Assignment-2

PROJECT NAME :	Containment Zone Alerting App
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1. Create user table with user with email, username, roll number, password

```
CREATE TABLE user (
roll_number int,
username varchar(300),
email varchar(300),
password varchar(300)
);
```

```
CREATE TABLE users (
    roll_number int,
    username varchar(300),
    email varchar(300),
    password varchar(300)
);
```

SQL query successfully executed. However, the result set is empty.

2. Perform UPDATE, DELETE Queries with user table

INSERT Statement:

INSERT INTO user

```
( roll_number, username ,email, password) VALUES (1,
```

'Raja lingam', 'rajalingam@gmail.com', 'raju987'), (2,

'Ajay', 'ajay@gmail.com','ajay654'),

- (3, 'Anton', 'anton@gmail.com', 'anton321'),
- (4, 'Prasanth', 'prasanth@gmail.com', 'prasanth123');

```
INSERT INTO user

( roll_number, username ,email, password) VALUES

(1, 'Raja lingam', 'rajalingam@gmail.com','raju987'),

(2, 'Ajay', 'ajay@gmail.com','ajay654'),

(3, 'Anton', 'anton@gmail.com','anton321'),

(4, 'Prasanth', 'prasanth@gmail.com','prasanth123');

Output Available Tables

5 Delivered 1
```

User

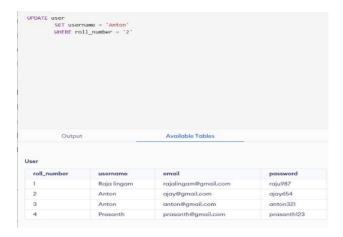
roll_number	username	email	password
1	Raja lingam	rajalingam@gmail.com	raju987
2	Ajay	ajay@gmail.com	ajay654
3	Anton	anton@gmail.com	anton321
4	Prasanth	prasanth@gmail.com	prasanth123

UPDATE Statement:

UPDATE users

SET username = 'Anton'

WHERE roll_number = '2'



Insert Statement:

insert into users values(5,'aa','aaa@gmail.com','aasdfg2');



DELETE Statement:

delete from users where roll_number='5'

ll_number	username	email	password
	Raja lingam	rajalingam@gmail.com	raju987
1	Anton	ajay@gmail.com	ajay654
	Anton	anton@gmail.com	anton321
ļ	Prasanth	prasanth@gmail.com	prasanth123

3. Connect python code to db2.

 $conn = ibm_db.connect("DATABASE=bludb; HOSTNAME=824dfd4d-99de-440d-9991-629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud; PORT=30119; Security=SSL; SSLServerCertificate=DigiCertGlobalRootCA.crt; UID=lbs14903; PWD=1N4walQ5ywwiwP7c; ",",")$

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

```
<!DOCTYPE html>
<html>
<head>
      <meta charset="utf-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-
awesome/4.7.0/css/font-awesome.min.css">
      k rel="stylesheet" type="text/css" href="{{ url_for('static', filename='style.css')}
}}">
      <title>Login Form</title>
</head>
<body>
      <div class="container">
                           <form action="{{ url_for('login') }}" method="POST"
class="login-email">
                                  weight: 800;">Login
                                  <div class="input-group">
                                        <input id="username" type="text"</pre>
placeholder="Enter username" name="username">
                                  </div>
                                  <div class="input-group">
                                        <input id="password" type="password"</pre>
placeholder="Password" name="password">
```

```
</div>
                                  <div class="input-group">
                                         <button name="submit"
class="btn">Login</button>
                                  </div>
                                  Don't have an account?
<a href="{{url_for('register')}}">Register Here</a>.
                           </form>
      </div>
</body>
</html>
register.html:
<!DOCTYPE html>
<html>
<head>
      <meta charset="utf-8">
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
      k rel="stylesheet" href="https://stackpath.bootstrapcdn.com/font-
awesome/4.7.0/css/font-awesome.min.css">
      k rel="stylesheet" type="text/css" href="{{ url_for('static', filename='style.css')}
}}">
      <title>Register Form</title>
</head>
<body>
      <div class="container" >
```

```
<form action="{{url_for('register')}}" method="POST" class="login-email">
       Register
                   <div class="msg">{{ msg }}</div>
                   <div class="input-group">
                          <input type="text" placeholder="Username"</pre>
name="username">
                   </div>
                   <div class="input-group">
                          <input type="email" placeholder="Email" name="email">
                   </div>
                   <div class="input-group">
                          <input type="password" placeholder="Password"</pre>
name="password">
      </div>
                   <div class="input-group">
                          <button type="submit" class="btn">Register</button>
                   </div>
                   Have an account? <a</pre>
href="{{url_for('login')}}">Login Here</a>.
             </form>
      </div>
</body>
</html>
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">
page...
                                  Hi {{session.username}}!!</br>></br> Welcome to Our
                           </h1></br></br>
                           <a href="{{ url_for('logout') }}" class="btn">Logout</a>
              </div>
              </div>
       </body>
</html>
style.css:
.header{
  padding: 5px 120px;
  width: 150px;
  height: 70px;
  background-color: #236B8E;
.border{
  padding: 80px 50px;
  width: 400px;
  height: 450px;
  border: 1px solid #236B8E;
  border-radius: 0px;
  background-color: #9AC0CD;
```

```
.btn {
  padding: 10px 40px;
  background-color: #236B8E;
  color: #FFFFFF;
  font-style: oblique;
  font-weight: bold;
  border-radius: 10px;
}
.textbox{
  padding: 10px 40px;
  background-color: #236B8E;
  text-color: #FFFFF;
  border-radius: 10px;
::placeholder {
  color: #FFFFFF;
  opacity: 1;
  font-style: oblique;
  font-weight: bold;
.word{
  color: #FFFFFF;
  font-style: oblique;
  font-weight: bold;
```

```
.bottom{
  color: #236B8E;
  font-style: oblique;
  font-weight: bold;
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=824dfd4d-99de-440d-9991-
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;Security=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lbs14903;PWD=1N4walQ5ywwi
wP7c;",",")
@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)
```

Output:

