

Name: Sofiya S Mujawar

Institute: A. P. Shah Institute of Technology, Thane

Application name: Plasma Donor App

GitHub link: <https://github.com/sofiya0707/PlasmaApp.git>

Demo Video Link:

<https://drive.google.com/file/d/1IsXOYHq0hIrf4S2w3fqXcHLbQhZqEnFX/view?usp=sharing>

Description:

In Plasma donor app is created for users who needs issue plasma requests.

For which user needs to register in the app.

User supposed to login through credentials.

After logging in user can request for plasma.

To complete this task following steps have been performed.

1.Setting up application environment.

- a. Install python
- b. Install pip
- c. Install flask
- d. Install ibm db

2.Implementing web application

- a. Created python code
- b. updated host name, port number, uid, password
- c. Downloaded ssl digital certificate
- d. Created IBM cloud database
- e. Created tables
- f. Given column names, data type
- g. Executed code with python app.py
- h. Tested our code on localhost:8080/login

3.Uploading source code on GitHub

- a. logged in to own GitHub
- b. Then created repository of our code
- c. Taken link of our GitHub repository

4. Deploy the app on OpenShift red-hat dedicated

- Under the developer tab go to Add → Import from Git → Pasted GitHub link → Create
- Go to topology in which we can check the status of building the app
- Once the build completed we can open the URL
- Our app is running successfully.

Screenshots:

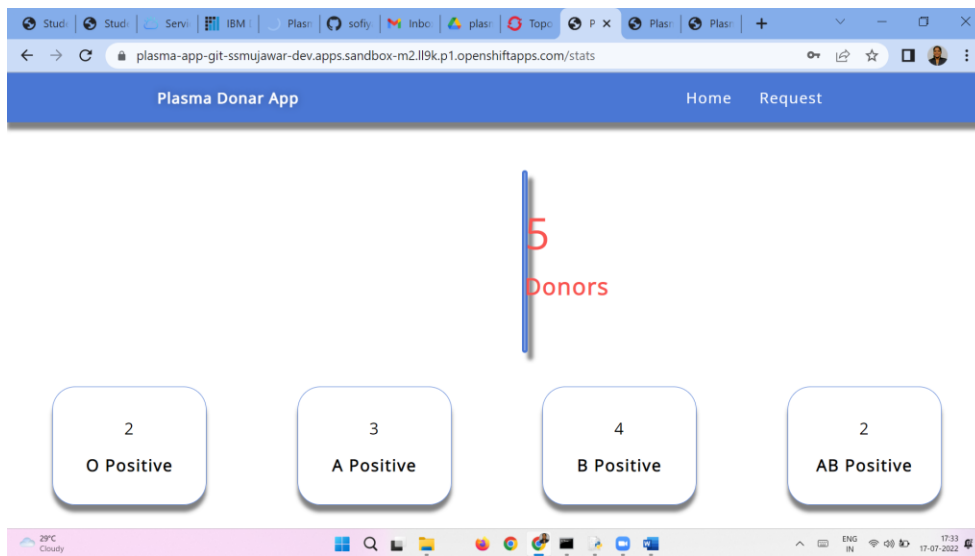
Registration page:

The screenshot shows a web browser window with the URL `plasma-app-git-ssmujawar-dev.apps.sandbox-m2.1l9k.p1.openshiftapps.com/registration`. The page has a blue header with "Plasma Donor App" on the left and "Home" on the right. The main content area contains a registration form with the following fields: "Enter Your Name", "Enter Email", "Enter 10-digit mobile number", "Enter Your City Name", "Select COVID infection status" (a dropdown menu), "Choose your blood group" (a dropdown menu), and "Enter Password". Below these fields is a blue "Register" button. The Windows taskbar at the bottom shows the date as 17-07-2022 and the time as 17:31.

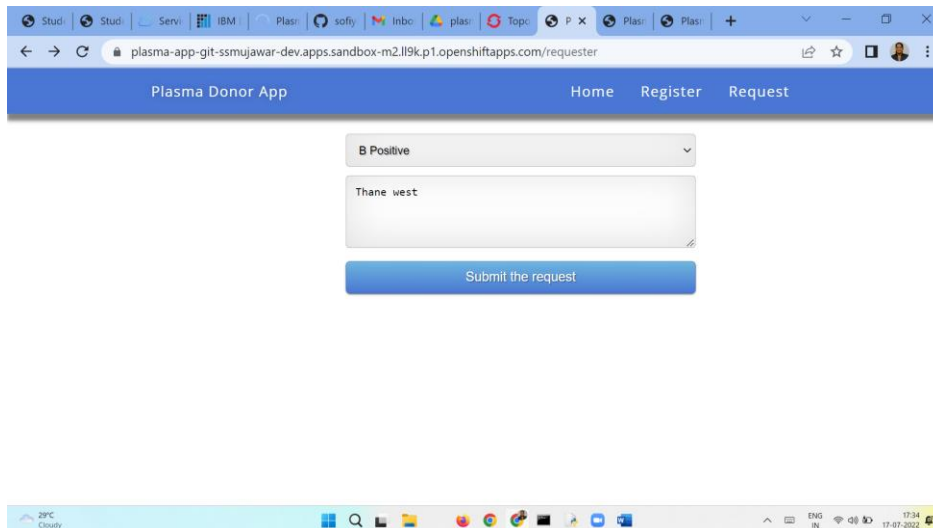
Login page:

The screenshot shows a web browser window with the URL `plasma-app-git-ssmujawar-dev.apps.sandbox-m2.1l9k.p1.openshiftapps.com/login`. The page has a blue header with "Plasma Donor App" on the left and "Home" and "Register" on the right. The main content area contains a login form with the following fields: "Enter UserName" and "Enter Password". Below these fields is a blue "Login" button. The Windows taskbar at the bottom shows the date as 17-07-2022 and the time as 17:32.

User login:



User requests on plasma:



Code:

```
app.py - D:\PlasmaDonorApplication-main\PlasmaDonorApplication-main\app.py (3.9.6)
File Edit Format Run Options Window Help
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import json
app = Flask(__name__)

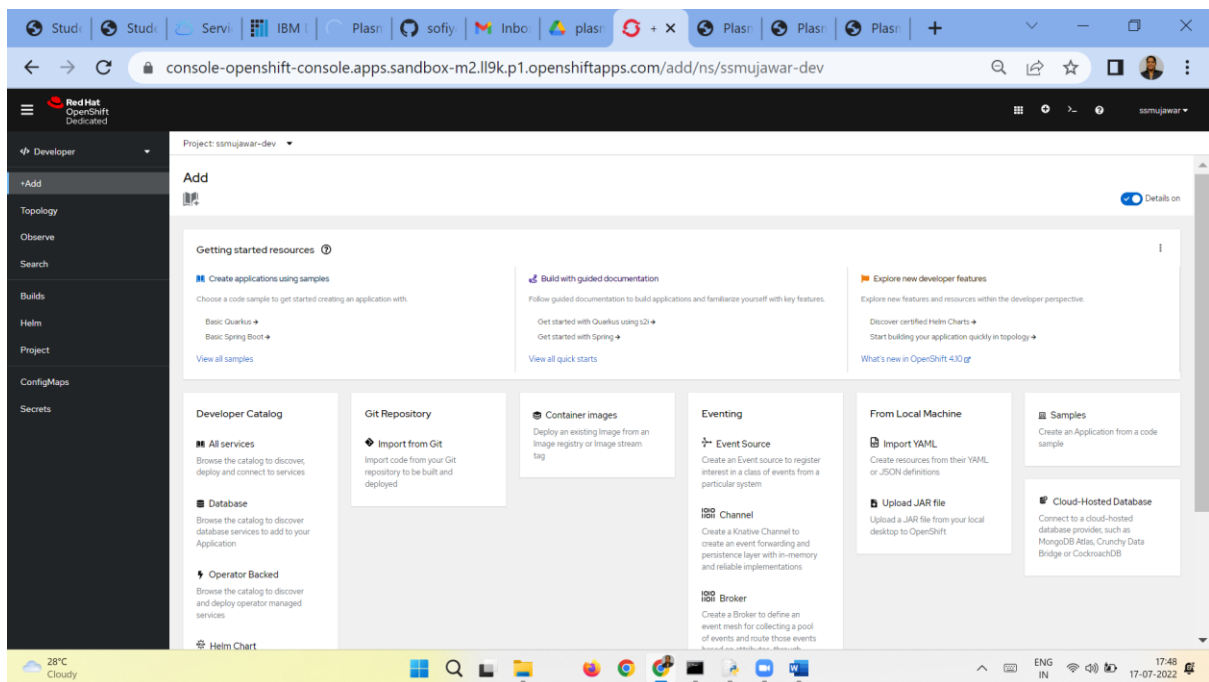
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=21fecfd8-47b7-4937-840d-d791d0218660.bs2ic90108kqblod81cg.databases.appdomain.cloud;PORT=3000")

@app.route('/')
def home():
    return render_template('register.html')

@app.route('/register', methods=['POST'])
def register():
    x = [x for x in request.form.values()]
    print(x)
    name=x[0]
    email=x[1]
    phone=x[2]
    city=x[3]
    infect=x[4]
    blood=x[5]
    password=x[6]
    sql = "SELECT * FROM user WHERE email =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt, 1, email)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
        return render_template('register.html', pred="You are already a member, please login using your details")
    else:
        insert_sql = "INSERT INTO user VALUES (?, ?, ?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prepare_stmt, 1, name)
        ibm_db.bind_param(prepare_stmt, 2, email)
        ibm_db.bind_param(prepare_stmt, 3, phone)
        ibm_db.bind_param(prepare_stmt, 4, city)
        ibm_db.bind_param(prepare_stmt, 5, infect)
        ibm_db.bind_param(prepare_stmt, 6, blood)
        ibm_db.bind_param(prepare_stmt, 7, password)
        ibm_db.execute(prepare_stmt)

Ln: 6 Col: 234
```

To add repository



Deployment status

The screenshot displays the Red Hat OpenShift console interface. The top navigation bar shows the project name 'ssmujuar-dev' and the application 'plasma-app-git'. The main area shows a topology diagram with several components: 'plasma-tionem', 'plasma-app-git', 'python-basic', 'sample-app', 'worksp_2f', and 'kernia'. The right-hand sidebar provides detailed information for the 'plasma-app-git' application.

plasma-app-git

- Health checks:** Container plasma-app-git does not have health checks to ensure your Application is running correctly. [Add health checks](#)
- Details | Resources | Observe**
- Pods:** plasma-app-git-d9cc4956d-4fbcn (Running) [View logs](#)
- Builds:** plasma-app-git (Start Build)
Build #1 was complete (1 hour ago) [View logs](#)
- Services:** plasma-app-git (Service port: 8080-tcp → Pod port: 8080)
- Routes:** plasma-app-git (Location: <https://plasma-app-git-ssmujuar-dev.apps.sandbox-...>)

The bottom status bar shows the system temperature as 28°C Cloudy and the time as 17:49 on 17-07-2022.