

Team ID	PNT2022PMID49597
Project Name	Project – PLASMA DONOR APPLICATION
Name	SARAVANAN S
Roll Number	950019104041

## Assignment-3

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

```

Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.30 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database
-> cs;
Query OK, 1 row affected (0.03 sec)

mysql> use cs;
Database changed
mysql> create table user(email varchar(30), username varchar(15), rollnumber int(10), password int(10));
Query OK, 0 rows affected, 2 warnings (0.06 sec)

mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| email | varchar(30) | YES | | NULL | |
| username | varchar(15) | YES | | NULL | |
| rollnumber | int | YES | | NULL | |
| password | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.04 sec)

mysql>

```

2. Perform UPDATE, DELETE Queries with user table.

```

MySQL 8.0 Command Line Client
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database
-> cs;
Query OK, 1 row affected (0.03 sec)

mysql> use cs;
Database changed
mysql> create table user(email varchar(30), username varchar(15), rollnumber int(10), password int(10));
Query OK, 0 rows affected, 2 warnings (0.06 sec)

mysql> desc user;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| email | varchar(30) | YES | | NULL | |
| username | varchar(15) | YES | | NULL | |
| rollnumber | int | YES | | NULL | |
| password | int | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.04 sec)

mysql> insert into user values('sarav@gmail.com', 'sarav', 41, 01);
Query OK, 1 row affected (0.04 sec)

mysql> insert into user values('sindhu@gmail.com', 'sindhu', 43, 03);
Query OK, 1 row affected (0.02 sec)

mysql> select * from user;
+-----+-----+-----+-----+
| email | username | rollnumber | password |
+-----+-----+-----+-----+
| sarav@gmail.com | sarav | 41 | 1 |
| sindhu@gmail.com | sindhu | 43 | 3 |
+-----+-----+-----+-----+
2 rows in set (0.02 sec)

mysql>

```

3. Connect python code to db2.

**App.py**

```
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-d6a8c9f7a08f.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=dxg36717;PWD=miSxjpV7Ybwrrlyf","")
```

**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, session, url_for
import ibm_db
import re
app = Flask(__name__)
app.secret_key='a'
conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=ba99a9e6-d59e-4883-8fc0-
d6a8c9f7a08f.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=31321;SECURITY=
SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=dxg36717;PWD=miSxjpV7Ybwnr
lyf",',,')
@app.route('/')
@app.route('/login', methods=['GET', 'POST'])
def login():
    global userid
    msg = ''
    if request.method == 'POST' and 'name' in request.form and 'password' in
request.form:
        name = request.form['name']
        password = request.form['password']
        stmt = ibm_db.prepare(conn,'SELECT * FROM users WHERE name = ? AND
password = ?')
        ibm_db.bind_param(stmt,1,name)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if account:
            session['loggedin'] = True
            session['name'] = account['NAME']
            msg = 'Logged in successfully !'
            return render_template('home.html', msg = msg)
        else:
            msg = 'Incorrect name / password !'
            return render_template('login.html', msg = msg)
@app.route('/logout')
def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('name', None)
    return redirect(url_for('login'))
@app.route('/register', methods=['GET', 'POST'])
def register():
    msg = ''
    if request.method == 'POST' and 'name' in request.form and 'password' in
request.form and 'email' in request.form :
        name = request.form['name']
        password = request.form['password']
```

```

        email = request.form['email']
        stmt = ibm_db.prepare(conn, 'SELECT * FROM users WHERE name
= ?')
        ibm_db.bind_param(stmt, 1, name)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        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]+', name):
                msg = 'name must contain only characters and numbers !'
            elif not name or not password or not email:
                msg = 'Please fill out the form !'
            else:
                prep_stmt = ibm_db.prepare(conn, "INSERT INTO users
VALUES(?, ?, ?)")
                ibm_db.bind_param(prepare_stmt, 1, name)
                ibm_db.bind_param(prepare_stmt, 2, password)
                ibm_db.bind_param(prepare_stmt, 3, email)
                ibm_db.execute(prepare_stmt)
                msg = 'You have successfully registered !'
            elif request.method == 'POST':
                msg = 'Please fill out the form !'
            return render_template('register.html', msg = msg)
if __name__ == '__main__':
    app.run(debug = True)

```

## Login.html

```

<html>
<head>
    <meta charset="UTF-8">
    <title> Login </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>
<body><br><br><br><br><br>
    <div align="center">
        <div align="center" class="border">
            <div class="header">
                <h1 class="word">Login</h1>
            </div><br><br><br>
            <h2 class="word">
                <form action="{{ url_for('login') }}" method="post">
                    <div class="msg">{{ msg }}</div>
                    <input id="name" name="name" type="text" placeholder="Enter
Your Username"
                        class="textbox" /><br><br>
                    <input id="password" name="password" type="password"
placeholder="Enter Your Password"
                        class="textbox" /><br><br><br>
                    <input type="submit" class="btn" value="SignIn"><br><br>

```

