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Assignment Number	02
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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 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

- **login.html**

```

1  <html>
2  <head>
3      <title>Flask Intro - login page</title>
4      <meta name="viewport" content="width=device-width, initial-scale=1.0">
5      <link href="static/bootstrap.min.css" rel="stylesheet" media="screen">
6  </head>
7  <body>
8  <div class="container">
9      <h1>Please login</h1>
10     <br>
11     <form action="" method="post">
12         <input type="text" placeholder="Username" name="username" value="{{
13             request.form.username }}">
14         <input type="password" placeholder="Password" name="password" value="{{
15             request.form.password }}">
16         <input class="btn btn-default" type="submit" value="Login">
17     </form>
18     {% if error %}
19     <p class="error"><strong>Error:</strong> {{ error }}
20     {% endif %}
21 </div>
22 </body>
23 </html>

```

- **Index.html**

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta http-equiv="X-UA-Compatible" content="IE=edge">
6      <meta name="viewport" content="width=device-width, initial-scale=1.0">
7      <title>Document</title>
8  </head>
9  <body style="margin:0;">
10     <div style="height: 100vh; width: 100vw; display:flex; justify-content:center; align-items: center; flex-direction: column;">
11         <h1>Registration</h1>
12         <form action="", method = "post" style="display: flex; flex-direction:column">
13             <input style="margin: 0.5rem 0" name="name" placeholder="Name">
14             <input style="margin: 0.5rem 0" type="email" name="email" placeholder="Email">
15             <input style="margin: 0.5rem 0" name="r_no" placeholder="Roll Number">
16             <input style="margin: 0.5rem 0" type="password" placeholder="Password" name="password" >
17             <button style="margin: 0.5rem 0" type="submit">Submit</button>
18         </form>
19         {% if error %}
20         <p class="error"><strong>Error:</strong> {{ error }}
21         {% endif %}
22     </div>
23 </body>
24 </html>

```

- welcome.html

```

1  <!DOCTYPE html>
2  <html>
3  <body>
4
5  <h1>WELCOME WELCOME WELCOME WELCOME </h1>
6  {% if error %}
7  <p class="error"><strong>AUTHENTICATED:</strong> {{ error }}
8  {% endif %}
9
10 </body>
11 </html>
12

```

- MAIN.py

```

from flask import Flask, render_template, redirect, url_for, request
from flask_db2 import DB2

```

```

app = Flask(__name__)
app.config['DB2_DATABASE'] = 'ibm'
app.config['DB2_HOSTNAME'] = 'localhost'
app.config['DB2_PORT'] = 25000
app.config['DB2_PROTOCOL'] = 'TCPIP'
app.config['DB2_USER'] = 'db2admin'
app.config['DB2_PASSWORD'] = 'QWERTYDEV'

```

```

db = DB2(app)

```

```

@app.route('/login', methods=['GET', 'POST'])
def login():
    error = None
    print("fff")
    if request.method == 'POST':
        cur = db.connection.cursor()
        cur.execute('select * from user;');
        #print(cur.execute('INSERT INTO user(email, username, roll_number, password) VALUES (\kavin@gmail.com\, \kavin\,
        s=cur.fetchall()

        cur.close()

        username=request.form['username']
        password=request.form['password']
        print(s)
        check=False
        for st in s:

            if(len(st)>3 and st[0]==username and st[3]==password):
                # 0 email 1 username 2 roll no 3 password 4 index
                check=True
                print('done')
                error='WELCOME '+st[1]+' you are LOGINED'
                break

        if check:
            error=error
            return render_template('welcome.html',error=error)
        else:
            error = 'Invalid Credentials. Please try again.'

    return render_template('login.html', error=error)
if __name__ == "__main__":
    app.run()

```

OUTPUT:

Registration

PRANAV DEVI
devi420@gmail.com
1905036
.....
Submit

login

127.0.0.1:5000

Registration

kavin

kavin123@gmail.com

1905023

.....

Submit

ENTERED INTO YOUR ACCOUNT

AUTHENTICATED: WELCOME PRANAV DEVI you are LOGINED
