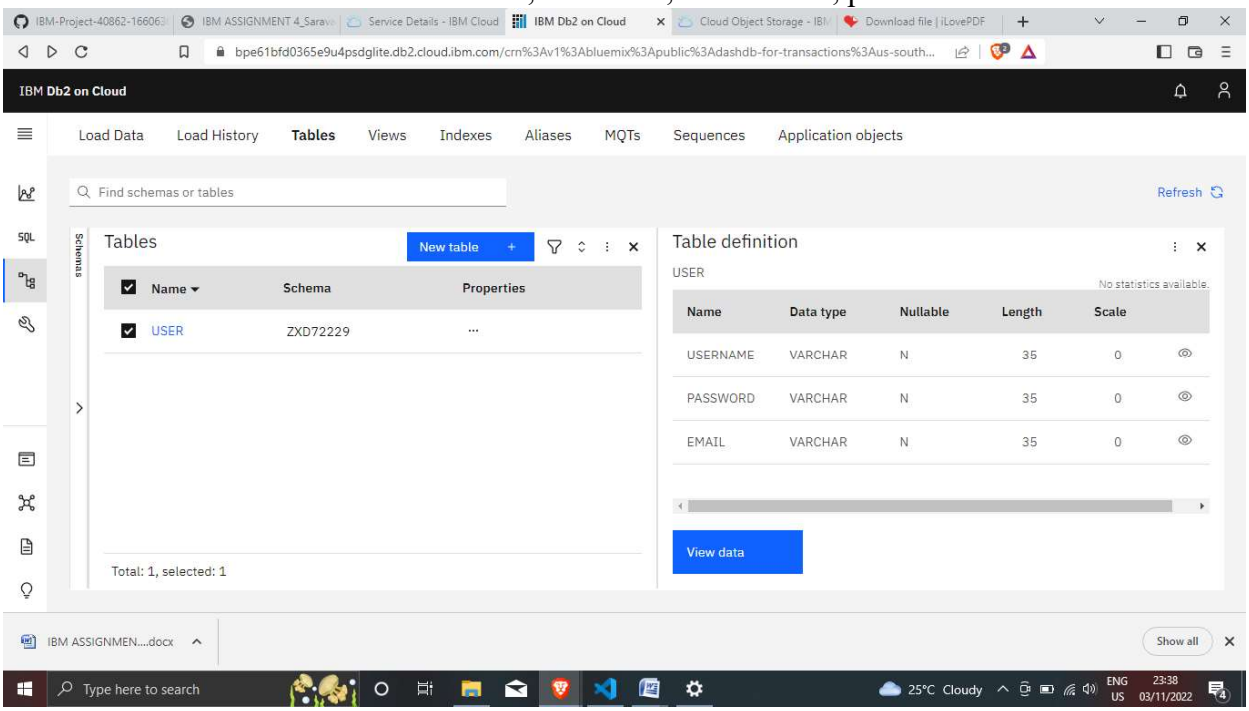
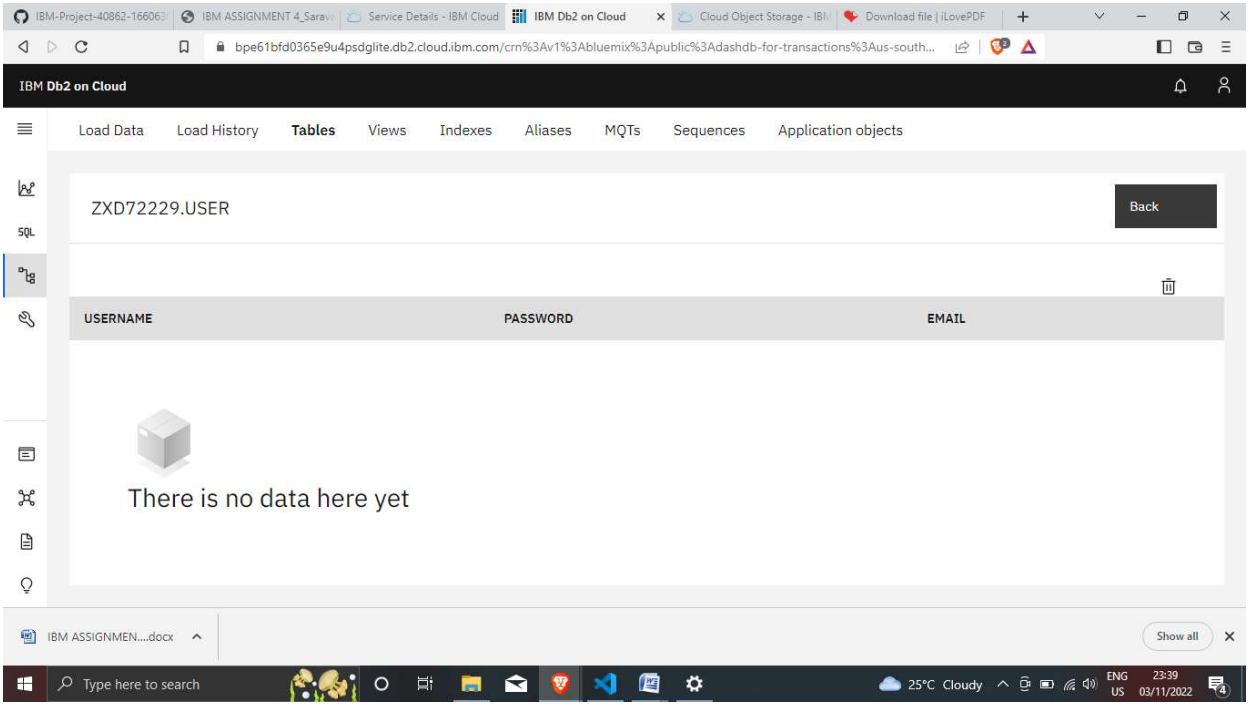
Team ID	PNT2022PMID49597
Project Name	Project – PLASMA DONOR APPLICATION
Name	Suswin. P
Roll Number	950019104049

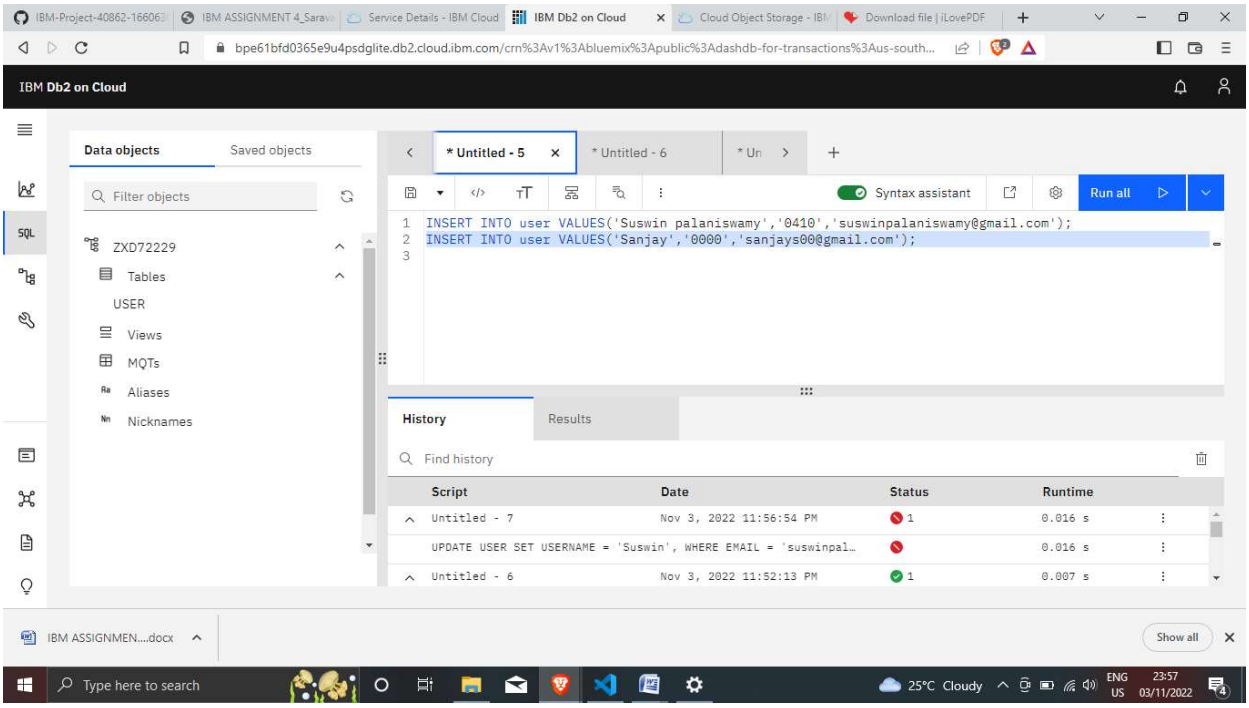
Assignment-3

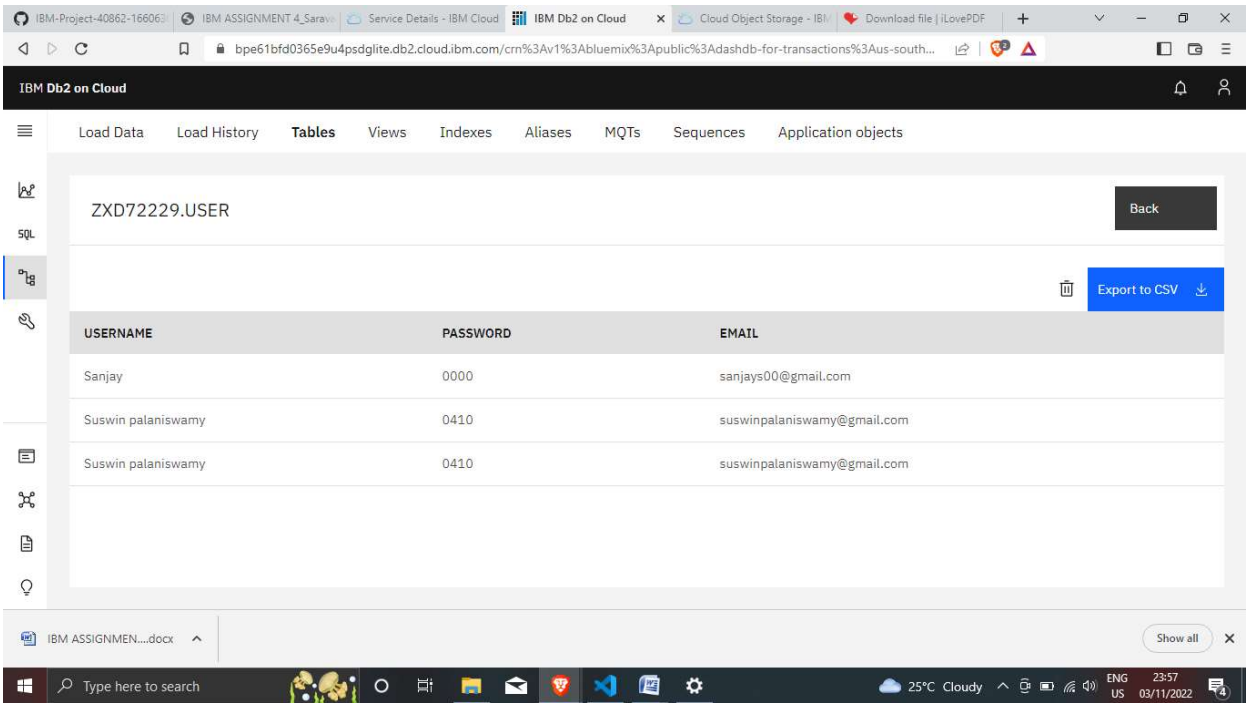
1. Create user table with user with email, username, roll number, password.

