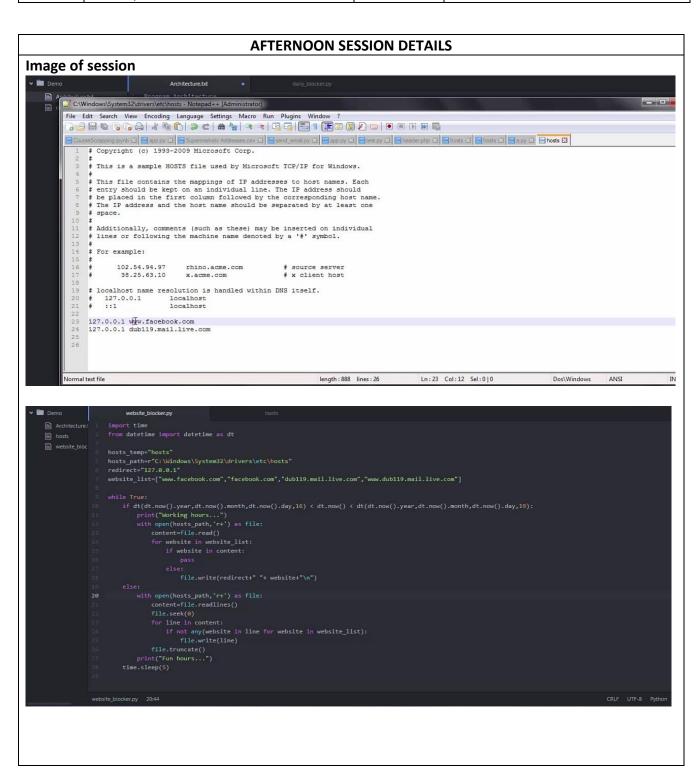
# **DAILY ASSESSMENT FORMAT**

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Course:	UDEMY	USN:	4AL16EC077
Topic:	PYTHON:	Semester	8 <sup>th</sup> - B
	Application 4: Build a personal Website	& Section:	
	with Python and Flask		



# Report: Code1: from flask import Flask app = Flask(\_\_name\_\_) @app.route("/") def home(): return "Hello, World!" @app.route("/salvador") def salvador(): return "Hello, Salvador" if \_\_name\_\_ == "\_\_main\_\_": app.run(debug=True)

We will write code that will take care of the server-side processing. Our code will receive requests. It will figure out what those requests are dealing with and what they are asking. It will also figure out what response to send to the user. It makes the process of designing a web application simpler. Flask lets us focus on what the users are requesting and what sort of response to give back.

HTTP is the protocol for websites. The internet uses it to interact and communicate with computers and servers. Let me give you an example of how you use it every day.

When you type the name of a website in the address bar of your browser and you hit enter. What happens is that an HTTP request has been sent to a server.

For example, when I go to my address bar and type google.com, then hit enter, an HTTP request is sent to a Google Server. The Google Server receives the request and needs to figure how to interpret that request. The Google Server sends back an HTTP response that contains the information that my web browser receives. Then it displays what you asked for on a page in the browser.

```
Code2:
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <title>About Flask</title>
 </head>
 <body>
  {% extends "template.html" %}
  {% block content %}
  <h1> About Flask </h1>
   Flask is a micro web framework written in Python.
   Applications that use the Flask framework include Pinterest,
   LinkedIn, and the community web page for Flask itself.
  {% endblock %}
 </body>
</html>
Code3:
Linking our CSS with our HTML file
<!DOCTYPE html>
<html lang="en" dir="ltr">
 <head>
  <meta charset="utf-8">
  <title>Flask Parent Template</title>
  <link rel="stylesheet" href="{{ url_for('static', filename='css/template.css') }}">
</head>
```

```
<body>
 <header>
  <div class="container">
   <h1 class="logo">First Web App</h1>
   <strong><nav>
    <a href="{{ url for('home') }}">Home</a>
     <a href="{{ url_for('about') }}">About</a>
    </nav></strong>
  </div>
 </header>
{% block content %}
{% endblock %}
</body>
</html>
```

### Why use virtualenv?

You may use Python for others projects besides web-development. Your projects might have different versions of Python installed, different dependencies and packages. We use virtualenv to create an isolated environment for your Python project. This means that each project can have its own dependencies regardless of what dependencies every other project has.

### **Deploy Your Web Application to the Cloud:**

To deploy our web application to the cloud, we will use Google App Engine (Standard Environment). This is an example of a Platform as a Service (PaaS). PaaS refers to the delivery of operating systems and associated services over the internet without downloads or installation. The approach lets customers create and deploy applications without having to invest in the underlying infrastructure (More info on PaaS check out TechTarget).

## **Activating the virtual environment:**

Now go to your terminal or command prompt. Go to the directory that contains the file called activate. The file called activate is found inside a folder called Scripts for Windows and bin for OS X and Linux.

# The Application:

Now check the URL of your application. The application will be store in the following way:

"your project id".appspot.com

### **Conclusion:**

- Use the framework called Flask to use Python as a Server Side Language.
- Learned how to use HTML, CSS, and Flask to make a website.
- Learned how to create Virtual Environments using virtualenv.
- Use Google App Engine Standard Environment to deploy an application to the cloud.