

Aim: As a user, I can log into the application by entering email & password

```
from distutils.log import debug
from sendgridmail import sendmail
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
import os
from dotenv import load_dotenv

load_dotenv()

app = Flask(__name__)

app.secret_key = 'a'

conn=ibm_db.connect(os.getenv('DB_KEY'),"", "")

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

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

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

```

username = request.form['username']
password = request.form['password']
sql = "SELECT * FROM donors 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 !'
    sendmail(account['EMAIL'],'Plasma donor App login','You are successfully logged in!')
    return redirect(url_for('dash'))
else:
    msg = 'Incorrect username / password !'
return render_template('login.html', msg = msg)

```

```
@app.route('/registration')
```

```
def home():
```

```
    return render_template('register.html')
```

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

```
def register():
```

```
    msg = "
```

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

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

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

```

password = request.form['password']
phone = request.form['phone']
city = request.form['city']
infect = request.form['infect']
blood = request.form['blood']
sql = "SELECT * FROM donors 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 donors 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, password)
    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, phone)

    ibm_db.execute(prepare_stmt)
    msg = 'You have successfully registered !'

```

```
        sendmail(email,'Plasma donor App Registration','You are successfully Registered  
{!}'.format(username))
```

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

```
    msg = 'Please fill out the form !'
```

```
    return render_template('register.html', msg = msg)
```

```
@app.route('/dashboard')
```

```
def dash():
```

```
    if session['loggedin'] == True:
```

```
        sql = "SELECT COUNT(*), (SELECT COUNT(*) FROM DONORS WHERE blood= 'O Positive'), (SELECT  
COUNT(*) FROM DONORS WHERE blood='A Positive'), (SELECT COUNT(*) FROM DONORS WHERE  
blood='B Positive'), (SELECT COUNT(*) FROM DONORS WHERE blood='AB Positive'), (SELECT  
COUNT(*) FROM DONORS WHERE blood='O Negative'), (SELECT COUNT(*) FROM DONORS WHERE  
blood='A Negative'), (SELECT COUNT(*) FROM DONORS WHERE blood='B Negative'), (SELECT  
COUNT(*) FROM DONORS WHERE blood='AB Negative') FROM donors"
```

```
        stmt = ibm_db.prepare(conn, sql)
```

```
        ibm_db.execute(stmt)
```

```
        account = ibm_db.fetch_assoc(stmt)
```

```
        print(account)
```

```
        return render_template('dashboard.html',b=account)
```

```
    else:
```

```
        msg = 'Please login!'
```

```
        return render_template('login.html', msg = msg)
```

```
@app.route('/requester')
```

```
def requester():
```

```
    if session['loggedin'] == True:
```

```
        return render_template('request.html')
```

```
    else:
```

```
        msg = 'Please login!'
```

```
        return render_template('login.html', msg = msg)
```

```

@app.route('/requested',methods=['POST'])
def requested():
    bloodgrp = request.form['bloodgrp']
    address = request.form['address']
    name= request.form['name']
    email= request.form['email']
    phone= request.form['phone']
    insert_sql = "INSERT INTO requested VALUES (?, ?, ?, ?, ?)"
    prep_stmt = ibm_db.prepare(conn, insert_sql)
    ibm_db.bind_param(prepare_stmt, 1, bloodgrp)
    ibm_db.bind_param(prepare_stmt, 2, address)
    ibm_db.bind_param(prepare_stmt, 3, name)
    ibm_db.bind_param(prepare_stmt, 4, email)
    ibm_db.bind_param(prepare_stmt, 5, phone)
    ibm_db.execute(prepare_stmt)
    sendmail(email,'Plasma donor App plasma request','Your request for plasma is recieved.')
    return render_template('request.html', pred="Your request is sent to the concerned people.")

```

```

@app.route('/logout')

```

```

def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return render_template('login.html')

```

```

if __name__ == '__main__':
    app.run(host='0.0.0.0',debug='TRUE')

```