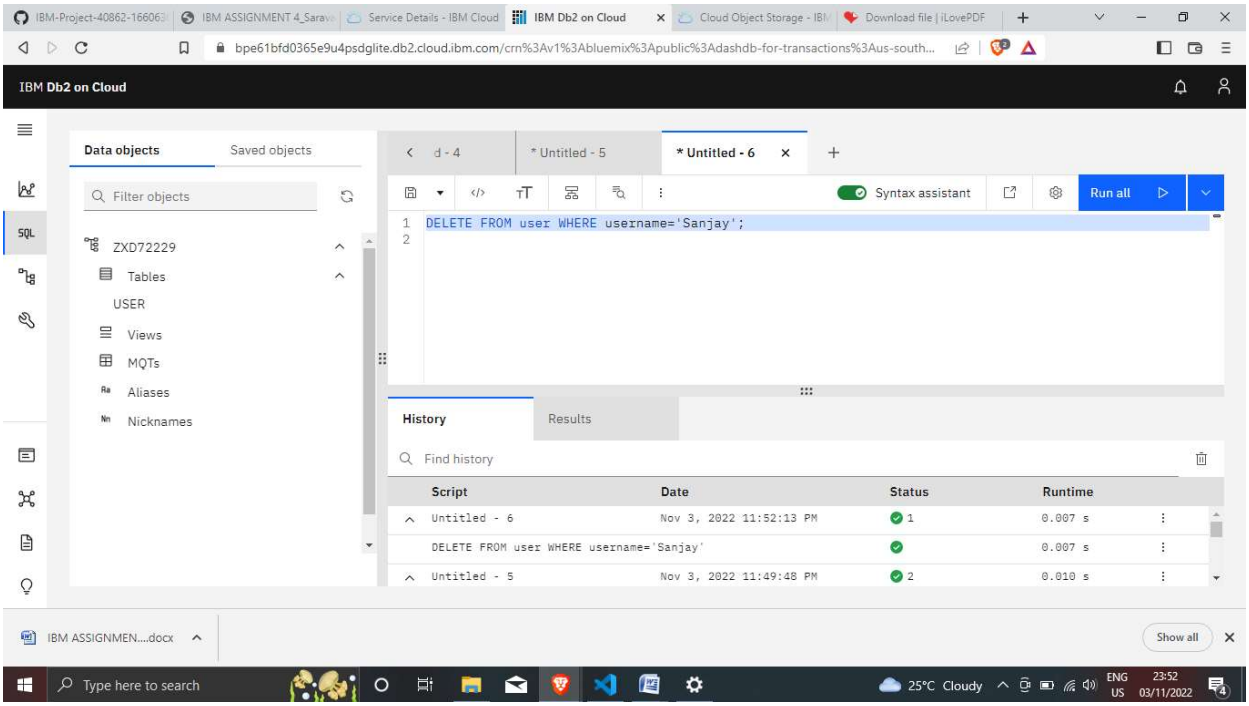


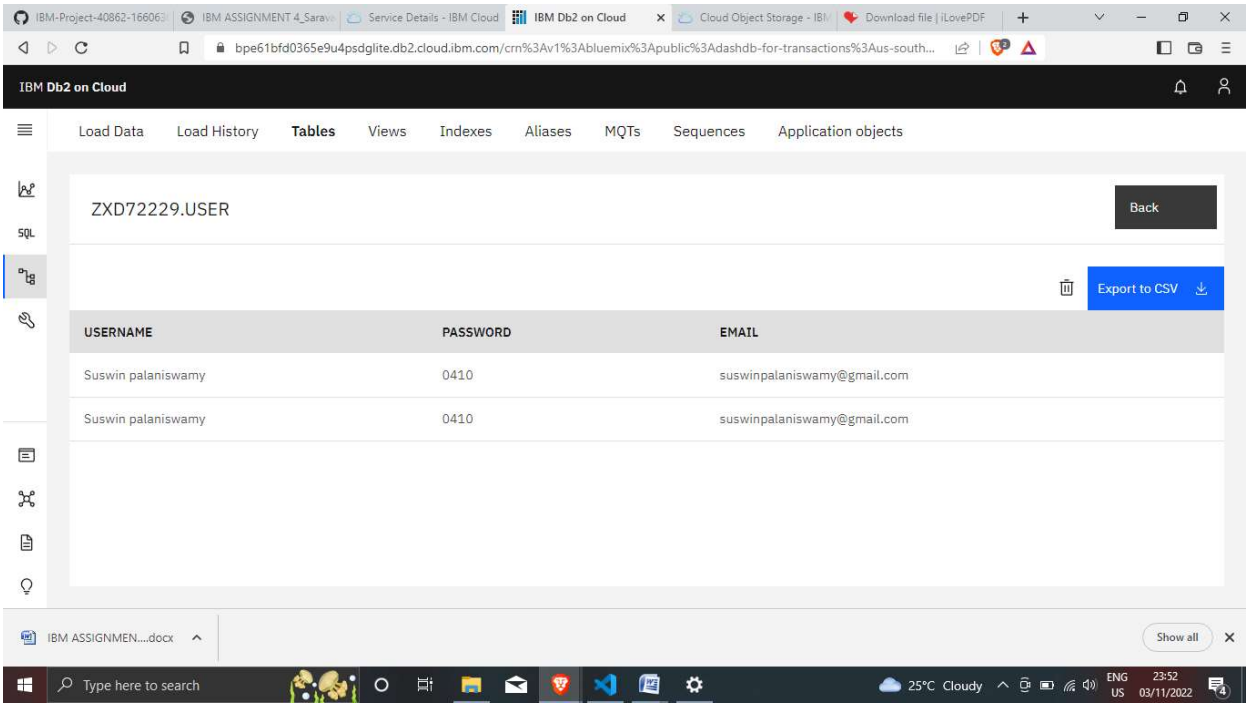


2. Perform UPDATE, DELETE Queries with user table.






IBM Db2 on Cloud
Data objects
Saved objects
Filter objects
ZXD72229
Tables
USER
Views
MQTs
Aliases
Nicknames
* Untitled - 6
Syntax assistant
Run all
DELETE FROM user WHERE username='Sanjay';
History
Results
Find history
Script
Date
Status
Runtime
Untitled - 6
Nov 3, 2022 11:52:13 PM
0.007 s
DELETE FROM user WHERE username='Sanjay'
0.007 s
Untitled - 5
Nov 3, 2022 11:49:48 PM
0.010 s


IBM Db2 on Cloud
Load Data
Load History
Tables
Views
Indexes
Aliases
MQTs
Sequences
Application objects
ZXD72229.USER
Back
Export to CSV
USERNAME
PASSWORD
EMAIL
Suswin palaniswamy
0410
suswinpalaniswamy@gmail.com
Suswin palaniswamy
0410
suswinpalaniswamy@gmail.com

3.Connect python code to db2.

App.py

```
from flask import Flask, render_template ,request,redirect,session,url_for
import ibm_db
import re
app = Flask(__name__)

conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;;SSLServer
Certificate=DigiCertGlobalRootCA.crt;UID=zxd72229;PWD=XEdSEnZ2jpYUndqg",'','')

if __name__=='main_':
    app.run(debug=True)
```

4. Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

App.py

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re

app =Flask(__name__)

app.secret_key='a'

conn =ibm_db.connect("DATABASE=bludb;HOSTNAME=b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;USERNAME=zxd72229;PASSW
ORD=XEdSEnZ2jpYUndqg;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCertGlobalRootCA.crt;","","")

@app.route("/",methods=['GET', 'POST'])
def register():
    msg=''
    if request.method=='POST':
        username =request.form['username']
        password =request.form['password']
        email =request.form['email']
        sql="SELECT * FROM user WHERE username =?"
        stmt= ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1, username)
        ibm_db.execute(stmt)
        account =ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg='Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg='Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', username):
            msg='name must contain only characters and numbers !'
        else:
            insert_sql="INSERT INTO  user VALUES (?, ?, ?)"
            prep_stmt=ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(prep_stmt,1, username)
            ibm_db.bind_param(prep_stmt,2, password)
```

```
            ibm_db.bind_param(prep_stmt,3, email)
            ibm_db.execute(prep_stmt)
