa-tint" </i>
B-
<i>0</i>

<i>class="fa fa-tint" </i>
AB+
<i>2</i>

<span <="" class="fa fa-tint" span="">
AB-
<i>1</i>

<i>class="fa fa-tint" </i>
O+
<i>1</i>

--

```

        <td><i class="fa fa-tint"></i></td>

        <td><b>O-</td>

        <td><i>0</i></td>

    </tr>

</table>

</div>

</div>

</div>

<hr>

<br>

<div class="w3-container w3-khaki w3-padding-16 w3-margin-top=100px" style="margin-left:300px;">

    <div class="w3-row">

        <div class="w3-container w3-third">

            <h5 class="w3-bottombar w3-border-green">Demographic</h5>

            <p>Language</p>

            <p>Country</p>

            <p>City</p>

        </div>

        <div class="w3-container w3-third">

            <h5 class="w3-bottombar w3-border-red">System</h5>

            <p>Browser</p>

            <p>OS</p>

            <p>More</p>

        </div>

        <div class="w3-container w3-third">

            <h5 class="w3-bottombar w3-border-orange">Target</h5>

            <p>Users</p>

            <p>Active</p>

            <p>Geo</p>

```

```

        <p>Interests</p>
    </div>
</div>
</div>
</div>
<!-- Footer -->
<footer class="w3-container w3-padding-16 w3-pale-yellow">
    <h4>FOOTER</h4>
    <p>Powered by <a href="https://www.w3schools.com/w3css/default.asp"
target="_blank">w3.css</a></p>
</footer>
<!-- End page content -->
</div>
</body>

```

app.py:

```

from turtle import st
from flask import Flask, render_template, request, redirect, url_for, session, jsonify
from markupsafe import escape
import os
from dotenv import load_dotenv
from sendgrid import sendgrid
from sendgrid.helpers.mail import Mail, Email, To, Content
import ibm_db

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=1bbf73c5-d84a-4bb0-85b9-
ab1a4348f4a4.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=32286;SECUR
ITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=xnw03376;PWD=CAip
5VvCHctcirIL","")

app = Flask(__name__)

load_dotenv() #load keys from .env

```

```

sg = sendgrid.SendGridAPIClient(api_key =
os.environ.get('GmWQl2hzTKeUsU776_Xkyw')) #set SendGrid API Key

from_email = Email("babinmon2001@gmail.com")

@app.route('/')

def home():

    sql = "select * from register where age=21 "

    stmt = ibm_db.prepare(conn, sql)

    ibm_db.execute(stmt)

    dicrow = ibm_db.fetch_assoc(stmt)

    print(dicrow)

    return render_template('index.html')


@app.route('/index')

def index():


    return render_template('index.html')


@app.route('/logout',methods=['POST','GET'])

def logout():

    if request.method == 'POST':

        return render_template('logout.html')

    else:

        return render_template('dash.html')


@app.route('/home',methods=['POST','GET'])

def homepage():

    if request.method == 'POST':

        return render_template('index.html')

    else:

        return render_template('logout.html')

```

```

@app.route('/req',methods=['POST','GET'])
def req():

    if request.method == 'POST':
        username = request.form['username']
        email = request.form['email']
        phone = request.form['mobile']
        blood=request.form['blood']

        insert_sql = "INSERT INTO request VALUES (?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, username)
        ibm_db.bind_param(prepare_stmt, 2, email)
        ibm_db.bind_param(prepare_stmt, 3, phone)
        ibm_db.bind_param(prepare_stmt, 4, blood)

        ibm_db.execute(prepare_stmt)

        return render_template('index.html',msg="saved successfully")

@app.route('/access',methods=['POST','GET'])
def accesss():

    if request.method == 'POST':
        username = request.form['username']
        email = request.form['email']
        phone = request.form['mobile']
        address=request.form['address']