```

        </form>
    </h2>
    <p class="bottom">Don't have an account? <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a>
    </p>
</div>
</div>
</body>
</html>

```

## Register.html

```

<html>

<head>
    <meta charset="UTF-8">
    <title> Register </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>

<body><br></br></br></br></br>
    <div align="center">
        <div align="center" class="border">
            <div class="header">
                <h1 class="word">Register</h1>
            </div><br></br></br>
            <h2 class="word">
                <form action="{{ url_for('register') }}" method="post">
                    <div class="msg">{{ msg }}</div>
                    <input id="name" name="name" type="text" placeholder="Enter
Your Username"
                        class="textbox" /></br></br>
                    <input id="password" name="password" type="password"
placeholder="Enter Your Password"
                        class="textbox" /></br></br>
                    <input id="email" name="email" type="text"
placeholder="Enter Your Email ID"
                        class="textbox" /></br></br>
                    <input type="submit" class="btn" value="SignUp"></br>
                </form>
            </h2>
            <p class="bottom">Already have an account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a>
            </p>
        </div>
    </div>
</body>

</html>

```

## Home.html

```
<html>

<head>
  <meta charset="UTF-8">
  <title> WELCOME PAGE </title>
  <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>

<body></br></br></br></br></br>
  <div align="center">
    <div align="center" class="border">
      <div class="header">
        <h1 class="word">WELCOME PAGE </h1>
      </div></br></br></br></br>
      <h1 class="bottom">
        Hi {{session.name}}!!</br></br> Welcome to Ourpage...
      </h1></br></br></br></br>
      <a href="{{ url_for('logout') }}" class="btn">Logout</a>
    </div>
  </div>
</body>

</html>
```

Output:

## Login.html

**Login**

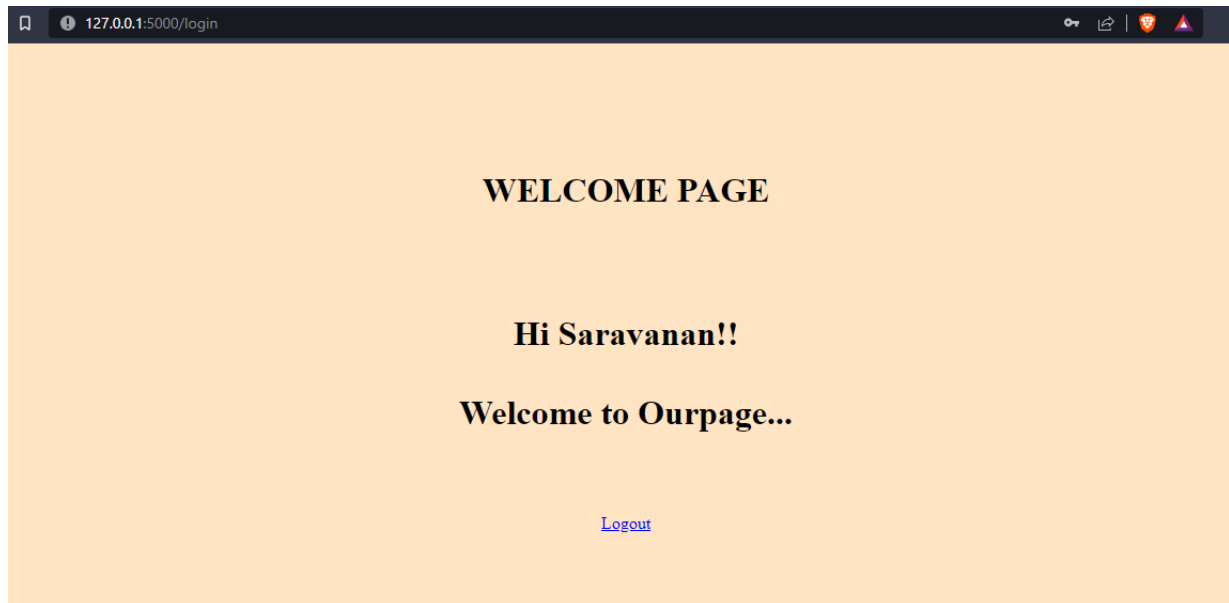
Don't have an account? [Sign Up here](#)

## Register.html

**Register**

Already have an account? [Sign In here](#)

## Home.html



## Ibm Database view

A screenshot of the IBM Db2 Cloud interface. The top navigation bar includes "Load Data", "Load History", "Tables", "Views", "Indexes", "Aliases", "MQTs", "Sequences", and "Application objects". The "Tables" tab is selected. The main content area shows a table named "DXG36717.USERS". The table has three columns: "NAME", "PASSWORD", and "EMAIL". There are two rows of data. A "Back" button is in the top right corner, and an "Export to CSV" button is in the bottom right corner.

NAME	PASSWORD	EMAIL
Saravanan	111	sarav@gmail.com
sindhu	123	sara@gmail.com