            msg='You have successfully registered !'
    elif request.method=='POST':
        msg='Please fill out the form !'
    return render_template('reg.html',msg=msg)

@app.route('/login',methods=['GET', 'POST'])
def login():
    global userid
    msg=''

    if request.method=='POST':
        username =request.form['username']
        password =request.form['password']
        sql="SELECT * FROM user 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)
        account =ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            session['loggedin'] =True
            session['id'] = account['USERNAME']
            userid= account['USERNAME']
            session['username'] = account['USERNAME']
            msg='Logged in successfully !'

            msg='Logged in successfully !'
            return render_template('wel.html',msg=msg)
        else:
            msg='Incorrect username / password !'
    return render_template('login.html',msg=msg)

if __name__ =='__main__':
    app.run(host='0.0.0.0')
    app.run(debug=True)
```

Reg.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Plasma Donor Register</title>

    <!-- bootstrap csscdn-->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
        integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!--css stylesheet -->
    <link rel="stylesheet" href="/static/css/style.css">
    <!-- font styles cdn-->
    <link rel="preconnect" href="https://fonts.gstatic.com">
```

```
    <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
    <!-- bootstrap navbar-->
    <!--navbar ends -->
    <!-- Login form -->
    <div class="login text-center mt-5">

        <form action="/" method="post">
            <h2 class="form-text-h2"> Register Form </h2>
            <div class="msg">{{ msg }}</div>
            <input type="text" class="form-control" name="username" placeholder="Enter Your
Username" id="username"
                required>
            <input type="password" class="form-control" name="password" placeholder="Enter
Your Password" id="password"
                required>
            <input type="email" class="form-control" name="email" placeholder="Enter Your
Email ID" id="email" required>
            <button type="submit" id="button" class="btnbtn-primary"> Register </button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                <p> already have an account ? please <a href="/login">login! </a></p>

            </div>
        </form>

    </div>

</body>

</html>
```

