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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'] = 'db2bajra'

db = DB2(app)

@app.route('/', methods=['GET', 'POST'])
def register():
    error=None
    check=False
    cheins=False
    cheex=False
    if request.method == 'POST':
        error=None
        check=False
        cheins=False
        cheex=False
        uname=request.form['name']
        passw=request.form['password']
        r_no=request.form['r_no']
        email=request.form['email']

    if (len(uname)>0 and len(passw)>0 and len(r_no)>0 and len(email)>0):
        check=True
        cur = db.connection.cursor()
        cur.execute('select * from user where username=\''+uname+'\'' or email=\''+email+'')
        s=cur.fetchall()
        if(len(s)==0):
            cheex=True
            cheins=cur.execute('INSERT INTO user(email, username, roll_number, password)')
        if check and cheins and cheex:
            error=None
            return redirect(url_for('login'))
        else:
            if not check:
                error = 'ENTER ALL DATA.'
            elif not cheex:
                error = 'DATA ALREADY exist.'
            else:
                error = 'TRY AFTER SOME TIME'
    return render_template('index.html', error=error)
```

```

@app.route('/login', methods=['GET', 'POST'])
def login():
    error = None
    print("ffqqqqqqqqqqf")
    if request.method == 'POST':
        cur = db.connection.cursor()
        cur.execute('select * from user;');
        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[2]==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

VAIBAV BAJRA
bajra007@gmail.com
1905056

Submit

login

ENTERED INTO YOUR ACCOUNT

AUTHENTICATED: WELCOME VAIBAV BAJRA you are LOGINED
