

Assignment -2

Assignment Date	19 September 2022
Student Name	Nanthakumaran S
Student Roll Number	737819ECR113
Maximum Marks	2 Marks

Question-1:

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

```
CREATE TABLE User (  
    email varchar(255),  
    username varchar(255),  
    roll_no varchar(255),  
    password varchar(255)  
);
```

Question-2:

Perform UPDATE,DELETE Queries with user table

```
UPDATE User  
  
SET username = 'nanthakumaran'  
  
WHERE email = 'nanthankumaransenthil@gmail.com';  
  
DELETE FROM User WHERE username='nanthakumaran';
```

Question-3:

Connect python code to db2.

```
db_connectionibm_db.connect("DATABASE=bludb;QUERYTIMEOUT=1;CONNECTTIMEOUT=10;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kqb1od8lcg.databases.apdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertificate=./DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=gpf02299;PWD=yLEwXmSNoNCAhWGp", "", "")
```

Question-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

from flask import request, redirect, url_for, render_template

import ibm_db

app = Flask(__name__)

app.config['DEBUG'] = True

db_connection = ibm_db.connect(

    "DATABASE=bludb;QUERYTIMEOUT=1;CONNECTTIMEOUT=10;HOSTNAME=0c77d6f2-5da9-48a9-81f8-86b520b87518.bs2io90l08kqb1od8lcg.databases.apdomain.cloud;PORT=31198;SECURITY=SSL;SSLServerCertificate=./DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=gpf02299;PWD=yLEwXmSNoNCAhWGp", "", "")

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

```

def register():

    if request.method == 'POST':

        data = request.form.to_dict()

        print(data)

        sql_query = f"INSERT INTO User (username, email, roll_no, password)
VALUES('{data['username']}','{data['email']}','{data['roll_no']}','{data['password']}')"

        ibm_db.exec_immediate(db_connection, sql_query)

        return redirect(url_for("login"))

    if request.method == "GET":

        return render_template("registration.html")

@app.route("/login", methods=["GET", "POST"])

def login():

    if request.method == 'POST':

        data = request.form.to_dict()

        sql_query = f"SELECT password from User WHERE username = '{data['username']}'"

        result = ibm_db.exec_immediate(db_connection, sql_query)

        value = ibm_db.fetch_tuple(result)

        if value[0] == data["password"]:

            return redirect(url_for("welcome"))

        else:

            return "<p style=color:red;>Invalid Credentials</p>"

    if request.method == "GET":

```

```

        return render_template("login.html")

@app.route("/welcome", methods=["GET"])
def welcome():
    return "<h1 style=color:green;>Welcome!!!!</h1>"

if __name__ == '__main__':
    app.run()

```

templates/registration.html

```

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <meta http-equiv="X-UA-Compatible" content="ie=edge">

    <title>Registration Form</title>

    <link rel="stylesheet" href="{{ url_for('static',
filename='registration.css') }}">

</head>

<body>

```

```
<form method="POST" action="{{url_for('register')}}">

    <div class="container">

        <br />

        <input name="username" placeholder="Username" type="text" />

        <br />

        <input name="email" placeholder="contact@example.com" type="email" />

        <br />

        <input name="roll_no" placeholder="Roll number" type="text" />

        <br />

        <input name="password" placeholder="Password" type="password" />

        <br />

        <button type="submit">Register</button>

    </div>

</form>

</body>

</html>
```

templates/login.html

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">
```

```

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<meta http-equiv="X-UA-Compatible" content="ie=edge">

<title>Registration Form</title>

        <link rel="stylesheet" href="{{ url_for('static',
filename='registration.css') }}">
</head>

<body>

    <form method="POST" action="{{url_for('login')}}">

        <div class="container">

            <input name="username" placeholder="Username" type="text" />

            <br />

            <input name="password" placeholder="Password" type="password" />

            <br />

            <button type="submit">Login</button>

        </div>

    </form>

</body>

</html>

```

static/registration.css

```

@import
url('https://fonts.googleapis.com/css?family=Montserrat:400,500&display=swap')
;

```

```
body {  
  
  font-family: Montserrat,Arial, Helvetica, sans-serif;  
  
  background-color:#f7f7f7;  
  
}  
  
* {box-sizing: border-box}  
  
.container {  
  
  padding: 20px;  
  
  width:500px;  
  
  position: absolute;  
  
  left: 50%;  
  
  top: 50%;  
  
  transform: translate(-50%, -50%);  
  
  border:1px solid #ccc;  
  
  border-radius:10px;  
  
  background:white;  
  
  -webkit-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);  
  -moz-box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);  
  box-shadow: 2px 1px 21px -9px rgba(0,0,0,0.38);  
  
}  
  
input[type=text], input[type=email], input[type=password] {  
  
  width: 100%;  
  
  padding: 15px;  
  
  margin: 5px 0 22px 0;
```

```
display: inline-block;

border: none;

background: #f7f7f7;

font-family: Montserrat,Arial, Helvetica, sans-serif;
}

input[type=text]:focus,  input[type=password]:focus,  input[type=phone]:focus,
select:focus {

    background-color: #ddd;

    outline: none;
}

button {

    background-color: #0eb7f4;

    color: white;

    padding: 14px 20px;

    margin: 8px 0;

    border: none;

    cursor: pointer;

    width: 100%;

    opacity: 0.9;

    font-size:16px;

    font-family: Montserrat,Arial, Helvetica, sans-serif;

    border-radius:10px;
```



```
}

button:hover {

  opacity:1;

}


@media screen and (max-width: 300px) {

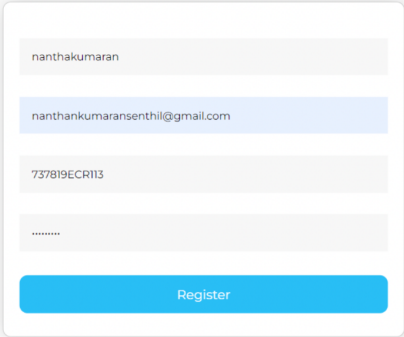
  .signupbtn {

    width: 100%;

  }

}
```

Output



A registration form is displayed on a light gray background. The form is a white rounded rectangle with a subtle drop shadow. It contains four input fields stacked vertically. The first field has the text 'nanthakumaran'. The second field has the email 'nanthakumaranseenthil@gmail.com'. The third field has the phone number '737819ECR113'. The fourth field is a password field with masked characters '*****'. Below the input fields is a blue button with the text 'Register'.