Login.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Plasma Donor Login</title>
    <!-- favicon -->
    <!--<link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/x-icon">-->
    <!--<link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">-->
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-32x32.png">
    <!-- bootstrap csscdn-->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
        integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!--css stylesheet -->
    <link rel="stylesheet" href="/static/css/style2.css">
```

```
    <!-- font styles cdn-->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>

    <div class="login text-center mt-5">

        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-control" placeholder="Username" name="username"
required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password" class="form-control" placeholder="Password"
name="password" required>
            </div>

            <button type="submit" id="button" class="btnbtn-primary"> Login </button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                <p> Don't have an account yet? Click here to <a href="/">register! </a></p>
            </div>
        </form>
    </div>

</body>

</html>
```

Wel.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Plasma Donor Register</title>

    <!-- bootstrap csscdn-->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
        integrity="sha384-JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z"
crossorigin="anonymous">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
    <!--css stylesheet -->
    <link rel="stylesheet" href="/static/css/style.css">
    <!-- font styles cdn-->
    <link rel="preconnect" href="https://fonts.gstatic.com">
```

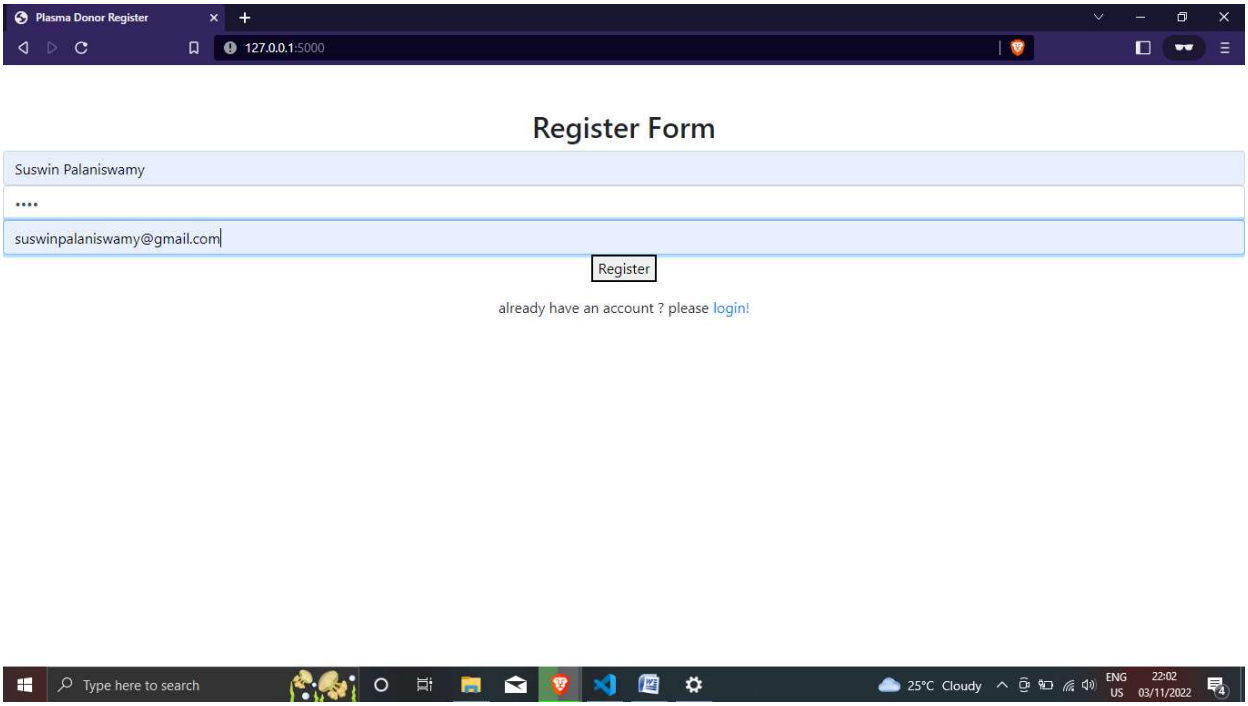
```
    <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
    <!-- bootstrap navbar-->
    <!--navbar ends -->
    <!-- Home page -->
    <div class="login text-center mt-5">

        <p> Welcome to our Home Page!</p>
        <p> We are happy to have more donors who are willing to save lives with their
blood.</p>
        <p> We are also happy to be able help our recipients find donors easily through our
site.</p>

    </div>

</body>

</html>
```

