Assignment -2
IBM CLOUD DB2

Assignment Date	29 September 2022
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Maximum Marks	2 Marks

Questions:

1. Create User table with user with email, username, roll number, password.

2. Perform UPDATE,DELETE Queries with user table.

        UPDATE TABLE:-

DELETE TABLE:-

3.Connect python code to db2.

NOTE:- Question 4 contains Question 3 answer

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

Answers

App.py

```python
from flask import Flask, render_template, request, redirect,
url_for, session import ibm_db import re   app = Flask(__name__)
app.secret_key =
'a'


conn = ibm_db.connect(
    "DATABASE=bludb;HOSTNAME=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;USERNAM
E=dtp46044;PASSWORD=95soX0sZGhb4ToUj;SECURITY=SSL;SSLSERVERCERTIFICATE=DigiCer
tGlobalRootCA.crt;", "", "")

@app.route("/", methods=['GET', 'POST'])
def register():     msg = ''     if
request.method == 'POST':
        username = request.form['username']
```

```python
        email = request.form['email']
password = request.form['password']          sql =
"SELECT * FROM users WHERE username =?"          stmt
= ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.execute(stmt)              account =
ibm_db.fetch_assoc(stmt)           print(account)
if account:
           msg = 'Account already exists !'          elif not
re.match(r'[^@]+@[^@]+\.[^@]+', email):              msg =
'Invalid email address !'          elif not re.match(r'[A-
Zaz09]+', username):               msg = 'name must contain only
characters and numbers !'          else:                 insert_sql =
"INSERT INTO  users VALUES (?, ?,
?)"            prep_stmt = ibm_db.prepare(conn, insert_sql)
ibm_db.bind_param(prep_stmt, 1, username)
ibm_db.bind_param(prep_stmt, 2, email)
ibm_db.bind_param(prep_stmt, 3, password)
ibm_db.execute(prep_stmt)              msg = 'You have
successfully registered !'      elif request.method == 'POST':
        msg = 'Please fill out the form !'
return render_template('register.html', msg=msg)

@app.route('/login', methods=['GET', 'POST']) def
login():      global userid      msg = ''          if
request.method == 'POST':          username =
request.form['username']          password =
request.form['password']          sql = "SELECT *
FROM users WHERE username =? AND password=?"
stmt = ibm_db.prepare(conn, sql)
ibm_db.bind_param(stmt, 1, username)
ibm_db.bind_param(stmt, 2, password)
ibm_db.execute(stmt)          account =  ibm_db.fetch_assoc(stmt)
print(account)          if account:
           session['loggedin'] = True
session['id'] = account['USERNAME']              userid =
account['USERNAME']              session['username'] =
account['USERNAME']              msg = 'Logged in
successfully !'
```

```
            msg = 'Logged in successfully !'                return
render_template('dashboard.html', msg=msg)            else:
            msg = 'Incorrect username / password !'      return
render_template('login.html', msg=msg)


if __name__ == '__main__':       app.run(host='0.0.0.0')
# app.run(debug=True)
```

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>Smart Fashion register</title>


    <!-- bootstrap css cdn -->      <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/fonta wesome.css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="/static/css/style.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link  href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">      <link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>
    <!-- bootstrap navbar -->
    <!-- navbar ends -->
    <!-- Login form -->
    <div class="login text-center mt-5">


        <form action="/" method="post">
            <h2 class="form-text-h2"> Register Form </h2>             <div
class="msg">{{ msg }}</div>              <input type="text" class="form-control"
name="username" placeholder="Enter Your
Username" id="username"             required>
            <input type="email" class="form-control" name="email" placeholder="Enter
Your Email ID" id="email" required>             <input type="password" class="form-
```

```
control" name="password" placeholder="Enter Your Password" id="password"
required>
            <button type="submit" id="button" class="btn btn-primary">  Register
</button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                <p> already have an account ? please login <a href="/login">login! </a>
</p>

            </div>
        </form>

    </div>


</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>Smart Fashion Login</title>        <!-- favicon --
>
    <!-- <link rel="shortcut icon" href="/assets/img/favicon.ico" type="image/xicon">
-->
    <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon"> -->
    <link  rel="icon"  type="image/png"  sizes="16x16"
href="/assets/img/favicon32x32.png">
    <!-- bootstrap css cdn -->
<link                                                                rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css "
```

```html
        integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpSL0n8PARn9HuZOnIxN0hoP+VmmDGMN5t9UJ0Z" crossorigin="anonymous">
<link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fontawesome/4.7.0/css/fontawesome. css">
    <!-- css stylesheet -->
    <link rel="stylesheet" href="/static/css/style2.css">
    <!-- font styles cdn -->
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css2?family=Alegreya&display=swap"
rel="stylesheet">
    <link
href="https://fonts.googleapis.com/css2?family=Alegreya:wght@600&display=swap"
rel="stylesheet">
</head>

<body>

    <div class="login text-center mt-5">

        <form action="/login" method="post">
            <h2 class="form-text-h2"> Login Form </h2>
            <div class="msg">{{ msg }}</div>
            <div class="form-group mb-3">
                <label class="label" for="username">Username</label>
                <input type="text" class="form-control" placeholder="Username"
name="username" required>
            </div>
            <div class="form-group mb-3">
                <label class="label" for="password">Password</label>
                <input type="password" class="form-control" placeholder="Password"
name="password" required>
            </div>

            <button type="submit" id="button" class="btn btn-primary"> Login </button>
            <div class="note mt-3 text-center">
                <!--Register form -->
                <p> Don't have an account yet? Click here to
<a href="/">register! </a> </p>               </div>
        </form>
    </div>


</body>
</html>
```
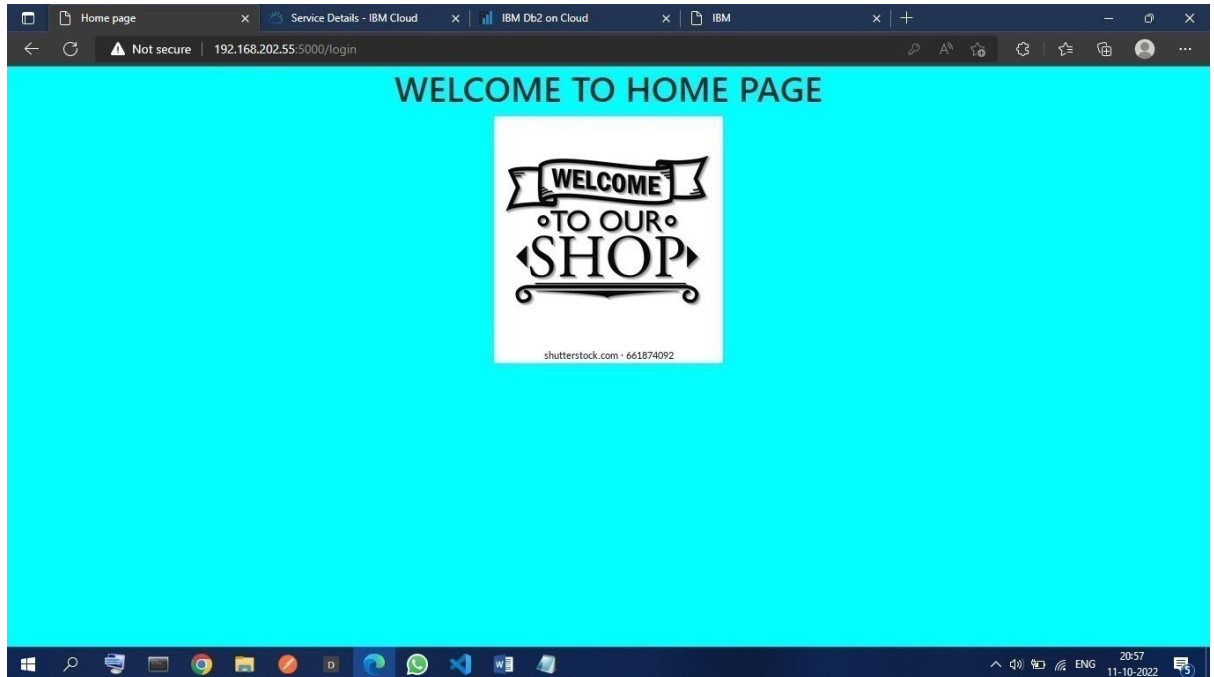
Style.css

```css
* {
margin: 0;
padding: 0;
}

body {     background-color:
aqua !important;     display:
flex;     flex-direction:
column;     alignitems: center;
justifycontent: center;   }   form
{     display: flex;     flex-
direction: column;     align-
items: center;
justifycontent: center;
backgroundcolor: white;
width: 40%;     height:
450px;     borderradius:
50px;     margin:
100px;     gap:
25px;

}   h2 {     font-size:
large;     font-weight:
bolder;
}   input
{     width: 80% !important;   }   div
{     display: flex;     alignitems:
center;     justifycontent:
center;     flexdirection:
column;     width: 90%;
}

.form-text-vk {     fontsize:
small;     paddingbottom:
10px;
```

```
}

.form-text-h2 {         font-size: x-large;         padding-top: 10px;
}
```

Output:- registration page:-

Login Page:-

Welcome Page:-

Data Base Table :-