

## Assignment 2

### Create table and perform queries by connecting to database

Date	22th September 2022
Student Name	Harsini S.R.
Student Roll Number	111519205011
Maximum Marks	2 Marks

### Question:

1. Create user table with user with email, username, roll number, password.
2. Perform UPDATE, DELETE Queries with user table
3. Connect python code to db2
4. Create flask app with registration page, login page and welcome page.  
By default load the registration page once the user enters all the field store the data in the database and navigate to login page authenticate user username and password. If the user is valid show the welcome page.

### Solution:

#### App.py

```
from flask import Flask,render_template,request,redirect,url_for
import sqlite3

app = Flask(__name__)

@app.route('/',methods=["GET","POST"])
def index():
    if(request.method=="POST"):
        rollno = request.form.get("rollno",'')
        email = request.form.get("email")
        username= request.form.get("username",'')
        password= request.form.get("password",'')

        with sqlite3.connect("users.db") as con:
            cur=con.cursor()
```

```

        cur.execute("INSERT INTO users (roll_number,email,username,password)
VALUES (?,?,,?)",(rollno,email,username,password))
        con.commit()
        return redirect(url_for('login'))
        return render_template('signup.html')

@app.route('/login',methods=["GET","POST"])
def login():
    if(request.method=="POST"):
        username= request.form.get("username",'')
        password= request.form.get("password",'')

        with sqlite3.connect("users.db") as con:
            cur=con.cursor()
            cur.execute("select * from users where username=(?) and password
=(?)",(username,password))
            result= cur.fetchone()
            con.commit()
            if result==None:
                return render_template("login.html",msg="Invalid username or
password, try again!")
            else:
                return render_template("home.html")
        return render_template('login.html')

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

```

## db.py

```

import sqlite3

conn = sqlite3.connect('users.db')
print("Opened database successfully")

conn.execute('''CREATE TABLE users (email varchar(100), username varchar(100),
roll_number int PRIMARY KEY, password varchar(100));''')
print("Table created successfully")
conn.close()

```

**signup.html**

```
<html>
<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>Harsini Registration Page</title>
  <style>

    body {
      width: 50%;
      margin: auto;
      background: #e9e9e9;
      color: #939393;
      font: 400 87.5%/1.5em "Open Sans", sans-serif;
    }
    h1 {
      color: #000;
      font-size: 30;
      text-align: center;
      padding: 1em 0;
      margin: 40;
    }
    form{
      padding: auto;
    }
    .item{

      padding: auto;
      text-align: center;
      font-size: larger;
      color: #000;
      min-width: 400px;
    }
    input[type=submit] {
      width: 100%;
      padding: 15px 20px;

      align-self: center;
      align-items: center;
      font-size: large;
      margin-top: 30;
    }

    input[type=submit]:hover {
      background-color: #74bfcf;
    }
  </style>
</html>
```

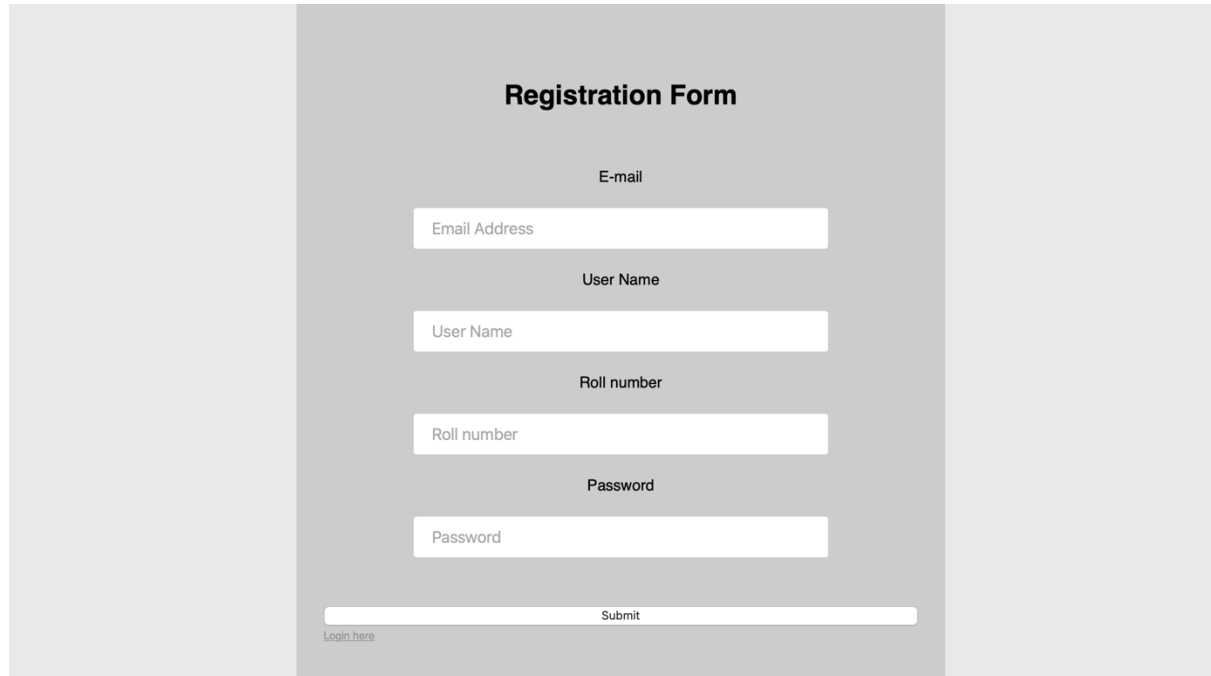
```

input[type=password], [type=email],[type=text] {
    width: 70%;
    padding: 12px 20px;
    display: inline-block;
    border: 1px solid #ccc;
    border-radius: 4px;
    box-sizing: border-box;
    font-size: large;
}
label{
    text-align: left;
    align-self: flex-start;
    align-items: flex-start;
}
.overall{
    background-color: #ccc;
    padding: 30;
}

</style>
</head>
<body>
    <div class="overall">
        <h1>Registration Form</h1>
        <form method="post" action="">
            <div class="item">
                <label for="email">E-mail</label><br><br>
                <input type="email" name="email" required="required" placeholder="Email
Address"></input><br><br>
            </div>
            <div class="item">
                <label for="text">User Name</label><br><br>
                <input type="text" name="username" required="required"
placeholder="User Name"></input><br><br>
            </div>
            <div class="item">
                <label for="text">Roll number</label><br><br>
                <input type="text" name="rollno" required="required"
placeholder="Roll number"></input><br><br>
            </div>
            <div class="item">
                <label for="password">Password</label><br><br>
                <input type="password" name="password" required="required"
placeholder="Password"></input><br><br>
            </div>
            <input type="submit" value="Submit">
            <small><u>Login here <a href="{{url_for('login')}}"></a></u></small>
        </form>
    </div>

```

```
</body>  
</html>
```



The image shows a registration form titled "Registration Form" centered on a gray background. The form consists of several input fields and a submit button, each with a label above it. The labels are "E-mail", "User Name", "Roll number", "Password", and "Submit". The input fields are white with gray placeholder text: "Email Address", "User Name", "Roll number", and "Password". A small link "Login here" is located at the bottom left of the form area.