Style.css

```
* {
    margin: 0;
    padding: 0;
}

body {
    background-color: rgb(25, 184, 233)!important;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
}

form {
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
    background-color: rgb(163, 238, 42);
    width: 40%;
    height: 450px;
    border-radius: 50px;
    margin: 100px;
    gap: 25px;

}

h2 {
    font-size: large;
    font-weight: bolder;
}

input {
    width: 80%!important;
}

div {
```

```
    display: flex;
    align-items: center;
    justify-content: center;
    flex-direction: column;
    width: 90%;
}

.form-text-vk {
    font-size: small;
    padding-bottom: 10px;
}

.form-text-h2 {
    font-size: x-large;
    padding-top: 10px;
}
```

Output:



Register Form

You have successfully registered !

Enter Your Username

Enter Your Password

Enter Your Email ID

Register

already have an account ? please login!

Login Form

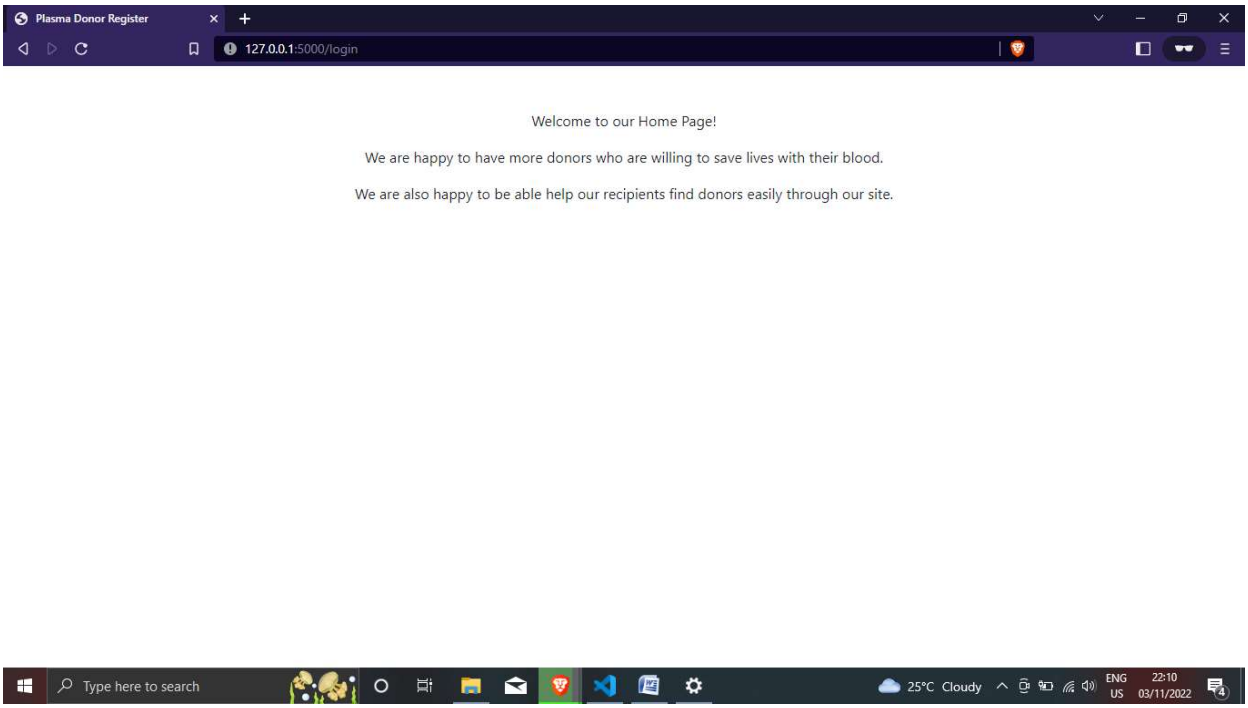
Username

Suswin Palaniswamy

Password

Login

Don't have an account yet? Click here to register!


Plasma Donor Register
127.0.0.1:5000/login
Welcome to our Home Page!
We are happy to have more donors who are willing to save lives with their blood.
We are also happy to be able help our recipients find donors easily through our site.
Type here to search
25°C Cloudy
ENG
US
22:10
03/11/2022