

### Assignment -1

Assignment Date	19 September 2022
Student Name	Naveen p
Student Roll Number	737819ECR115
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_num varchar(255),  
                    password varchar(255)  
                    );
```

#### Question-2:

**2. Perform UPDATE,DELETE Queries with user table**

```
UPDATE user  
SET username='Naveen'  
WHERE email='naveennaveen9221@gmail.com';  
DELETE from user where username ='naveen';
```

#### Question-3:

**3. Connect python code to db2.**

```
db_connection=ibm_db.connect("DATABASE=bludb;QUERYTIMEOUT=1;CONNECTTIMEOUT=10;HOST  
NAME=764264db-9824-4b7c-82df-40d1b13897c2.bs2io90l08kqb1od8lcg.databases.appdomain.clou  
d;PORT=32536;SECURITY=SSL;SSLServerCertificate=./DigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID  
=zmn60939;PWD=YjtYgCpA1y4T7AZQ", "", "")
```

#### Question-4:

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.appdomain.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@riyazurrazak.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>
```

## 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>
```

## 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;
}

```

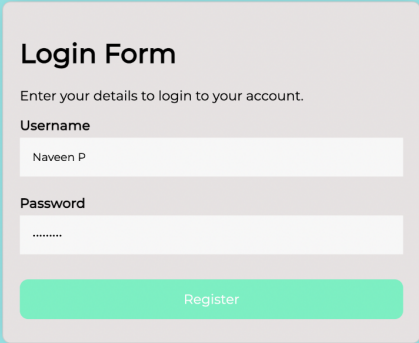
```
button:hover {
    opacity:1;
}

```

```
@media screen and (max-width: 300px) {
    .signupbtn {
        width: 100% }}

```

## Output



The image shows a login form centered on a light blue background. The form is a light gray rounded rectangle with a shadow. It has a title 'Login Form' in bold black text. Below the title is a subtitle 'Enter your details to login to your account.' in a smaller font. There are two input fields: 'Username' with the text 'Naveen P' and 'Password' with masked characters '.....'. At the bottom is a green button with the text 'Register'.

**Login Form**

Enter your details to login to your account.

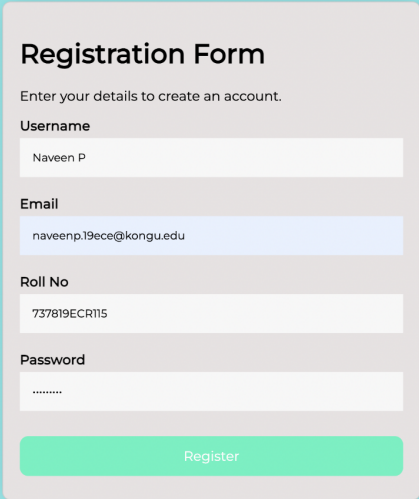
**Username**

Naveen P

**Password**

.....

Register



The image shows a registration form centered on a light blue background. The form is a light gray rounded rectangle with a shadow. It has a title 'Registration Form' in bold black text. Below the title is a subtitle 'Enter your details to create an account.' in a smaller font. There are four input fields: 'Username' with the text 'Naveen P', 'Email' with the text 'naveenp.19ece@kongu.edu', 'Roll No' with the text '737819ECR115', and 'Password' with masked characters '.....'. At the bottom is a green button with the text 'Register'.

**Registration Form**

Enter your details to create an account.

**Username**

Naveen P

**Email**

naveenp.19ece@kongu.edu

**Roll No**

737819ECR115

**Password**

.....

Register