

ASSIGNMENT 3

TEAM ID	PNT2022TMID27420
PROJECT NAME	Smart Fashion Recommender Application
NAME	ARAVINDHAN I
ROLL NO	311019205006

Questions:

1. Create User table with user with email, username, roll number, password.
2. Perform UPDATE,DELETE Queries with user table.

UPDATE TABLE:-

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

DTP46044.USERTABLE Back

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
VK	21	VK@gmail.com	1234

DELETE TABLE:-

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

DTP46044.USERTABLE Back

Export to CSV

USERNAME	ROLLNO	EMAIL	PASSWORD
PARAPESH	21	VK@gmail.com	1234
VK	22	VK@gmail.com	12345

IBM Db2 on Cloud

Data objects My script

Filter objects

DTP46044

*Untitled - 1

SQL DELETE

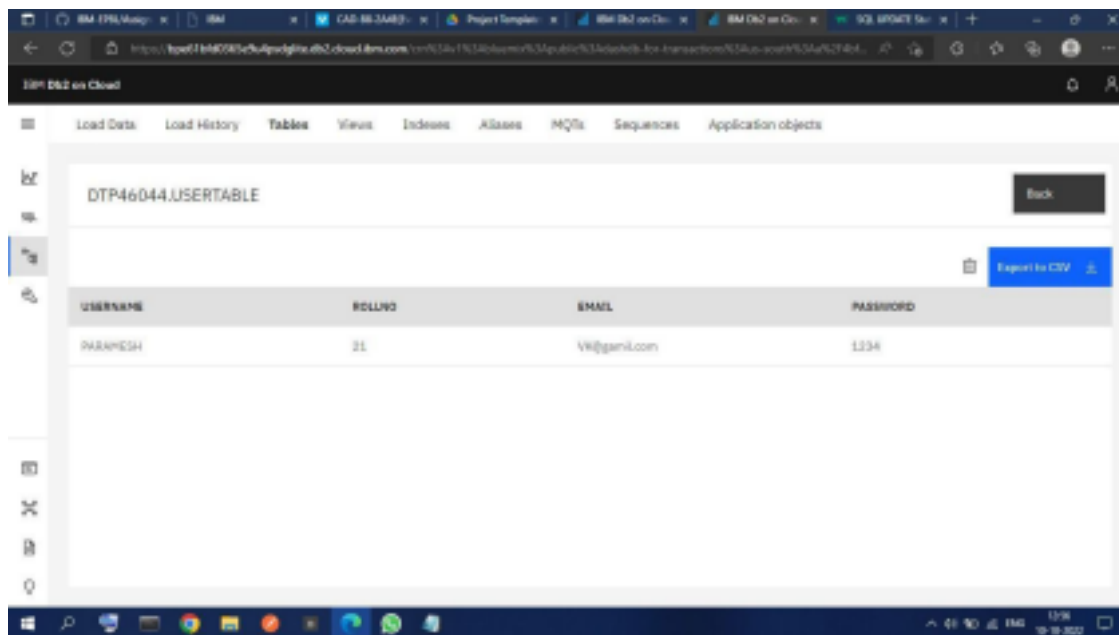
1. DELETE FROM USERTABLE WHERE ROLLNO = 21

Run all

History Results

Find history

Script	Date	Status	Runtime
1. InsertData - 1	Oct 18, 2022 1:50:47 PM	Success	0.004 s
DELETE FROM USERTABLE WHERE ROLLNO = 21	Oct 18, 2022 1:50:52 PM	Success	0.004 s
1. InsertData - 1	Oct 18, 2022 1:50:52 PM	Success	0.007 s
1. InsertData - 1	Oct 18, 2022 12:59:39 PM	Failure	0.004 s



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

```
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']
```

```
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-Za-z0-9]+', 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(prepare_stmt, 1, username)
    ibm_db.bind_param(prepare_stmt, 2, email)
    ibm_db.bind_param(prepare_stmt, 3, password)
    ibm_db.execute(prepare_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/font-
awesome/4.7.0/css/font-awesome.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/x-icon"> -->
    <!-- <link rel="icon" href="/assets/img/favicon.ico" type="image/x-icon">
-->
    <link rel="icon" type="image/png" sizes="16x16" href="/assets/img/favicon-
32x32.png">
    <!-- bootstrap css cdn -->
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
"

