Create Flask Project

1) **Installing Flask.**

```
PS C:\Users\JebasHarris\Desktop\Flask> pip install flask
Requirement already satisfied: flask in c:\users\jebasharris\appdata\local\programs\python\python310\lib\site-packages (
2.2.2)
Requirement already satisfied: Jinja2>=3.0 in c:\users\jebasharris\appdata\local\programs\python\python310\lib\site-pack
ages (from flask) (3.1.2)
Requirement already satisfied: Werkzeug>=2.2.2 in c:\users\jebasharris\appdata\local\programs\python\python310\lib\site-
packages (from flask) (2.2.2)
Requirement already satisfied: click>=8.0 in c:\users\jebasharris\appdata\local\programs\python\python310\lib\site-packa
ges (from flask) (8.1.3)
Requirement already satisfied: itsdangerous>=2.0 in c:\users\jebasharris\appdata\local\programs\python\python310\lib\sit
e-packages (from flask) (2.1.2)
Requirement already satisfied: colorama in c:\users\jebasharris\appdata\local\programs\python\python310\lib\site-package
s (from click>=8.0->flask) (0.4.5)
Requirement already satisfied: MarkupSafe>=2.0 in c:\users\jebasharris\appdata\local\programs\python\python310\lib\site-
packages (from Jinja2>=3.0->flask) (2.1.1)
```

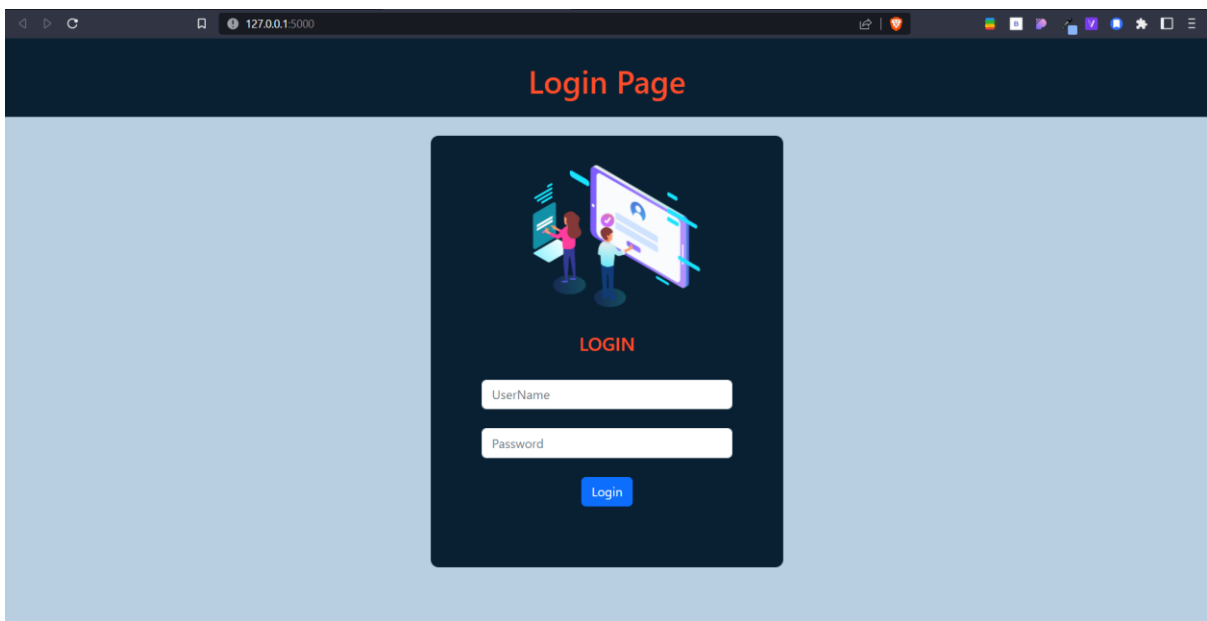2) **Working on Flask and understanding the basics of Flask.**

```python
from flask import Flask, render_template, request, url_for, redirect

app = Flask(__name__)

@app.route('/')
@app.route('/register')
def landingPage():
    return render_template('index.html')

@app.route('/test/<int:tid>')
def register(tid):
    if(tid==1):
        return redirect(url_for('user', id=tid))
    else:
        return redirect(url_for('user', name='Hello'))

@app.route('/home', methods=['POST'])
def home():
    if request.method == 'POST':
        userName = request.form['UserName']
    return render_template('home.html', user=userName)

@app.route('/user/<int:id>', methods=['GET'])
def user(id):
```

```python
    def register(tid):
        if(tid==1):
            return redirect(url_for('user', id=tid))
        else:
            return redirect(url_for('user', name='Hello'))

    @app.route('/home', methods=['POST'])
    def home():
        if request.method == 'POST':
            userName = request.form['UserName']
        return render_template('home.html', user=userName)

    @app.route('/user/<int:id>', methods=['GET'])
    def user(id):
        return 'User ' + str(id) + ' has requested!'

    @app.route('/user/<name>', methods=['GET'])
    def user_by_name(name):
        return 'User ' + name + ' has requested!'

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

3) Running our Flask app.

```
PS C:\Users\JebasHarris\Desktop\Flask> py app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 598-363-678
```

4) Checking the result by following the provided URL.