ASSIGNMENT-3

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

CREATE TABLE user(email varchar(50) not null, username varchar(20) not null, password varchar(20) not null)

INSERT INTO user(email, username, password)
VALUES('sri@gmail.com', 'sriram', '12345')

2. Perform UPDATE, DELETE Queries with user table

UPDATE user SET username='ganesan' WHERE email='sri@gmail.com'
DELETE FROM user WHERE username = 'ram'

3. Connect python code to db2.

 $conn = ibm_db.connect ("DATABASE=bludb; HOSTNAME=8e359033-a1c9-4643-82ef-8ac06f5107eb.bs2io90l08kqb1od8lcg.databases.appdomain.cloud; PORT=30120; Security=SSL; SSLServerCertificate=DigiCertGlobalRootCA.crt; UID=yyz96800; PWD=auolSxhi3dEXD1nP; ", ", ")$

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.

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=8e359033-a1c9-4643-82ef-
8ac06f5107eb.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30120;Secur
ity=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=yyz96800;PWD=auolSxhi3
dEXD1nP;",",")
 @app.route('/')
 @app.route('/login', methods =['GET', 'POST'])
 def login():
   msg = "
   if request.method == 'POST' and 'username' in request.form and 'password' in
 request.form:
      username = request.form['username']
      password = request.form['password']
```

```
stmt = ibm_db.prepare(conn,'SELECT * FROM users WHERE username = ?
AND password = ?')
    ibm_db.bind_param(stmt,1,username)
    ibm db.bind param(stmt,2,password)
    ibm_db.execute(stmt)
    account = ibm db.fetch assoc(stmt)
    if account:
      session['loggedin'] = True
      session['username'] = account['USERNAME']
      msg = 'Logged in successfully!'
      return render template('index.html', msg = msg)
    else:
      msg = 'Incorrect username / password !'
  return render_template('login.html', msg = msg)
@app.route('/logout')
def logout():
  session.pop('loggedin', None)
  session.pop('id', None)
  session.pop('username', None)
  return redirect(url_for('login'))
```

```
@app.route('/register', methods =['GET', 'POST'])
def register():
  msg = "
  if request.method == 'POST' and 'username' in request.form and 'password' in
request.form and 'email' in request.form:
    username = request.form['username']
    password = request.form['password']
    email = request.form['email']
    stmt = ibm_db.prepare(conn,'SELECT * FROM users WHERE username = ?')
    ibm_db.bind_param(stmt,1,username)
    ibm_db.execute(stmt)
    account = ibm db.fetch assoc(stmt)
    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 = 'Username must contain only characters and numbers!'
    elif not username or not password or not email:
      msg = 'Please fill out the form!'
    else:
      prep stmt = ibm db.prepare(conn,"INSERT INTO users VALUES(?, ?, ?)")
```

```
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)
if__name__== '__main__':
  app.debug = True
  app.run(host='0.0.0.0',port=8080)
INDEX.HTML
<html>
      <head>
            <meta charset="UTF-8">
           <title> Index </title>
           k rel="stylesheet" href="{{ url_for('static', filename='style.css')}
}}">
      </head>
      <body></br></br></br>
```

```
<div align="center">
            <div align="center" class="border">
                  <div class="header">
                        <h1 class="word">Index</h1>
                  </div></br></br>
                        <h1 class="bottom">
                              Hi {{session.username}}!!</br></br> Welcome to
the index page...
                        </h1></br></br>
                        <a href="{{ url_for('logout') }}" class="btn">Logout</a>
            </div>
            </div>
      </body>
</html>
REGISTER.HTML
<html>
      <head>
            <meta charset="UTF-8">
            <title> Register </title>
            k rel="stylesheet" href="{{ url_for('static', filename='style.css')}
}}">
```

```
</head>
     <body></br></br></br>
           <div align="center">
           <div align="center" class="border">
                 <div class="header">
                      <h1 class="word">Register</h1>
                 </div></br></br>
                 <h2 class="word">
                      <form action="{{ url for('register') }}" method="post">
                      <div class="msg">{{ msg }}</div>
                            <input id="username" name="username"
type="text" placeholder="Enter Your Username" class="textbox"/></br>
                            <input id="password" name="password"
type="password" placeholder="Enter Your Password"
class="textbox"/></br>
                            <input id="email" name="email" type="text"
placeholder="Enter Your Email ID" class="textbox"/></br>
                            <input type="submit" class="btn" value="Sign
Up"></br>
                      </form>
                 </h2>
                 Already have an account? <a</pre>
class="bottom" href="{{url for('login')}}"> Sign In here</a>
           </div>
```

```
</div>
      </body>
</html>
LOGIN.HTML
<!-- Store this code in 'login.html' file inside the 'templates' folder -->
<html>
      <head>
            <meta charset="UTF-8">
            <title> Login </title>
            k rel="stylesheet" href="{{ url_for('static', filename='style.css')}
}}">
      </head>
      <body></br></br></br></br>
            <div align="center">
            <div align="center" class="border">
                  <div class="header">
                        <h1 class="word">Login</h1>
                  </div></br></br>
                  <h2 class="word">
                        <form action="{{ url_for('login') }}" method="post">
```

```
<div class="msg">{{ msg }}</div>
                               <input id="username" name="username"
 type="text" placeholder="Enter Your Username" class="textbox"/></br>
                               <input id="password" name="password"
 type="password" placeholder="Enter Your Password"
 class="textbox"/></br></br>
                               <input type="submit" class="btn" value="Sign</pre>
 In"></br></br>
                         </form>
                   </h2>
                   Don't have an account? <a class="bottom"</pre>
 href="{{url_for('register')}}"> Sign Up here</a>
             </div>
             </div>
       </body>
 </html>
 STYLE.CSS
/* Store this code in 'style.css' file inside the 'static' folder*/
.header{
  padding: 0px 120px;
  width: 150px;
  height: 50px;
  background-color: #4a7acc;
```

```
border-radius: 20px;
  padding-bottom: 5px;
}
. border \{\\
  padding: 80px 50px;
  width: 400px;
  height: 450px;
  border: 1px solid #58238e;
  border-radius: 50px;
  background-color: #6683ed;
}
.btn {
  padding: 10px 40px;
  background-color: #10161c;
  color: #FFFFF;
  font-style: oblique;
  font-weight: bold;
  border-radius: 10px;
  padding-bottom: 5px;
}
```

```
.textbox{
  padding: 10px 40px;
  background-color: #5db4d4;
  text-color: #78dbe4;
  border-radius: 10px;
  height: 70px;
  width: 400px;
  font-weight: bold;
  font-size: 15px;
}
::placeholder {
  color: #FFFFF;
  opacity: 1;
  font-style: oblique;
  font-weight: bold;
}
. word \{ \\
  color: #FFFFF;
  font-style: oblique;
  font-weight: bold;
}
```

```
.bottom{
  color: #d5dee2;
  font-style: oblique;
  font-weight: bold;
}
body{
  background-color: rgba(189, 215, 162, 0.2);
}
```

SCREENSHOTS/OUTPUT









