

Assignment -2

| | |
|---------------------|--------------------------------|
| Assignment Date | 05-10-2022 |
| Student Name | GOKUL. S |
| Student Roll Number | 7179KCTKCTKCTKCTKCTKCT19BCS033 |
| Maximum Marks | 2 Marks |

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

SQL query:

CREATE database IBM

USE IBM

CREATE TABLE User(email varchar(50),username varchar(50),rno integer(5),password varchar(20));

OUTPUT:

```
C:\WINDOWS\system32\cmd.exe - mysql.exe -u root -p
C:\Program Files>cd MySQL
C:\Program Files\MySQL>cd MySQL Server 8.0\bin
C:\Program Files\MySQL\MySQL Server 8.0\bin>mysql.exe -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.31 MySQL Community Server - GPL

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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 db IBM;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'db IBM' at line 1
mysql> CREATE database IBM;
Query OK, 1 row affected (0.00 sec)

mysql> USE IBM
Database changed
mysql> CREATE TABLE USER(email varchar(50),username varchar(50),rno int(5),password varchar(20));
Query OK, 0 rows affected, 1 warning (0.01 sec)

mysql>
```

```
mysql> SELECT * FROM User;
+-----+-----+-----+-----+
| email | username | rno | password |
+-----+-----+-----+-----+
| Ashok | kaushikashok45 | 59 | Ak2001@rox |
| Gokul | gr09 | 27 | gk2001@rox |
| GokulS | gs29 | 29 | gs2001@rox |
| ram01 | ram@ram.com | 72 | Ak2001@rox |
| shyam | shyam@shyam.com | 22 | Ak2001@rox |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT * FROM User;
+-----+-----+-----+-----+
| email | username | rno | password |
+-----+-----+-----+-----+
| Ashok | kaushikashok45 | 59 | Ak2001@rox |
| Gokul | gr09 | 27 | gk2001@rox |
| GokulS | gs29 | 29 | gs2001@rox |
| ram01 | ram@ram.com | 72 | Ak2001@rox |
| shyam | shyam@shyam.com | 22 | Ak2001@rox |
| vishal | vishal@vishal.com | 12 | Ak2001@rox |
| praniis | praniis@praniis.com | 13 | Ak2001@rox |
| adam | adam69@adam.com | 31 | Ak2001@rox |
| nick45 | nick | 46 | Ak2001@rox |
| vishal | vishal@vishal.com | 9 | Ak2001@rox |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql>
```

2. Perform UPDATE,DELETE Queries with user table

SQL Query:

UPDATE Users SET username="ss29" WHERE rno=39;

DELETE FROM User WHERE rno=39;

