

Assignment -2

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QUESTION

1. Create User table with email, username, roll number, password.
2. Perform UPDATE, DELETE Queries with user table
3. Connect python code to db2.
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 with username and password. If the user is valid show the welcome page

SOLUTION

Template About.html

```
<!DOCTYPE html>
<html lang="en">
  <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>About</title>
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT"
      crossorigin="anonymous"
    />
  </head>
  <body class="px-4 py-3">
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
      <a class="navbar-brand" href="#">Flask</a>
      <button
        class="navbar-toggler"
        type="button"
        data-toggle="collapse"
        data-target="#navbarNavAltMarkup"
        aria-controls="navbarNavAltMarkup"
        aria-expanded="false"
        aria-label="Toggle navigation"
      >
        <span class="navbar-toggler-icon"></span>
      </button>
```

```

<div class="collapse navbar-collapse" id="navbarNavAltMarkup">
  <div class="navbar-nav">
    <a class="nav-item nav-link" href="/">Home </a>
    <a class="nav-item nav-link active" href="/about">About</a>
    <a class="nav-item nav-link" href="/login">Login</a>
    <a class="nav-item nav-link" href="/register">Register</a>
  </div>
</div>
</nav>
<h1>About Page</h1>
</body>
</html>

```

Home.html

```

<!DOCTYPE html>
<html lang="en">
  <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>Home</title>
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYa1lGyVh/UjpbCx/TYkiZhlZB6+fzT"
      crossorigin="anonymous"
    />
  </head>
  <body class="px-4 py-3">
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
      <a class="navbar-brand" href="#">Flask</a>
      <button
        class="navbar-toggler"
        type="button"
        data-toggle="collapse"
        data-target="#navbarNavAltMarkup"
        aria-controls="navbarNavAltMarkup"
        aria-expanded="false"
        aria-label="Toggle navigation"
      >
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-item nav-link active" href="/">Home </a>
          <a class="nav-item nav-link" href="/about">About</a>
          <a class="nav-item nav-link" href="/login">Login</a>
          <a class="nav-item nav-link" href="/register">Register</a>
        </div>
      </div>
    </nav>
    <h1>Home Page</h1>

```

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

Login.html

```
<!DOCTYPE html>
<html lang="en">
  <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>Login</title>
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
iYQeCzEYFbKjA/T2uDLtpkwGzCiq6soy8tYal1GyVh/UjpbCx/TYkiZhlZB6+fzT"
      crossorigin="anonymous"
    />
  </head>
  <body class="px-4 py-3">
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
      <a class="navbar-brand" href="#">Flask</a>
      <button
        class="navbar-toggler"
        type="button"
        data-toggle="collapse"
        data-target="#navbarNavAltMarkup"
        aria-controls="navbarNavAltMarkup"
        aria-expanded="false"
        aria-label="Toggle navigation"
      >
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-item nav-link" href="/">Home </a>
          <a class="nav-item nav-link" href="/about">About</a>
          <a class="nav-item nav-link active" href="/login">Login</a>
          <a class="nav-item nav-link" href="/register">Register</a>
        </div>
      </div>
    </nav>
    <h3>Login</h3>
    <form>
      <div class="form-group">
        <label for="exampleInputEmail1">Email address</label>
        <input
          type="email"
          class="form-control"
          id="exampleInputEmail1"
          aria-describedby="emailHelp"
          placeholder="Enter email"
        />
      </div>
```

```

<div class="form-group">
  <label for="exampleInputPassword1">Password</label>
  <input
    type="password"
    class="form-control"
    id="exampleInputPassword1"
    placeholder="Password"
  />
</div>
<div class="form-check">
  <input type="checkbox" class="form-check-input" id="exampleCheck1" />
  <label class="form-check-label" for="exampleCheck1">Check me out</label>
</div>
<button type="submit" class="btn btn-primary">Submit</button>
</form>
</body>
</html>

```

Register.html

```

<!DOCTYPE html>
<html lang="en">
  <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>Register</title>
    <link
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-
iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYa1lGyVh/UjpbCx/TYkiZhlZB6+fzT"
      crossorigin="anonymous"
    />
  </head>
  <body class="px-4 py-3">
    <nav class="navbar navbar-expand-lg navbar-light bg-light">
      <a class="navbar-brand" href="#">Flask</a>
      <button
        class="navbar-toggler"
        type="button"
        data-toggle="collapse"
        data-target="#navbarNavAltMarkup"
        aria-controls="navbarNavAltMarkup"
        aria-expanded="false"
        aria-label="Toggle navigation"
      >
        <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
        <div class="navbar-nav">
          <a class="nav-item nav-link" href="/">Home </a>
          <a class="nav-item nav-link" href="/about">About</a>
          <a class="nav-item nav-link active" href="/login">Login</a>

```

```

        <a class="nav-item nav-link" href="/register">Register</a>
    </div>
</div>
</nav>
<h3>Register</h3>
<form>
    <div class="form-group">
        <label for="exampleInputEmail">Email address</label>
        <input
            type="email"
            class="form-control"
            id="exampleInputEmail"
            aria-describedby="emailHelp"
            placeholder="Enter email"
        />
    </div>
    <div class="form-group">
        <label for="exampleInputPassword1">Password</label>
        <input
            type="password"
            class="form-control"
            id="exampleInputPassword1"
            placeholder="Password"
        />
    </div>
    <div class="form-check">
        <input type="checkbox" class="form-check-input" id="exampleCheck1" />
        <label class="form-check-label" for="exampleCheck1">Check me out</label>
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
</form>
</body>
</html>

```

App.py

```

from flask import Flask, render_template

app = Flask(__name__)

@app.route("/")
def hello_world():
    return render_template('home.html', name="Home")

@app.route("/about")
def about():
    return render_template('about.html', name="About")

@app.route("/login")
def login():
    return render_template('login.html', name="Login")

@app.route("/register")

```

```
def register():  
    return render_template('register.html', name="Register")
```