

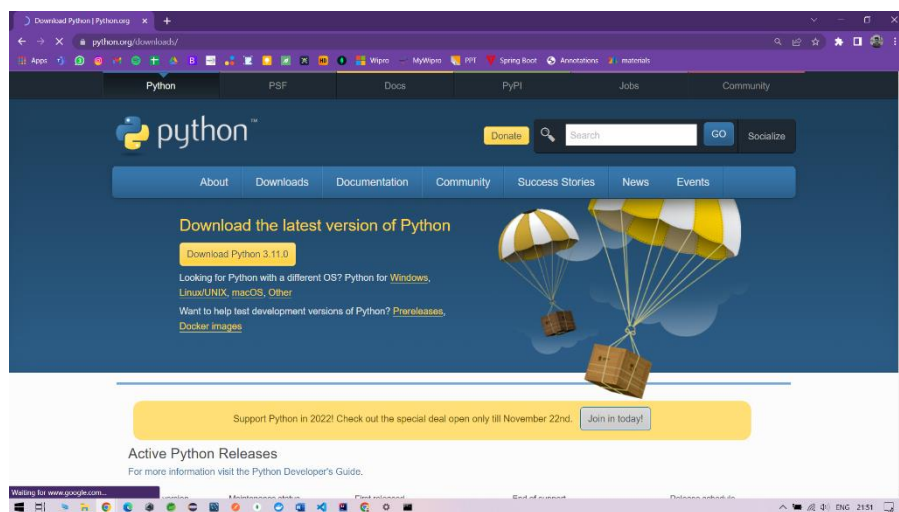
SETTING UP APPLICATION ENVIRONMENT

CREATE FLASK PROJECT

Date	10 th October 2022
Team ID	PNT2022TMID11825
Project Name	News Tracker Application

SETTING UP OF PROJECT ENVIRONMENT

Step 1: Install Python (3.11.x),pip,IDLE



Step 2: Verification of Installation

```
C:\ Command Prompt (1)
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\moule>python --version
Python 3.11.0

C:\Users\moule>
```



```
IDLE Shell 3.11.0
File Edit Shell Debug Options Window Help
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> print('Welcome to IBM')
Welcome to IBM
>>>
```

Step 3: Installing Flask

Install flask using command: `py -m pip install flask`

```
Command Prompt (1)
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\moule>pip install flask
Requirement already satisfied: flask in d:\python\lib\site-packages (2.2.2)
Requirement already satisfied: Werkzeug>=2.2.2 in d:\python\lib\site-packages (from flask) (2.2.2)
Requirement already satisfied: Jinja2>=3.0 in d:\python\lib\site-packages (from flask) (3.1.2)
Requirement already satisfied: itsdangerous>=2.0 in d:\python\lib\site-packages (from flask) (2.1.2)
Requirement already satisfied: click>=8.0 in d:\python\lib\site-packages (from flask) (8.1.3)
Requirement already satisfied: colorama in d:\python\lib\site-packages (from click>=8.0->flask) (0.4.6)
Requirement already satisfied: MarkupSafe>=2.0 in d:\python\lib\site-packages (from Jinja2>=3.0->flask) (2.1.1)

C:\Users\moule>
```

Step 4: Verification of Flask installation

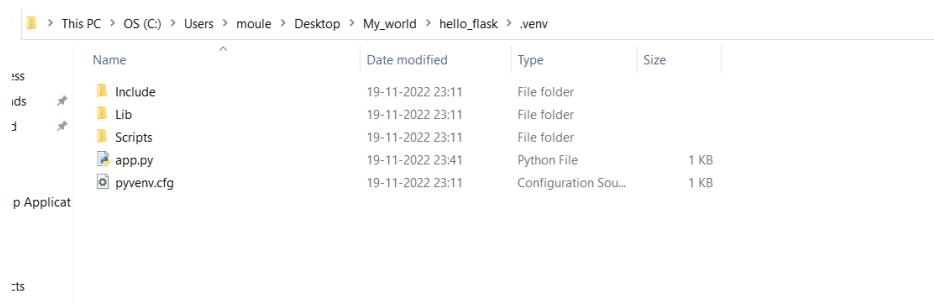
```
Command Prompt (1)
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\moule>flask --version
Python 3.11.0
Flask 2.2.2
Werkzeug 2.2.2

C:\Users\moule>
```

CREATION OF FLASK PROJECT

a) Folder structure



Name	Date modified	Type	Size
Include	19-11-2022 23:11	File folder	
Lib	19-11-2022 23:11	File folder	
Scripts	19-11-2022 23:11	File folder	
app.py	19-11-2022 23:41	Python File	1 KB
pyenv.cfg	19-11-2022 23:11	Configuration Sou...	1 KB

b) app.py file

```
from flask import Flask

app = Flask(__name__)
@app.route("/")
def hello():
    return "Hello, World"
if __name__ == '__main__':
    app.run()
```

The screenshot shows the Visual Studio Code interface with the 'app.py' file open in the editor. The file contains the following code:

```
1 from flask import Flask
2 app = Flask(__name__)
3 @app.route("/")
4 def hello():
5     return "Hello,World"
6 if __name__ == '__main__':
7     app.run()
```

The Explorer sidebar on the left shows the project structure with folders 'HELLO_FLASK', '.venv', and 'Scripts'. The 'Scripts' folder is expanded, showing files like 'activate', 'activate.bat', 'deactivate.bat', 'pip.exe', 'pip3.10.exe', 'pip3.11.exe', 'pip3.exe', 'python.exe', 'pythonw.exe', 'app.py', and 'pyvenv.cfg'. The 'app.py' file is selected.

The Terminal panel at the bottom shows the command '[Running] python -u "c:\Users\moule\Desktop\My_world\hello_flask\.venv\app.py"' and the output:

```
* Serving Flask app 'app'
* Debug mode: off
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
```

c) Template file(hello.html)

The screenshot shows the Visual Studio Code interface with the 'hello.html' file open in the editor. The file contains the following HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="UTF-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width,initial-scale=1.0">
7     <title>About</title>
8 </head>
9 <body>
10     <h1>Creation of Flask Application</h1>
11 </body>
12 </html>
```

The Explorer sidebar on the left shows the project structure with folders 'ASSIGNMENT_3', '_pycache_', 'static', and 'templates'. The 'templates' folder is expanded, showing files like 'delete.html', 'hello.html', 'index.html', and 'upload.html'. The 'hello.html' file is selected.

d) Terminal run : app.py file

The screenshot shows the Visual Studio Code interface with the 'app.py' file open in the editor. The file contains the following code:

```
1 from flask import Flask
2 app = Flask(__name__)
3 @app.route("/")
4 def hello():
5     return "Welcome to IBM"
6 if __name__ == '__main__':
7     app.run()
```

The Explorer sidebar on the left shows the project structure with folders 'HELLO_FLASK', '.venv', and 'Scripts'. The 'Scripts' folder is expanded, showing files like 'activate', 'activate.bat', 'deactivate.bat', 'pip.exe', 'pip3.10.exe', 'pip3.11.exe', 'pip3.exe', 'python.exe', 'pythonw.exe', 'app.py', and 'pyvenv.cfg'. The 'app.py' file is selected.

The Terminal panel at the bottom shows the command '[Running] python -u "c:\Users\moule\Desktop\My_world\hello_flask\.venv\app.py"' and the output:

```
* Serving Flask app 'app'
* Debug mode: off
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
```

e) Application