OUTPUT:

```
C:\WINDOWS\system32\cmd.exe - mysql.exe -u root -p
mysql> INSERT INTO Users VALUES("Ashok","kaushikashok45",59,"Ak2001@rox");
-> ;
ERROR 1146 (42S02): Table 'ibm.users' doesn't exist
mysql> INSERT INTO User VALUES("Ashok","kaushikashok45",59,"Ak2001@rox");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO User VALUES("Gokul","gr09",27,"gk2001@rox");
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO User VALUES("GokulS ","gs29",29,"gs2001@rox");
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO User VALUES("Sarjeel ","ss29",39,"ss2001@rox");
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM Users;
ERROR 1146 (42S02): Table 'ibm.users' doesn't exist
mysql> SELECT * FROM User;
+-----+-----+-----+-----+
| email | username | rno | password |
+-----+-----+-----+-----+
| Ashok | kaushikashok45 | 59 | Ak2001@rox |
| Gokul | gr09 | 27 | gk2001@rox |
| GokulS | gs29 | 29 | gs2001@rox |
| Sarjeel | ss29 | 39 | ss2001@rox |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> UPDATE User SET username="ss29" WHERE rno=39;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

mysql> SELECT * FROM User;
+-----+-----+-----+-----+
| email | username | rno | password |
+-----+-----+-----+-----+
| Ashok | kaushikashok45 | 59 | Ak2001@rox |
| Gokul | gr09 | 27 | gk2001@rox |
| GokulS | gs29 | 29 | gs2001@rox |
| Sarjeel | ss29 | 39 | ss2001@rox |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql>
```

```
C:\WINDOWS\system32\cmd.exe - mysql.exe -u root -p
mysql> INSERT INTO User VALUES("Ashok","kaushikashok45",59,"Ak2001@rox");
Query OK, 1 row affected (0.01 sec)

mysql> INSERT INTO User VALUES("Goku1","gr09",27,"gk2001@rox");
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO User VALUES("Goku1S","gs29",29,"gs2001@rox");
Query OK, 1 row affected (0.00 sec)

mysql> INSERT INTO User VALUES("Sarjeel","ss29",39,"ss2001@rox");
Query OK, 1 row affected (0.00 sec)

mysql> SELECT * FROM Users;
ERROR 1146 (42S02): Table 'ibm.users' doesn't exist
mysql> SELECT * FROM User;
+-----+-----+-----+-----+
| email | username | rno | password |
+-----+-----+-----+-----+
| Ashok | kaushikashok45 | 59 | Ak2001@rox |
| Goku1 | gr09 | 27 | gk2001@rox |
| Goku1S | gs29 | 29 | gs2001@rox |
| Sarjeel | ss29 | 39 | ss2001@rox |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> UPDATE User SET username="ss29" WHERE rno=39;
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0

mysql> SELECT * FROM User;
+-----+-----+-----+-----+
| email | username | rno | password |
+-----+-----+-----+-----+
| Ashok | kaushikashok45 | 59 | Ak2001@rox |
| Goku1 | gr09 | 27 | gk2001@rox |
| Goku1S | gs29 | 29 | gs2001@rox |
| Sarjeel | ss29 | 39 | ss2001@rox |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)

mysql> DELETE FROM User WHERE rno=39;
Query OK, 1 row affected (0.00 sec)

mysql>
```

3. Connect python code to db2.

connecting python to sql

app.py

```
from flask import Flask, render_template, request, redirect, url_for, session
from flask_mysql import MySQL
import MySQLdb.cursors
app = Flask(__name__)
app.secret_key = 'Ak2001@rox'
```

```
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = 'Ak2001@rox'
app.config['MYSQL_DB'] = 'IBM'
```

```
mysql = MySQL(app)
```

```
@app.route('/', methods=['GET', 'POST'])
```

```
def index():
```

```
    if request.method == "POST":
        details = request.form
        username = details['username']
        email = details['email']
        password=details['password']
        rno=details['rno']
        cur = mysql.connection.cursor()
```

```

        cur.execute("INSERT INTO User(email,username,rno,password) VALUES (%s,
%s,%s,%s)", (username,email,rno,password))
        mysql.connection.commit()
        cur.close()
        msg="registered successfully"
        return render_template('login.html',msg=msg)
        return render_template('index.html')

```

```

@app.route('/')
@app.route('/welcome', methods=['GET', 'POST'])
def welcome():
    msg = 'logged in successfully'
    return render_template('welcome.html', msg = msg)
@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']
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM User WHERE username = % s AND password = % s',
(username, password, ))
        account = cursor.fetchone()
        if account:
            session['loggedin'] = True
            session['id'] = account['rno']
            session['username'] = account['username']
            msg = 'Logged in successfully !'
            return render_template('welcome.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'))

```

```

if __name__ == '__main__':
    app.run()
register.html
<html>
<head>
    <title>Registration Page </title>
</head>

```

```

<body>
<form action="http://127.0.0.1:5000//register" method="POST">
    <h1> Registration Form </h1>
    <p> Enter your name : <input type="text" name="name"/></p>
        <p> Enter your mail id: <input type="email" name="mail"/></p>
        <p> Enter your phone number:<input type="number" name="phone"/></p>
        <p> <input type="submit" value="submit"></p>
</form>
</body>
</html>

