FLASK LAB-11

Setup a virtual environment for flask(in *VS CODE*):

```
Step1: Open VS code, then Open folder Menu.
Step2: In VS code, Open Desktop create new folder name like ......
Step3: Open Terminal in VS Code.
            Click Manage--> Click Command palette-->
            Then type terminal.
            once terminal opened change into Command prompt.
Step4: Create Virtual environment.
Step5: Install virtual environment.
            >pip install virtualenv
Step6:
            > python -m virtualenv env.....
Step7: activate Virtual environment.
            > env\Scripts\activate.bat
Step8: checking already installed packages.
(env)
          > pip list
step9: install flask in our Virtual environment.
         > pip install flask
step10:checking already installed packages.
(env)
          > pip list
step11: freeze the requirements or dependences
(env)
          >pip freeze>requirements.txt
          >flask run
(env)
           (or)
          >flask --app app.py --debug run
(env)
                                    Example:
app.py
from flask import Flask
app=Flask( name )
@app.route('/')
def helloworld():
        return "CSE-AIML-C"
if name ==' main ':
  app.run()
```

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LAB-12

Using HTML templates create Web App with different menu items

```
ORDER.HTML
```

```
<html>
<head>
<title> APP development lab </title>
</head>
<body bgcolor="red">
<hr> CMRIT Departments <br>
<0l>
CSE 
AIML
DS 
CIVIL
MECH
ECE
<hr> COURSES <br>
ul>
DBMS
APP
JAVA
Python
Mathematics
</body>
</html>
app.py
from flask import Flask, request, render_template
import pickle
app=Flask(__name__)
@app.route('/')
def hello_world():
return render_template("order.html")
if __name__=='_main_':
app.run()
```

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LOGIN.HTML

```
<html>
<body>
<form action = "http://localhost:5000/login" method = "post">
Enter Name:
<input type = "text" name = "nm" />
<input type = "submit" value = "submit" />
</form>
</body>
</html>
```

app.py

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

app = Flask(__name__)

@app.route('/success/<name>')

def success(name):
    return 'welcome %s' % name

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

def login():
    if request.method == 'POST':
        user = request.form['nm']
    return redirect(url_for('success',name = user))

else:
    user = request.args.get('nm')
    return redirect(url_for('success',name = user))

if __name__ == '__main__':

app.run(debug = True)
```

LOGIN.HTML

```
<html>
<body bgcolor="orange">
<form action="/form_login" method="post">
    <h2> Username: <br>
    <input type="text" name='Username'>
    <h2> Password: <br>
    <input type="text" name='Password'>
    <br>
    <input type="Submit "value="Login">
  </form>
  <h1> {{info}}</h1>
</body>
</html>
home.HTML
<html>
<body bgcolor="red">
<br>
<h1 align="center"> Welcome {{name} </h1>
</body>
</html>
app.py
from flask import Flask, request,render_template
import pickle
app=Flask(__name__)
@app.route('/')
def hello_world():
  return render_template("login.html")
database={'cmrit':'123','mallareddy':'abc','hyd':'abc'}
@app.route('/form_login',methods=['POST','GET'])
def login():
  name1=request.form['Username']
  ,mpwd=request.form['Password']
  if name1 not in database:
  return render_template('login.html',info='Invaild User')
  else:
    if database[name1]!=pwd:
    return render_template('login.html',info='Invaild Password')
    else:
    return render_template('home.html',name=name1)
  if __name__=='_main_':
    app.run()
```

```
app.py
from flask import Flask, request, render_template
app = Flask(__name__)
def load_questions():
  questions = {}
  with open('python_questions.txt', 'r') as file:
    lines = file.readlines()
    for line in lines:
       question, answer = line.strip().split('|||')
       questions[question.strip()] = answer.strip()
  return questions
python_questions = load_questions()
@app.route('/')
def chatbot_page():
  return render_template('chatbot.html')
@app.route('/ask', methods=['POST'])
def answer_question():
  user_question = request.form.get('user_question')
  if user_question in python_questions:
    answer = python_questions[user_question]
  else:
    answer = "Sorry, I don't know the answer to that question."
  return render_template('chatbot.html', user_question=user_question, answer=answer)
if __name__ == '__main__':
  app.run(debug=True)
chatbot.html
<html>
<body>
    <h1> Python Chatbot </h1>
    <form action="/ask" method="post">
       <input type="text" name="user_question">
       <input type="submit" name="submit">
    </form>
 {% if user_question %}
    <h3>Your Question:</h3>
    {{ user_question }}
    <h3>Answer:</h3>
    {{ answer }}
    {% endif %}
</body>
</html>python_questions.txt
```

What is Python? ||| Python is a high-level programming language.