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Cloud Computing

Smart Fashion Recommender

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ASSIGNMENT-3:

1. Create a Bucket in IBM object storage.
2. Upload an 5 images to IBM object storage and make it public. Write html code to displaying all the 5 images.
3. Upload a CSS page to the object storage and use the same page in your HTML code.
4. Design a chatbot using IBM Watson assistant for hospital. Ex: User comes with query to know the Branches for that hospital in your city. Submit the web URL of that chat bot as a assignment.
5. Create Watson assistant service with 10 steps and use 3 conditions in it. Load that script in HTML Page.

SOURCE CODE:

Assign3.py

```
From flask import Flask, render_template, request, redirect, url_for, session
```

```
Import ibm_db
```

```
Import bcrypt
```

```
Conn =
```

```
Ibm_db.connect("DATABASE=bludb;HOSTNAME=;PORT=;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=;PWD=","")
```

```
# url_for('static', filename='style.css')
```

```
App = Flask( name )
```

```

App.secret_key = b'_5#y2L"F4Q8z\n\xec]/'
@app.route("/",methods=['GET'])
Def home():
If 'email' not in session:
Return redirect(url_for('login'))
Return render_template('home.html',name='Home')
@app.route("/register",methods=['GET','POST'])
Def register(): if
Request.method == 'POST':
Email = request.form['email']
Username = Request.form['username']
rollNo = request.form['rollNo']
password = request.form['password']
if not email or not username or not rollNo or not password:
return render_template('register.html',error='Please fill all fields')
hash=bcrypt.hashpw(password.encode('utf-8'),bcrypt.gensalt())
query = "SELECT * FROM USER WHERE email=? OR rollNo=?"
stmt = ibm_db.prepare(conn, query)
ibm_db.bind_param(stmt,1,email)
ibm_db.bind_param(stmt,2,rollNo)
ibm_db.execute(stmt)
isUser = ibm_db.fetch_assoc(stmt)
if not isUser:
insert_sql = "INSERT INTO User(username,email,PASSWORD,rollNo) 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, hash)
Ibm_db.bind_param(prepare_stmt, 4, rollNo)

```

```

Ibm_db.execute(prepare_stmt) return
Render_template('register.html',success="You can login")
Else:
Return render_template('register.html',error='Invalid Credentials')
Return render_template('register.html',name='Home')
@app.route("/login",methods=['GET','POST'])
Def login():
If request.method == 'POST':
Email = request.form['email']
Password = request.form['password']
If not email or not password:
Return render_template('login.html',error='Please fill all fields')
Query = "SELECT * FROM USER WHERE email=?"
Stmt = ibm_db.prepare(conn, query)
Ibm_db.bind_param(stmt,1,email)
Ibm_db.execute(stmt) isUser =
Ibm_db.fetch_assoc(stmt)
Print(isUser,password)
If not isUser:
Return render_template('login.html',error='Invalid Credentials')
isPasswordMatch = bcrypt.checkpw(password.encode('utf-8'),isUser['PASSWORD'].encode('utf-8'))
If not isPasswordMatch:
Return render_template('login.html',error='Invalid Credentials')
Session['email'] = isUser['EMAIL']
Return redirect(url_for('home'))
Return render_template('login.html',name='Home')
@app.route('/logout') def
Logout():
Session.pop('email', None) return

```

Redirect(url_for('login'))

Homepage.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>Document</title>
</head>
<body>
WELCOME
<button><a href="/logout">LOGOUT</a></button>
</body>
</html>
```

Loginpage.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>
</head>
<body>
<h3>Login</h3>
```

```
<form method="POST">
<input type="email" name="email" placeholder="Email" required />
<input type="password" name="password" placeholder="Password" required />
<button type="submit">Login</button>
</form>
<p>{{success}}</p>
<p style="color: red">{{error}}</p>
<a href="/register">Don't have an account? Register</a> </body>
</html>
```

Registerpage.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>
</head>
<body>
<h3>Login</h3>
<form method="POST">
<input type="email" name="email" placeholder="Email" required />
<input type="password" name="password" placeholder="Password" required />
<button type="submit">Login</button>
</form>
<p>{{success}}</p>
<p style="color: red">{{error}}</p>
<a href="/register">Don't have an account? Register</a> </body>
```

</html>

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