

Assignment -2

Python Programming

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| Assignment Date | 19 September 2022 |
| Student Name | RAGUPATHI N |
| Student Roll Number | 621319205039 |
| Maximum Marks | 2 Marks |

Question-1:

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

Soultion:

The screenshot displays the IBM Db2 on Cloud console interface. The 'Tables' tab is selected, showing a list of tables. The 'USER' table is highlighted, and its definition is shown in a side panel. The table definition panel lists the following columns:

| Name | Data type | Nullable | Length | Scale |
|----------|-----------|----------|--------|-------|
| ROLLNO | VARCHAR | N | 32 | 0 |
| USERNAME | VARCHAR | Y | 32 | 0 |
| EMAIL | VARCHAR | Y | 32 | 0 |
| PASSWORD | VARCHAR | Y | 32 | 0 |

The interface also includes a search bar for schemas or tables, a 'New table' button, and a 'View data' button.

Question-2:

- 2.Perform UPDATE,DELETE Queries with user table

Soultion:

```
def Delete(conn,rollno,name,email,password):
```

```
    sql="UPDATE Users SET ROLLNO ='{}', WHERE USERNAME='{}';".format(rollno,name)
```

```
    stmt=ibm_db.exec_immediate(conn,sql)
```

```
    print("The Number if affected rows: ", ibm_db.num_rows(stmt),"\n")
```

```
def Update(conn,rollno,name,email,password):
```

```
    sql="UPDATE Users SET ROLLNO ='{}', WHERE USERNAME='{}';".format(rollno,name)
```

```
    stmt=ibm_db.exec_immediate(conn,sql)
```

```
    print("The Number if affected rows: ", ibm_db.num_rows(stmt),"\n")
```

Question-3:

Connect python code to db2

Soultion:

```
import ibm_db
try:
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;SECURITY=SSL;
SSLServerCertificateDigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=nhl80748;PWD=3yD0G9e6VuQ
HsOBX;", "", "")
    print("connection Success")
    display(conn)
    Insert(conn,"6213192026","navin raj","winN@gmail.com","euyfuis")
    display(conn)

except:
    print("couldn't connect")
```

Question-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 with username and password. If the user is valid show the welcome page.

Soultion:

//login.html

```
<html>
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-awesome/4.7.0/css/font-
awesome.min.css">
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/particlesjs/2.2.3/particles.min.js">

  </head>
  <style>
    body{
```

```

        background: linear-gradient(to right, #c9522d, #f64c72);
        background-attachment: fixed;
        background-repeat: no-repeat;
        background-size: cover;
        margin: 0;
        padding: 0;
    }
    .form-control, .form-control:focus, .input-group-addon {
        border-color: aliceblue;
        border-radius: 0;
    }
    .signup {
        width: 360px;
        margin: 0 auto;
        padding: 50px 0;
    }

    .signup h2 {
        color: #fd614d;
        text-align: center;
        margin: 0 0 20px;
    }
    .signup form {
        border-radius: 1px;
        margin-bottom: 15px;

        background-color: rgba(0,0,0,0.7) !important;
        border: 1px solid none;
        box-shadow: 0px 2px 2px rgba(0,0,0,0.3);
        padding: 30px;
    }
    .signup .form-group {
        margin-bottom: 30px;
    }
    .signup .form-control {
        min-height: 38px;
        box-shadow: none !important;
        border-width: 0 0 1px 0;
    }
    .form-control {
        background-color: transparent;
        color: #fd614d;
    }
    .form-control:hover {
        background-color: transparent;
    }

```

```
    color: aliceblue;
    overflow: hidden;
    text-decoration: none;
}
.signup .input-group-addon{
    max-width: 42px;
    text-align: center;
    background: none;
    border-bottom: 1px solid aliceblue;
    padding-left: 5px;
}
.input-group-addon{
    font-size: 30px;
}
```

```
.btn{
    background: linear-gradient(259deg,#f64,#f64c72);
    border: none;
    text-align: center;
    padding: 3%;
    font-size: 16px;
    font-weight: bold;
    color: aliceblue;
}
.btn:hover{
    background: aliceblue;
border: none;
color: aliceblue;
color: #fd614d;
}
```

```
.fa{
    color: aliceblue;
}
```

```
.signup .fa-envelope{
    font-size: 23px;
    color: aliceblue;
}
```

```
a{
    color: aliceblue;
    text-decoration: none;
```

```

}

a:hover{
    color:#664a71;
    text-decoration: none;
}

</style>
<body>

    <div class="signup">
        <form action="{{url_for(result)}}" method="post">
            <h2>LOGIN</h2>

            <div class="form-group">
                <div class="input-group">
                    <span class="input-group-addon"><i class="fa fa-envelope"></i></span>
                    <input type="email" name="email" class=" form-control"placeholder="Email" required>
                </div>
            </div>

            <div class="form-group">
                <div class="input-group">
                    <span class="input-group-addon"><i class="fa fa-lock"></i></span>
                    <input type="password" name="password" class=" form-control"placeholder="password"
required>
                </div>
            </div>

            <div class="form-group">
                <button type="submit" class="btn btn-primary btn-lg btn-block">Login</button>
            </div>

        </form>
    </div>

</body>
</html>

```

```

//app.py
import urllib.request
from colorama import Cursor
from flask import Flask, flash,render_template, request, session,url_for,redirect
import ibm_db
from pythondb import dbconn as db

```

```

try:
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=2f3279a5-73d1-4859-88f0-
a6c3e6b4b907.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=30756;SECURITY=SSL;
SSLServerCertificateDigiCertGlobalRootCA.crt;PROTOCOL=TCPIP;UID=nhl80748;PWD=3yD0G9e6VuQ
HsOBX;", "", "")
    print("connection Success")
except:
    print("couldn't connect")
app = Flask(__name__)
@app.route("/")
def homepage():
    return render_template("index.html")

@auth.route('/result', methods=['POST'])
def login_post():

    email = request.form.get('email')
    password = request.form.get('password')
    remember = True if request.form.get('remember') else False

    user = User.query.filter_by(email=email).first()
    if not user or not check_password_hash(user.password, password):
        flash('Please check your login details and try again.')
        return redirect(url_for('auth.login'))
    return redirect(url_for("welcome.html"))

if __name__=="__main__":
    app.run(debug=True)

```