```

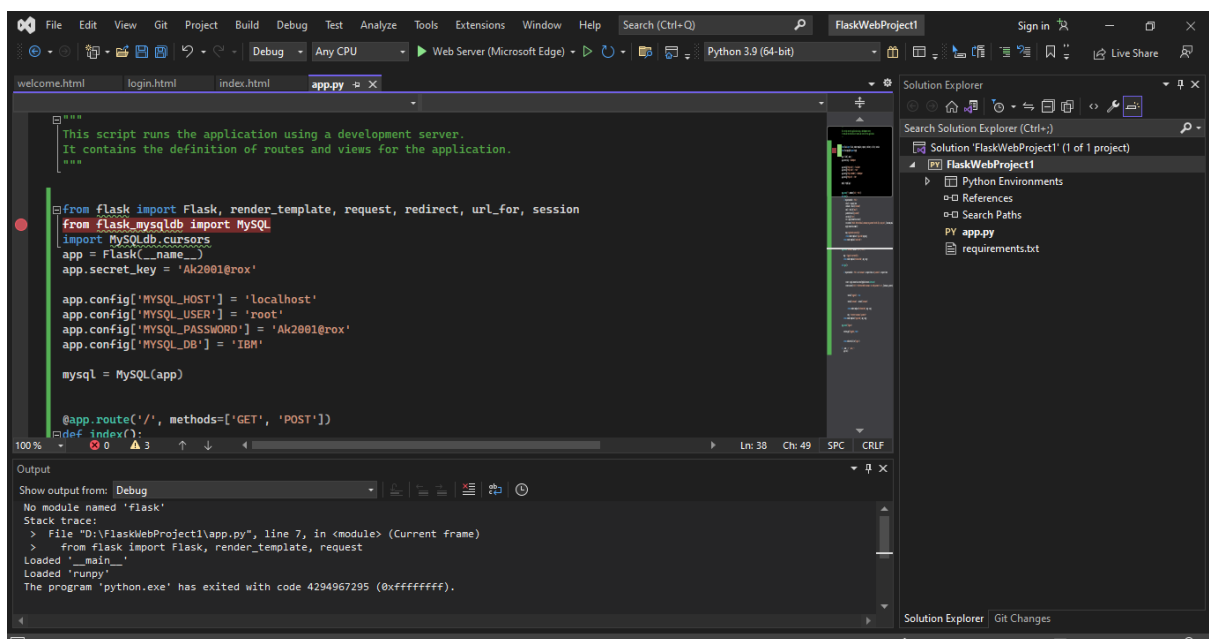
```

app.py
from flask import Flask,redirect,url_for,request
app=Flask(__name__)
@app.route('/success/<string:name>/<string:mail>/<string:phone>')
def success(name,mail,phone):
    return "Name: " + name + " <br> Mail ID: "+mail+" <br> Phone number: "+phone

@app.route('/register',methods=['POST'])
def register():
    if request.method=='POST':
        user=request.form['name']
        mailid=request.form['mail']
        phnum=request.form['phone']
        return redirect(url_for('success',name=user,mail=mailid,phone=phnum))

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

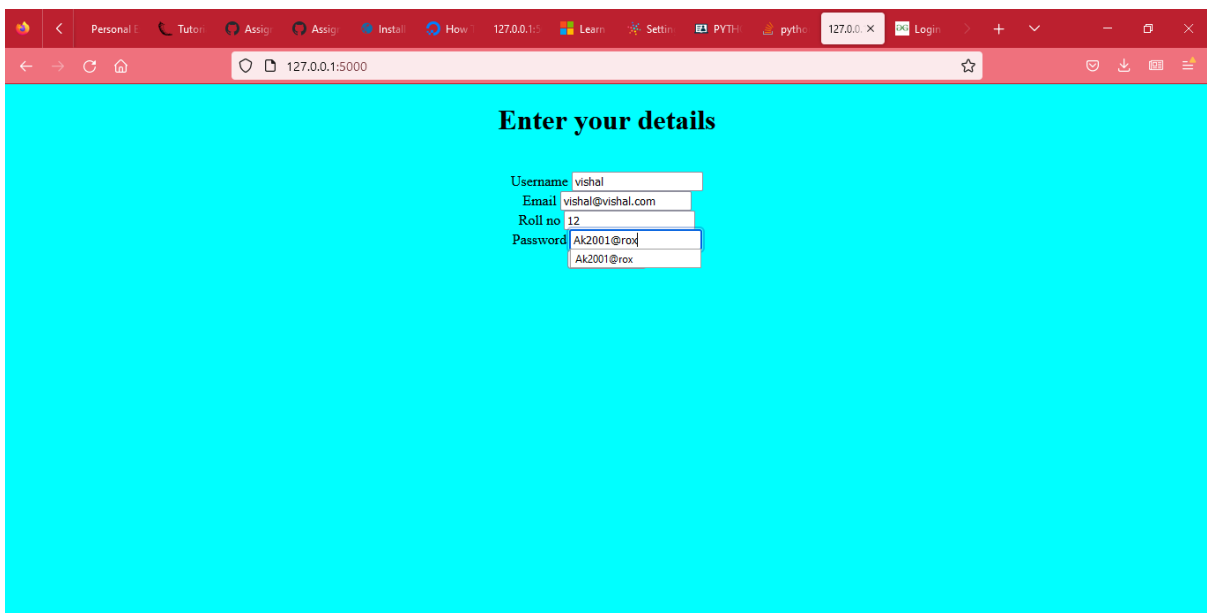
```



