

Assignment -2
User Table Creation

Project Date	OCTOBER 2022
Team ID	PNT2022TMID08073
Project Name	News Tracker Application

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

Solution:

Table Creation:

Base.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>{% block title %H% endblock %}</title>

  <style>
    @import
url('https://fonts.googleapis.com/css2?family=Michroma&di splay=swap');
  </style>
  <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css')
}}"/>
</head>
<body>
  <!-- Nav Bar -->
  <nav>
    <div>
      <h3>User Registration Assignment</h3>
    </div>
  </nav>

  {% with messages = get_flashed_messages(with_categories=true) %}
    {% if messages %}
```

```
{% for category, message in messages %}
    {% if category == "error" %}
        <div class="flash-div">
            <h4>{{ message }}</h4>
        </div>
    {% else %}
        <div class="flash-div success">
            <h4>{{ message }}</h4>
        </div>
    {% endif %}
{% endfor %}
{% endif %}
{% endwith %}

<div class=" main-div">
    {% block main %}
    {% endblock %}
</div>
</body>
</html>
```

Dashboard.html:

```
{% extends 'base.html' %}

{% block title %}
    Dashboard
{% endblock %}

{% block main %}
<div class="form-main-div">
  <div class="table-div">
    <h2>Your Details</h2>
    <table>
      <th colspan="2">
        Welcome
      </th>
      <tr>
        <td>Email</td>
        <td>{{ account['EMAIL'] }}</td>
      </tr>
      <tr>
        <td>UserName</td>
        <td>{{ account['USERNAME'] }}</td>
      </tr>
      <tr>
        <td>Register Number</td>
```

```

        <td>{{ account['NUMBER'] }}</td>
    </tr>
    <tr>
        <td>Password</td>
        <td>{{ account['PASSWORD'] }}</td>
    </tr>
</table>
</div>
</div>
{% endblock %}

```

Login.html:

```

{% extends 'base.html' %}

{% block title %}
    Login
{% endblock %}

{% block main %}
    <div class="form-main-div">
        <div class="form-div">
            <h3>Login</h3>
            <form method="POST">
                <label>Email</label> <br>
                <input class="inputs" type="text" placeholder=" Enter your
email" name="email"/>

                <label>Password</label> <br>
                <input class=" inputs" type=" password" placeholder=" Enter your
password" name=" password"/>

                <button class="submit">Login</button>

            </div>
            <a href="/register">Don't have an account? Create one</a>
        </div>
    </form>
</div>
</div>
{% endblock %}

```

Register.html:

```

{% extends 'base.html' %}

```

```

{% block title %}
    Sign up
{% endblock %}

{% block main %}
    <div class="form-main-div">
        <div class="form-div">
            <h3>Enter all the details</h3>
            <form method="POST">
                <label>Email</label> <br>
                <input class="inputs" type="text" placeholder=" Enter your email"
name=" email"/>

                <label>Username</label> <br>
                <input class="inputs" type="text" placeholder=" Enter your
username" name="username"/>

                <label>Register Number</label> <br>
                <input class="inputs" type="number" placeholder=" Enter your
email" name="number"/>

                <label>Password</label> <br>
                <input class="inputs" type="password" placeholder=" Enter your
password" name="password"/>

                <input class="submit" type="submit"/>

            <div>
                <a href="/">Already have an account? Login</a>
            </div>
        </form>
    </div>
</div>
{% endblock %}

```

__init__.py:

```

from flask import Flask

def create_app():

    app = Flask(__name__)

```

```

app.config['SECRET_KEY'] = "PHqtYfAN2v"

# registering the blue print witg the app

from .views import blue_print

app.register_blueprint(blue_print, url_prefix="/")


return app

```

Views.py:

```

from flask import Blueprint, redirect, render_template, request, flash
import ibm_db
import re # regular expression


blue_print = Blueprint("blue_print", "_name_")

conn = ibm_db.connect(' DATABASE=bludb; HOSTNAME=54a2f15b-Sc0f-46df-8954-7e38e612c2bd.clogj3sd0tgu01qde00.databases.appdomain.cloud;PORT=32733;SECURITY=SSL;SSLServerCertificate=DigiCertGlobal RootCA.crt;UID=tyb34892;PWD=QqSGdhZKREQI 1Vrc', "", "")


