

ASSIGNMENT 2

- 1. Create User table with user with email, username, roll number, password.**
- 2. Perform UPDATE,DELETE Queries with user table**
- 3. Connect python code to db2.**
- 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**

CODE:

```
CREATE DATABASE IF NOT EXISTS db2 DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci;
```

```
USE db2;
```

```
CREATE TABLE IF NOT EXISTS table2 (
```

```
    id int(11) NOT NULL AUTO_INCREMENT,
```

```
    username varchar(50) NOT NULL,
```

```
    password1 varchar(255) NOT NULL,
```

```
    email varchar(100) NOT NULL
```

```
    PRIMARY KEY (id)
```

```
)ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8;
```

```
from flask import Flask, render_template, request, redirect, url_for, session
from flask_mysql import MySQL
import MySQLdb.cursors
import re
```

```
app = Flask(__name__)
```

```
#app.config['SECRET_KEY'] = '4e1a98077bac61f4a5846ca3'
app.config['MYSQL_HOST'] = 'localhost'
app.config['MYSQL_USER'] = 'root'
app.config['MYSQL_PASSWORD'] = 'kaya1'
app.config['MYSQL_DB'] = 'db2'
```

```

mysql = MySQL(app)

@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']
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM table2 WHERE username = % s AND password = % s', (username, password, ))
        account = cursor.fetchone()
        if account:
            session['loggedin'] = True
            session['id'] = account['id']
            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']
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM table2 WHERE username = % s', (username, ))
        account = cursor.fetchone()
        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:
        cursor.execute('INSERT INTO table2 VALUES (NULL, % s, % s, % s)',
            (username, password, email, ))
        mysql.connection.commit()
        msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'
    return render_template('register.html', msg = msg)
app.run()

```

```

<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>
```

```
<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>
```

```
<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>

```

```

.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:



