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Application name: Plasma Donor App

GitHub link: [https://github.com/manasi1512/PLASMA\\_APP.git](https://github.com/manasi1512/PLASMA_APP.git)

Demo Video Link: <https://drive.google.com/file/d/12Qw9FnC1GwxivwR25FvhfDNc4-uRQL2/view?usp=sharing>

Description:

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

For which user needs to register in the app.

User is 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. Imported python code to python idle
- b. Updated host name, port number, uid, password in the python code, made sure db name is similar
- c. Downloaded SSL digital certificate
- d. Created IBM cloud database
- e. Created table named user
- f. Created 7 columns with VARCHAR data type in table
- g. Executed code with python app.py
- h. Tested our code on localhost:8080/login

### 3.Uploaded source code on GitHub

- a. logged in to own GitHub account
- b. Created public repository and imported my code into that
- c. Taken link of our GitHub repository

### 4.Deploy the app on OpenShift red-hat dedicated

- a. Under the developer tab go to Add àImport from Gità Pasted GitHub linkàCreate
- b. Go to topology in which we can check the status of building the app
- c. One the build completed we can open the URL
- d. Our app is running successfully.

Screenshots:

Registration page:

Plasma Donor App Home

Manasi

mdchoche@apsit.edu.in

9890108724

Mumbai

Select COVID infection status

Choose your blood group

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Register

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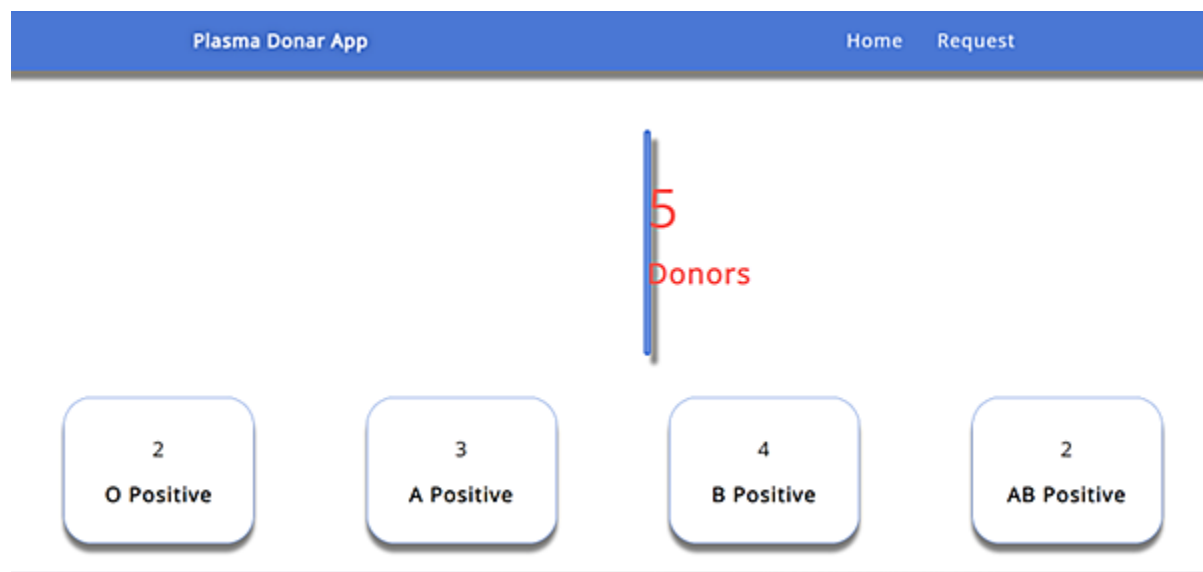
Login page:

Enter UserName

Enter Password

Login

User interface after login:



Code:

```
app.py - D:\PlasmaDonorApplication-main\PlasmaDonorApplication-main\app.py (3.10.5)
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=3883e7e4-18f5-4afe-be8c-fa31c41761d2.bs21o90108kqblod8lcg.databases.appdomain.cloud;PORT=31498;SECURITY=SSL;SS

@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)
```

## Deployment status

Browser tabs: (no subject) - mdch, Student Dashboard, Topology - Red Hat, https://plasma-app, IBM Db2 on Cloud, manasi1512/PLAS...

Address bar: console-openshift-console.apps.sandbox-m2.ll9k.p1.openshiftapps.com/topology/ns/mdchoche-dev?selectId=fad177a7-7a0e-4739-8f78-53709b790...

Navigation: Gmail, YouTube, Maps, DevOps - The Unto...

Red Hat OpenShift Dedicated

Developer

+Add

Topology

Observe

Search

Builds

Helm

Project

ConfigMaps

Project: mdchoche-dev Application: all applications View shortcuts

Display options Filter by resource Name Find by name... Export Application

Details Resources Observe

Pods

plasma-app-git-748c87c966-gxzcs Running View logs

Builds

plasma-app-git Start Build

Build #2 was complete (35 minutes ago) View logs

Build #1 was complete (5 days ago) View logs

31°C Haze 17:53 31-07-2022