@blue_print.route('/', methods = ['GET', 'POST'])
def home():

    if request.method == 'POST':

        # getting the data entered by the user

        email = request.form.get('email')

        password = request.form.get('password')


        # validating the inputs

        if len(email) < 10:

            flash(" Email must be atleast 10 characters long", category="error")


        elif len(password) < 6:

            flash(" Password must be atleast 6 characters long", category="error")

```

else:

checking whether the user with the email exists in the database

sql_check_query="SELECT * FROM user WHERE email=?"

stmt = ibm_db.prepare(conn, sql_check_query)

ibm_db.bind_param(stmt, 1, email)

ibm_db.execute(stmt)

account = ibm_db.fetch_assoc(stmt)

print(account)

if account:

email id exists

checking if the password is correct

if not account['PASSWORD'] == password:

flash('Invalid password', category='error')

else:

user entered the correct password

redirecting the user to the dashboard

return render_template('dashboard.html', account=account)

else:

email id does not exist in the database

flash('Email invalid... Try Again', category='error')

return render_template('login.html')

return render_template('login.html')

```

@blue_print.route('/register', methods = ['GET', 'POST'])
def register():
    if request.method == 'POST':
        # getting the data entered by the user
        username = request.form.get('username')
        email = request.form.get('email')
        number = request.form.get('number')
        password = request.form.get('password')

        # validating the data entered by the user
        if(len(number) < 12):
            flash("Reg. No must be 12 numbers long", category="error")

        elif not re.match(r"[a-zA-Z]*$", username):
            flash(" Use only alphabets in username", category="error")

        elif len(username) < 6:
            flash("Username must be atleast 6 characters long", category="error")

        elif len(password) < 6:
            flash(" Password must be atleast 6 characters long", category="error")

        elif len(email) < 10:
            flash(" Email must be atleast 10 characters long", category="error")

        else:
            # checking whether the user table contains an entry with the email already
            sql_check_query="SELECT *FROM userWHERE email=?"
            stmt = ibm_db.prepare(conn, sql_check_query)
            ibm_db.bind_param(stmt, 1,email)
            ibm_db.execute(stmt)

```

```

account = ibm_db.fetch_assoc(stmt)

# email id does not exist in the database
if not account:

    # inserting the data into the database

    sql_insert_query = "INSERT INTO user (username, email, password, number) VALUES (?, ?,
?, ?)"

    stmt = ibm_db.prepare(conn, sql_insert_query)

    ibm_db.bind_param(stmt, 1, username)

    ibm_db.bind_param(stmt, 2, email)

    ibm_db.bind_param(stmt, 3, password)

    ibm_db.bind_param(stmt, 4, str(number))

    ibm_db.execute(stmt)

# user data has been inserted into the database

# showing login page to the user

flash(' User created successfully! Please Login', category='success')

return redirect('/')

else:

    flash('Email id already exists! Try another one', category='error')

return render_template('register.html')

return render_template('register.html')

@blue_print.route('/dashboard')
def dashboard():

