

ASSIGNMENT-3

DATE	11 October 2022
Team ID	PNT2022TMID49588
Project Name	Project-Personal Expense Tracker
Team Member Name	Keerthi J

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

```
MySQL 8.0 Command Line Client
Copyright (c) 2000, 2021, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database Assignment;
Query OK, 1 row affected (0.18 sec)

mysql> create table Keerthi(UserName varchar(50) , RollNumber int , Email varchar(50) , password varchar(50));
ERROR 1046 (3D000): No database selected
mysql> use Assignment;
Database changed
mysql> create table Keerthi(UserName varchar(50) , RollNumber int , Email varchar(50) , password varchar(50));
Query OK, 0 rows affected (0.85 sec)

mysql> desc Keerthi;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| UserName | varchar(50) | YES | | NULL | |
| RollNumber | int | YES | | NULL | |
| Email | varchar(50) | YES | | NULL | |
| password | varchar(50) | YES | | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.08 sec)

mysql>
```

2. Perform UPDATE,DELETE Queries with user table

```
mysql> create table keerthi(Username varchar(50) , RollNumber int , Email varchar(50) , Password varchar(50));
Query OK, 0 rows affected (1.61 sec)

mysql> insert into keerthi values('keerthij',9500,'keerthi@ibm.in','keerthi*02');
Query OK, 1 row affected (0.13 sec)

mysql> insert into keerthi values('Rama',9507,'Rama@gmail.com','Rama@123');
Query OK, 1 row affected (0.19 sec)

mysql> insert into keerthi values('Devi',9532,'Devi@gmail.com','Devi!9');
Query OK, 1 row affected (0.12 sec)

mysql> select * from Keerthi;
+-----+-----+-----+-----+
| Username | RollNumber | Email | Password |
+-----+-----+-----+-----+
| keerthij | 9500 | keerthi@ibm.in | keerthi*02 |
| Rama | 9507 | Rama@gmail.com | Rama@123 |
| Devi | 9532 | Devi@gmail.com | Devi!9 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
MySQL 8.0 Command Line Client

mysql> select * from Keerthi;
+-----+-----+-----+-----+
| Username | RollNumber | Email | Password |
+-----+-----+-----+-----+
| keerthij | 9500 | keerthi@ibm.in | keerthi*02 |
| Rama | 9507 | Rama@gmail.com | Rama@123 |
| Devi | 9532 | Devi@gmail.com | Devi!9 |
+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> update Keerthi set RollNumber=9502 where Email='Devi@gmail.com';
Query OK, 1 row affected (0.19 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from Keerthi;
+-----+-----+-----+-----+
| Username | RollNumber | Email | Password |
+-----+-----+-----+-----+
| keerthij | 9500 | keerthi@ibm.in | keerthi*02 |
| Rama | 9507 | Rama@gmail.com | Rama@123 |
| Devi | 9502 | Devi@gmail.com | Devi!9 |
+-----+-----+-----+-----+
3 rows in set (0.08 sec)

mysql> Delete Keerthi where RollNumber=9507;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right s
yntax to use near 'where RollNumber=9507' at line 1
mysql> Delete from Keerthi where RollNumber=9507;
Query OK, 1 row affected (0.26 sec)

mysql> select * from Keerthi;
+-----+-----+-----+-----+
| Username | RollNumber | Email | Password |
+-----+-----+-----+-----+
| keerthij | 9500 | keerthi@ibm.in | keerthi*02 |
| Devi | 9502 | Devi@gmail.com | Devi!9 |
+-----+-----+-----+-----+
```

3. Connect python code to db2

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-
ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SE
CURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=fpg63020;PWD
=86QWoVKGe6ZxOzUR","")
```

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 the database and navigate to the login page to 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=6667d8e9-9d4d-4ccb-
ba32-
21da3bb5aafc.c1ogj3sd0tgu0lqde00.databases.appdomain.cloud;PORT=30376;SE
CURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=wtj80289;PWD=
XXsOJs4580eCvsJP",",")
@app.route('/')
def home():
    return render_template('register.html')
@app.route('/login', methods =['GET', 'POST'])
def login():
    global userid
    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 accounts 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':
        username = request.form['username']
        password = request.form['password']
        email = request.form['email']
        sql = "SELECT * FROM accounts 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 = 'Username must contain only characters and numbers !'
        elif not username or not password or not email:
            msg = 'Please fill out the form !'
        else:
            insert_sql = "INSERT INTO accounts VALUES (?, ?, ?)"
            stmt = ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(stmt, 1, username)
            ibm_db.bind_param(stmt, 2, password)
            ibm_db.bind_param(stmt, 3, email)
            ibm_db.execute(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.run(debug = True)

```

index.html

```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Index </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body><br><br><br><br><br>
    <div align="center">
      <div align="center" class="border">
        <div class="header">
          <h1 class="word">Index</h1>
        </div><br><br><br>
        <h1 class="bottom">
          Hi {{session.username}}!!<br><br> Welcome to the index page...
        </h1><br><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>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body><br><br><br><br><br>
    <div align="center">
      <div align="center" class="border">
        <div class="header">
          <h1 class="word">Register</h1>
        </div><br><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><br>
            <input id="password" name="password" type="password"
placeholder="Enter Your Password" class="textbox"/><br><br>
```

```

        <input id="email" name="email" type="text" placeholder="Enter Your
Email ID" class="textbox"/></br></br>
        <input type="submit" class="btn" value="Sign Up"></br>
    </form>
</h2>
    <p class="bottom">Already have an account? <a class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
</div>
</div>
</body>
</html>

```

login.html

```

<html>
    <head>
        <meta charset="UTF-8">
        <title> Login </title>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
    </head>
    <body></br></br></br></br></br>
        <div align="center">
            <div align="center" class="border">
                <div class="header">
                    <h1 class="word">Login</h1>
                </div></br></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></br>
                        <input id="password" name="password" type="password"
placeholder="Enter Your Password" class="textbox"/></br></br></br>
                        <input type="submit" class="btn" value="Sign In"></br></br>
                    </form>
                </h2>
                <p class="bottom">Don't have an account? <a class="bottom"
href="{{url_for('register')}}"> Sign Up here</a></p>
            </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: #FFFFFF;
    border-radius: 10px;
}

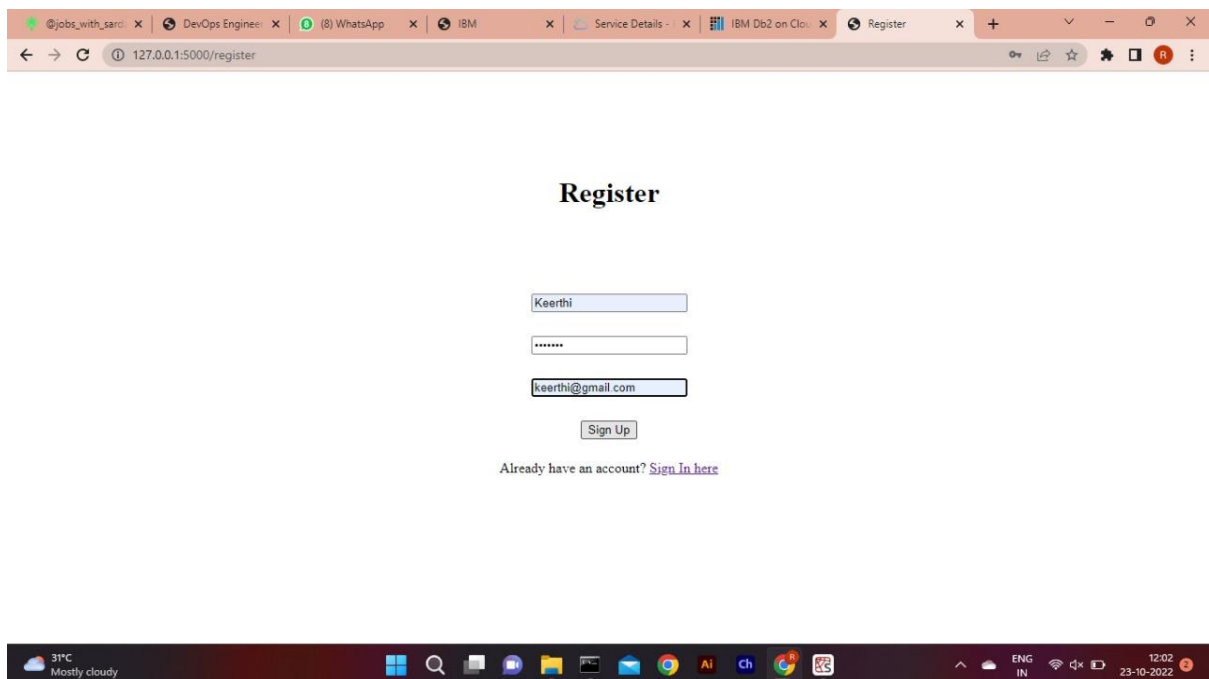
::placeholder {
    color: #FFFFFF;
    opacity: 1;
    font-style: oblique;
    font-weight: bold;
}

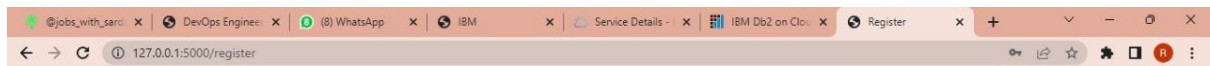
.word{
    color: #FFFFFF;
    font-style: oblique;
```

```
font-weight: bold;
}

.bottom{
color: #236B8E;
font-style: oblique;
font-weight: bold;
}
```

OUTPUT:

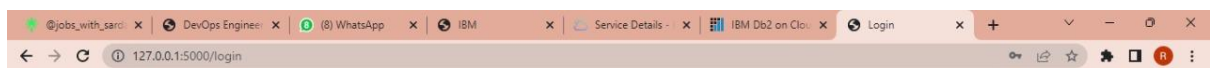




Register

You have successfully registered !

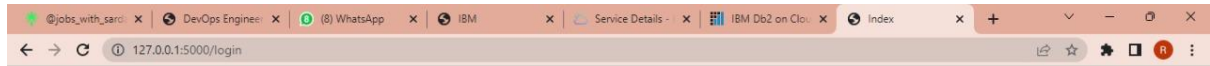
Already have an account? [Sign In here](#)



Login

Don't have an account? [Sign Up here](#)





Index

Hi Keerthi !!

Welcome to the index page...

[Logout](#)