```

integrity="sha384-
JcKb8q3iqJ61gNV9KGb8thSsNjpsL0n8PARn9HuZOOnIxN0hoP+VmmDGMN5t9UJ0Z "
crossorigin="anonymous">


```

    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/font
awesome/4.7.0/css/font-awesome.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"

</button>

        </html>
        class="btn btn-primary"> Login

        <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>

```

Style.css

```

* {
margin:
0;

```

```
padding: 0;
}

body {
  background-color: aqua !important;
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content:
  center;
}

form {
  display: flex;
  flex-direction: column;
  align-items: center;
  justify-content:
  center;
  background-color:
  white; width: 40%;
  height: 450px;
  border-radius: 50px;
  margin: 100px;
  gap: 25px;
}

h2 {
  font-size: large;
  font-weight: bolder;
}

input {
  width: 80% !important;
}

div {
  display: flex;
  align-items: center;
  justify-content:
  center; flex-direction:
  column; width: 90%;
}

.form-text-vk {
  font-size: small;
  padding-bottom: 10px;
}
```

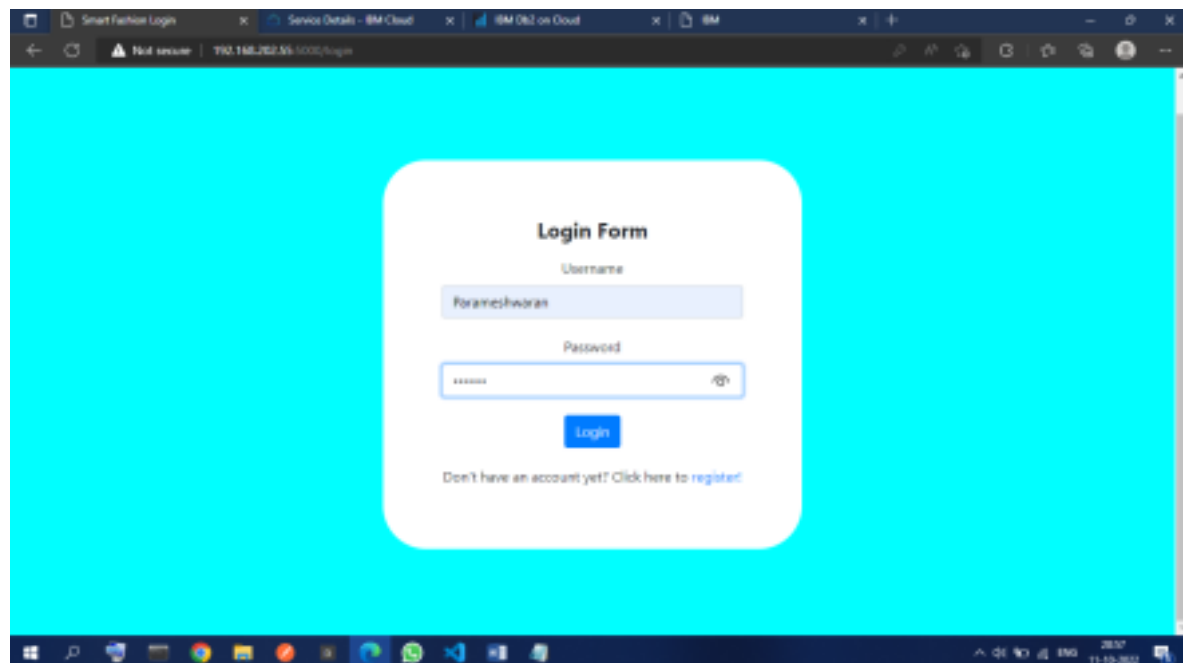
```
}  
  
.form-text-h2 {  
  font-size: x-large;  
  padding-top:  
    10px;  
}
```

Output:-

registration page:-



Login Page:-



Welcome Page:-



Data Base Table :-