    return render_template('dashboard.html')

```

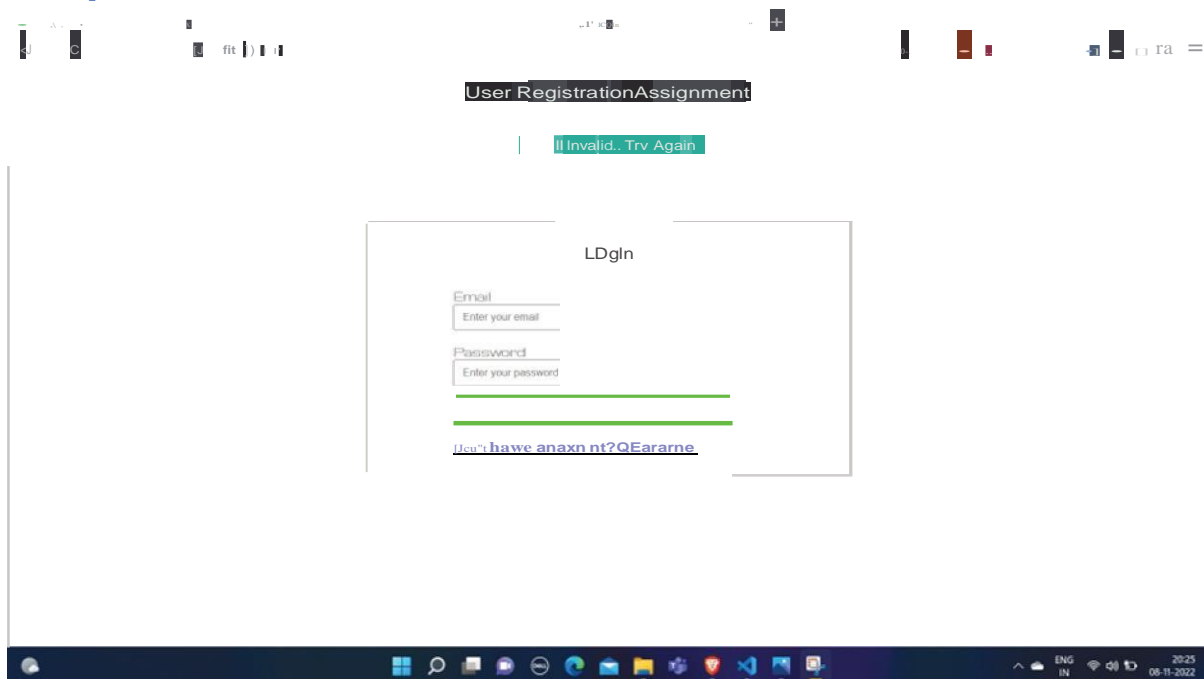

App.py:

```
from registration import create_app
```

```
app = create_app()
```

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

Output:



Enter allthe details

Enter your email

Username

Enter your username

Register Number

Enter your email

Password

Enter your password

Submit

[Already have an account? Login](#)

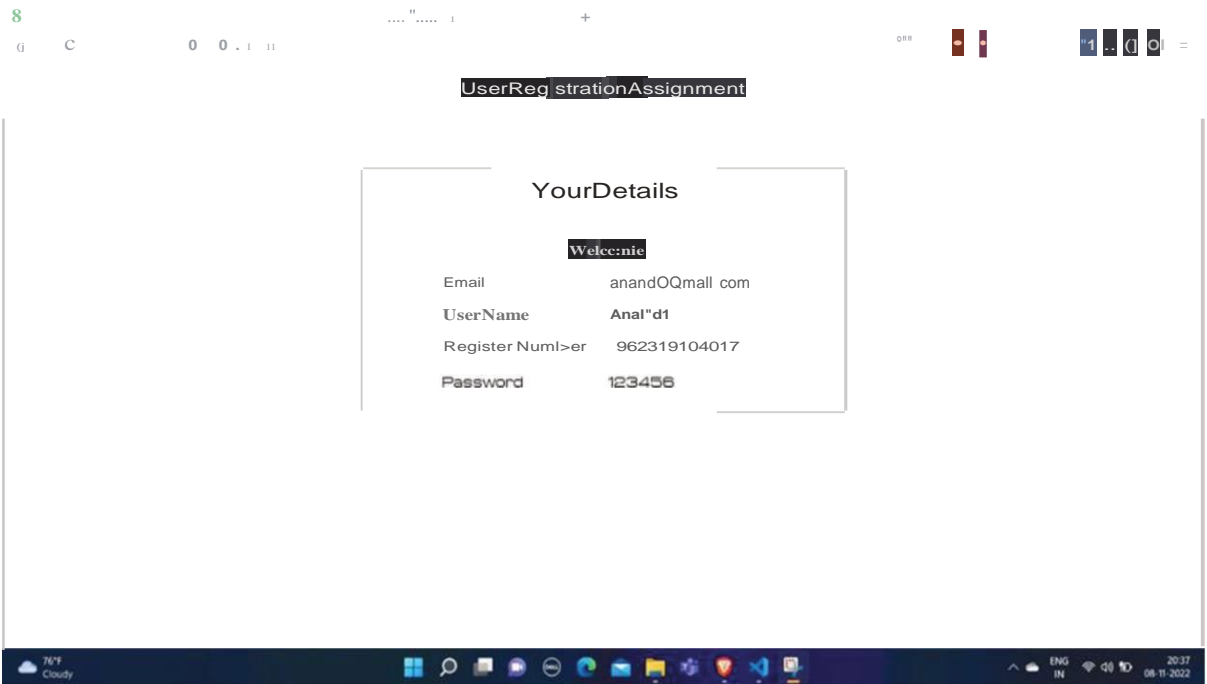
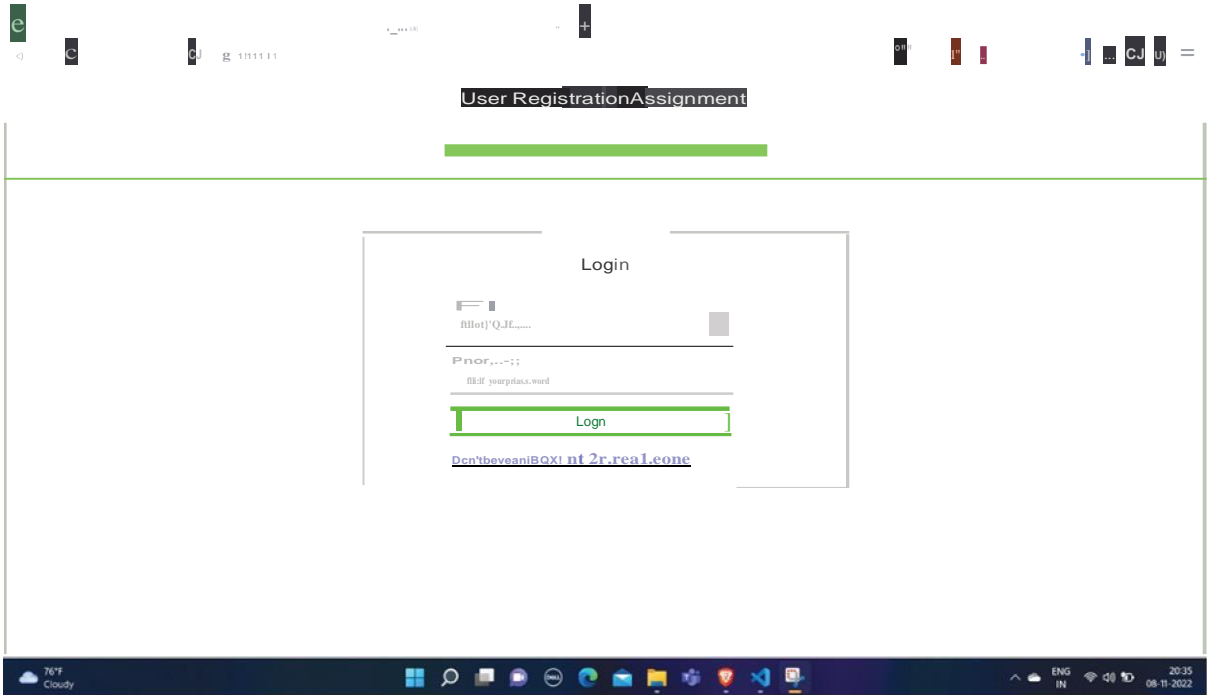
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Filter objects

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Untitled - 1

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1 UPDATE user SET HUI1BU*91B193378355' IJWHERE USER1IA1E*Anandh';

Syntax assistant

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Filter objects

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Syntax assistant

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Result set 1			
Filter table			
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	ajin@gmail.com	12.145(>	01231'110400!
	anand@gmail.com	918W337BJSS	123451

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TYB34892

Filter objects

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1 DELETE FROM us&r "11ERE EHAIL • 'ajin@pacil.c

Syntax assistant

Run all

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SELECT . f uir		0	t.eu s
Untitled - 1	Nov 8, 2022 9:13:14	0 1	e.eel1
UPDATE user SET NUMBER='918W337B355' WHERE USERNAME='Anandh'		0	t.M1 s
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1 SELECT *FROM user;

Syntax assistant

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Results.

Result set 1

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EMAIL

anandmic06@gmail.com

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