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

index.html(for registration):

```
<HTML>
<BODY bgcolor="cyan">
  <form method="POST" action="">
    <center>
      <H1>Enter your details </H1> <br>
      Username <input type="text" name="username" /> <br>
      Email <input type="text" name="email" /> <br>
      Roll no <input type="number" name="rno" /> <br>
      Password <input type="text" name="password" /> <br>
      <input type="submit">
    </center>
  </form>
</BODY>
</HTML>
```



The screenshot shows a web browser window with a red title bar. The address bar shows the URL '127.0.0.1:5000'. The main content area has a cyan background and a black heading 'Enter your details'. Below the heading is a registration form with four input fields: 'Username' (filled with 'vishal'), 'Email' (filled with 'vishal@vishal.com'), 'Roll no' (filled with '12'), and 'Password' (filled with 'Ak2001@rox'). A submit button is at the bottom of the form.

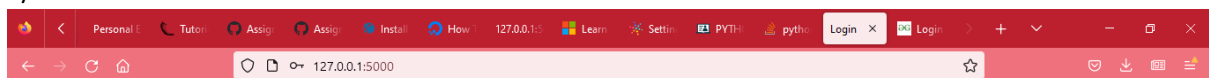
login.html(for login):

```
<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('index')}}">
Sign Up here</a></p>
    </div>
  </div>
</body>
</html>

```



Login

registered successfully

vishal

Sign In

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

welcome.html(welcome page):

```
<!DOCTYPE html>
```

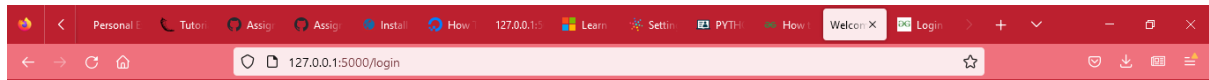
```
<html lang="en" xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
  <meta charset="utf-8" />
```

```
  <title>Welcome {{session.username}}</title>
```

```
</head>
<body>
  <center>
    <H1>Welcome {{session.username}}</H1>
  </center>
</body>
</html>
```



Welcome vishal@vishal.com