```

```
password=request.form['password']
```

```
insert_sql = "INSERT INTO access VALUES (?, ?, ?, ?, ?)"
```

```
prep_stmt = ibm_db.prepare(conn, insert_sql)
```

```
ibm_db.bind_param(prepare_stmt, 1, username)
```

```
ibm_db.bind_param(prepare_stmt, 5, email)
```

```
ibm_db.bind_param(prepare_stmt, 3, phone)
```

```
ibm_db.bind_param(prepare_stmt, 4, address)
```

```
ibm_db.bind_param(prepare_stmt, 2, password)
```

```
ibm_db.execute(prepare_stmt)
```

```
return render_template('index.html',msg="saved successfully")
```

```
@app.route('/reg',methods = ['POST', 'GET'])
```

```
def reg():
```

```
    if request.method == 'POST':
```

```
        username = request.form['username']
```

```
        password = request.form['password']
```

```
        email = request.form['email']
```

```
        blood=request.form['blood-group']
```

```
        gender=request.form['gender']
```

```
        age=request.form['age']
```

```
        address=request.form['address']
```

```
        phone=request.form['mobile']
```

```
insert_sql = "INSERT INTO register VALUES (?, ?, ?, ?, ?, ?, ?, ?)"
```

```
prep_stmt = ibm_db.prepare(conn, insert_sql)
```

```
ibm_db.bind_param(prepare_stmt, 1, username)
```

```
ibm_db.bind_param(prepare_stmt, 2, password)
```



```

ibm_db.bind_param(prepare_stmt, 3, email)
ibm_db.bind_param(prepare_stmt, 4, blood)
ibm_db.bind_param(prepare_stmt, 5, gender)
ibm_db.bind_param(prepare_stmt, 6, age)
ibm_db.bind_param(prepare_stmt, 7, address)
ibm_db.bind_param(prepare_stmt, 8, phone)
ibm_db.execute(prepare_stmt)

to_email = To(email) # set user as recipient for confirmation email

subject = "Welcome to GetPlasma"

content = Content("text/html",

    "<p>Hello " + username + ",</p><p>Thank you for registering to the
GetPlasma Application!</p><p>If this wasn't you, then immediately report to our <a
href=\"mailto:getplasma@project@gmail.com\">admin</a> or just reply to this email.</p>")

email = Mail(from_email, to_email, subject, content) # construct email format
email_json = email.get() # get JSON-ready representation of the mail object

return render_template('index.html',msg="saved successfully")

@app.route('/login',methods = ['POST', 'GET'])
def login():
    if request.method == 'POST':
        username = request.form['username']
        password = request.form['password']
        sql = "select * from access where username=? and password=?"
        stmt = ibm_db.prepare(conn, sql)
        ibm_db.bind_param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm_db.execute(stmt)
        dic = ibm_db.fetch_assoc(stmt)

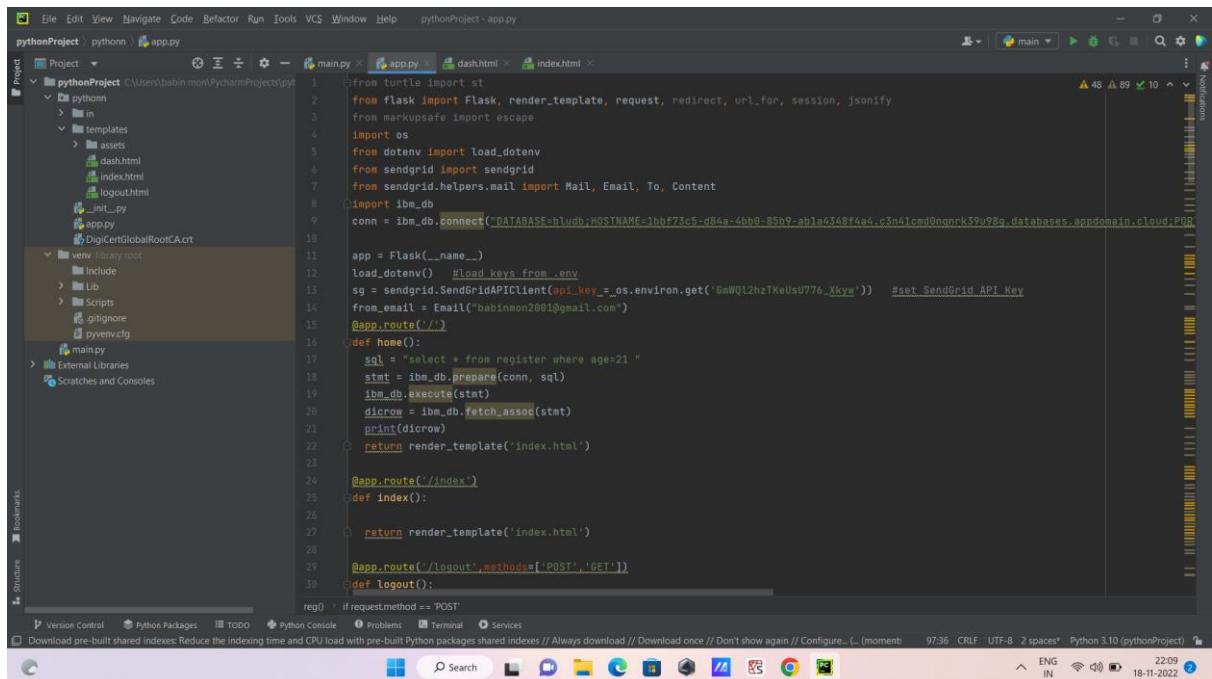
```

```

print(dic)
role = str()
requests = []
if dic:
    un=dic['USERNAME']
    print(un)
    sql = "select count(*) from register"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    dicrow = ibm_db.fetch_assoc(stmt)
    sql1 = "select count(*) from request"
    stmt1 = ibm_db.prepare(conn, sql1)
    ibm_db.execute(stmt1)
    dicrow1 = ibm_db.fetch_assoc(stmt1)
    sql2 = "select count(*) from access"
    stmt2 = ibm_db.prepare(conn, sql2)
    ibm_db.execute(stmt2)
    dicrow2 = ibm_db.fetch_assoc(stmt2)
    tot=(dicrow['1']+dicrow1['1']+dicrow2['1'])
    bloodA = ibm_db.fetch_assoc(stmt1)
    print(bloodA)
    return render_template('dash.html',un=un,dicrow=dicrow['1'],tot=tot)
else:
    return render_template('index.html')
return render_template('index.html')

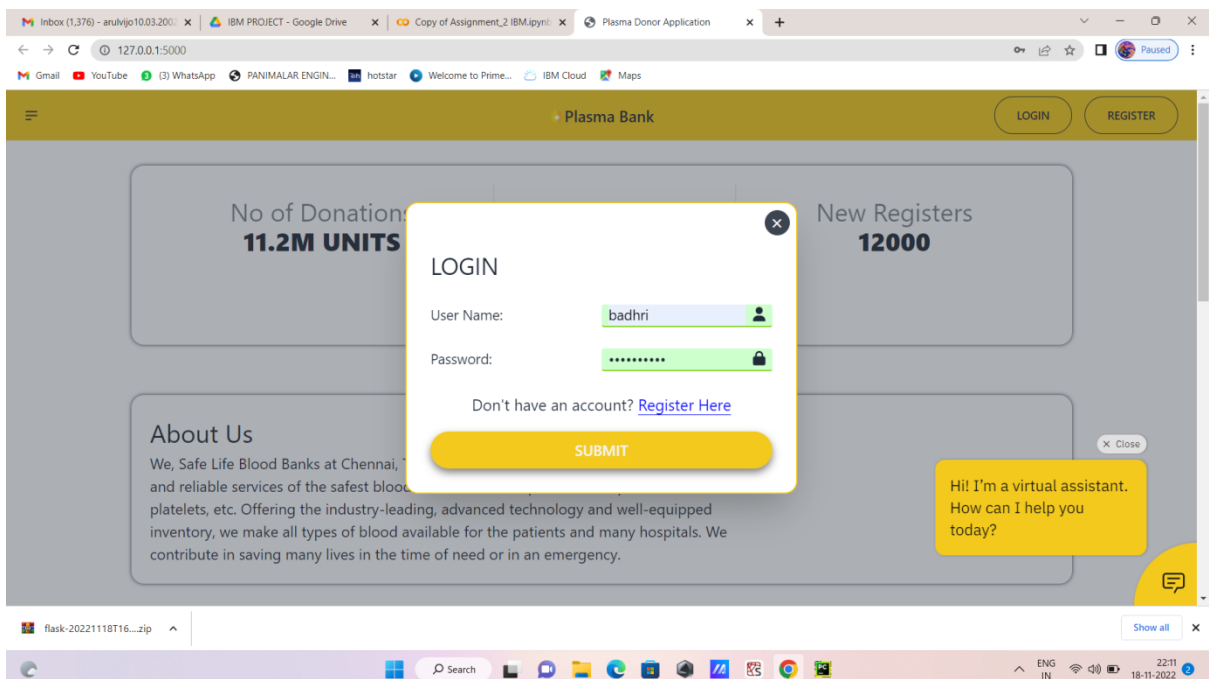
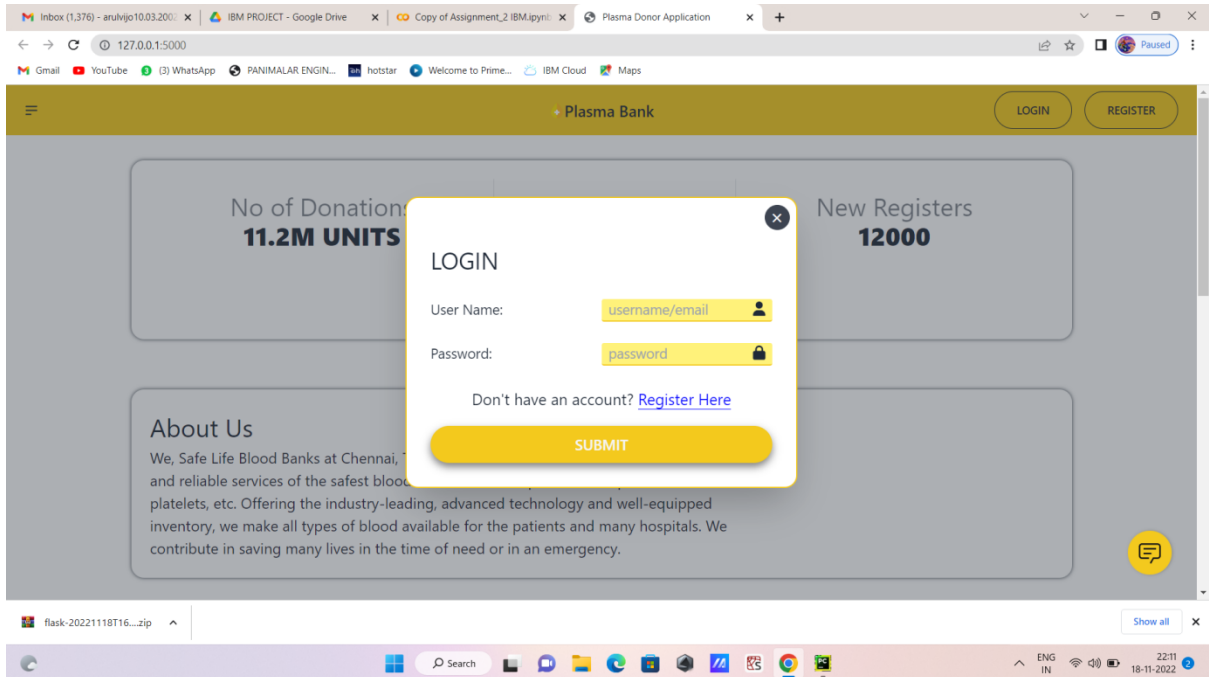
if __name__ == "__main__":
    app.run(debug=True)

```



SCREENSHOTS:

Login page:



Dashboard page

The screenshot shows a web browser window with the URL `127.0.0.1:5000/login`. The dashboard is titled "My Dashboard" and features a sidebar with navigation links: "Welcome, badihi", "Dashboard", "Overview" (highlighted), and "Home". The main content area displays two summary cards: "Plasma Availability" with a value of 6 and "Application Users" with a value of 12. Below these cards is a table titled "Plasma" showing the availability of different blood groups.

Blood Group	Availability
A+	1
A-	0
B+	1
B-	0
AB+	2
AB-	1
O+	1
O-	0

At the top right of the dashboard, there are buttons for "REQUEST" and "LOG OUT". The browser's taskbar at the bottom shows the system time as 22:11 on 18-11-2022.

Request Form

The screenshot shows the same web browser window as the dashboard page, but with a "Request Form" modal open. The modal contains the following fields and values:

- Username:
- Email:
- Mobile:
- Blood Group:

At the bottom of the modal are two buttons: "Submit" and "Reset". The background of the dashboard is dimmed, and the browser's taskbar at the bottom shows the system time as 22:12 on 18-11-2022.