**Registration Form**

E-mail

Email Address

User Name

User Name

Roll number

Roll number

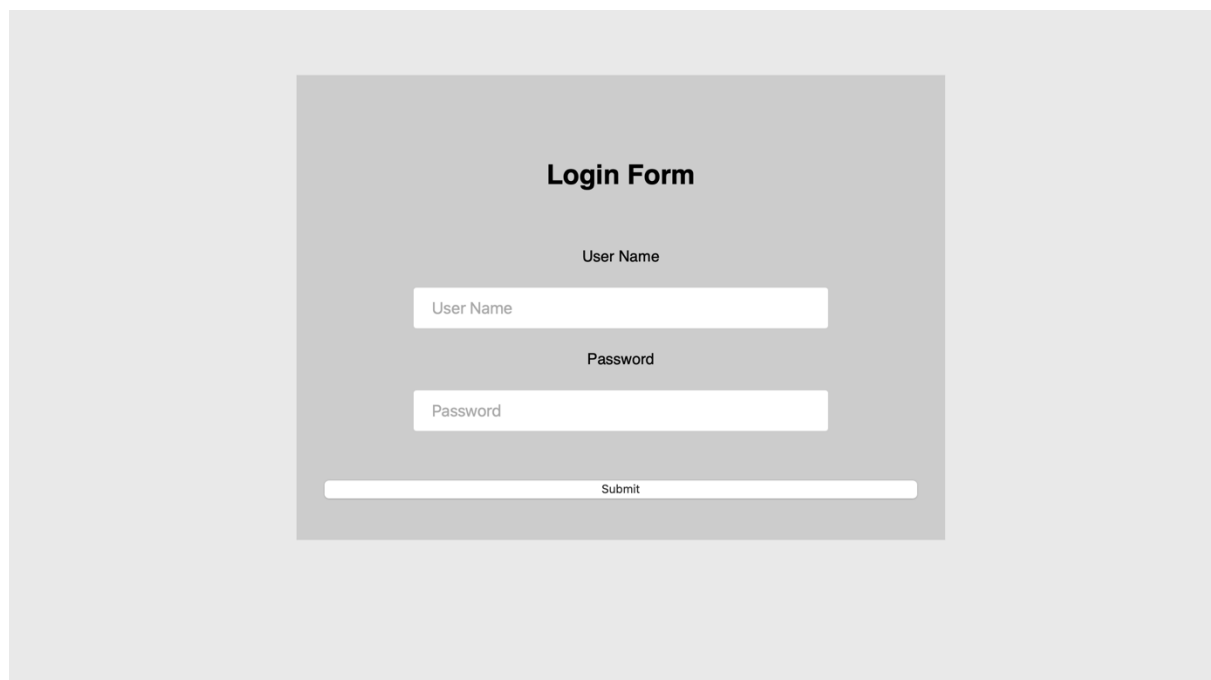
Password

Password

Submit

[Login here](#)

**login.html**



The image shows a login form titled "Login Form" centered on a gray background. The form consists of two input fields and a submit button, each with a label above it. The labels are "User Name" and "Password". The input fields are white with gray placeholder text: "User Name" and "Password". A "Submit" button is at the bottom.

**Login Form**

User Name

User Name

Password

Password

Submit

```

<html>
  <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>Harsini Login Page</title>
    <style>

      body {
        position: absolute;
        top: 10%;
        left: 25%;
        width: 50%;
        margin: auto;
        background: #e9e9e9;
        color: #939393;
        font: 400 87.5%/1.5em "Open Sans", sans-serif;
      }
      h1 {
        color: #000;
        font-size: 30;
        text-align: center;
        padding: 1em 0;
        margin: 40;
      }
      form{
        padding: auto;
      }
      .item{

        padding: auto;
        text-align: center;
        font-size: larger;
        color: #000;
        min-width: 400px;
      }
      input[type=submit] {
        width: 100%;
        padding: 10px 20px;
        align-self: center;
        align-items: center;
        font-size: large;
        margin-top: 30;
      }

      input[type=password],[type=text] {
        width: 70%;
        padding: 12px 20px;
        display: inline-block;
        border: 1px solid #ccc;
        border-radius: 4px;

```

```

        box-sizing: border-box;
        font-size: large;
    }
    label{
        text-align: left;
        align-self: flex-start;
        align-items: flex-start;
    }
    .overall{
        background-color: #ccc;
        padding: 30;
    }</style>
</head>
<body>
    <div class="overall">
        <h1>Login Form</h1>
        <form method="POST" action="">
            <div class="item">
                <label for="text">User Name</label><br><br>
                <input type="text" name="username" required="required"
placeholder="User Name"></input><br><br>
            </div>
            <div class="item">
                <label for="password">Password</label><br><br>
                <input type="password" name="password" required="required"
placeholder="Password"></input><br><br>
            </div>
            <input type="submit" value="Submit">
        </form>
    </div>
</body>
</html>

```

## Welcome page – home.html

```

<html>
<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>Harsini Welcome Page</title>
    <style>
        h1 {
            color: #000;
            font-size: 30;
            text-align: center;
            padding: 5em 0;
            margin: 40;
        }
    </style>

```

```
    }  
  </style>  
</head>  
<body>  
  <h1>Hi there! Welcome , you login was successfull!</h1>  
</body>  
</html>
```

**Hi there! Welcome , you login was successfull!**