Creating a Hello World REST API with Python and Flask

Skills Network

Estimated Time Needed: 30 mins

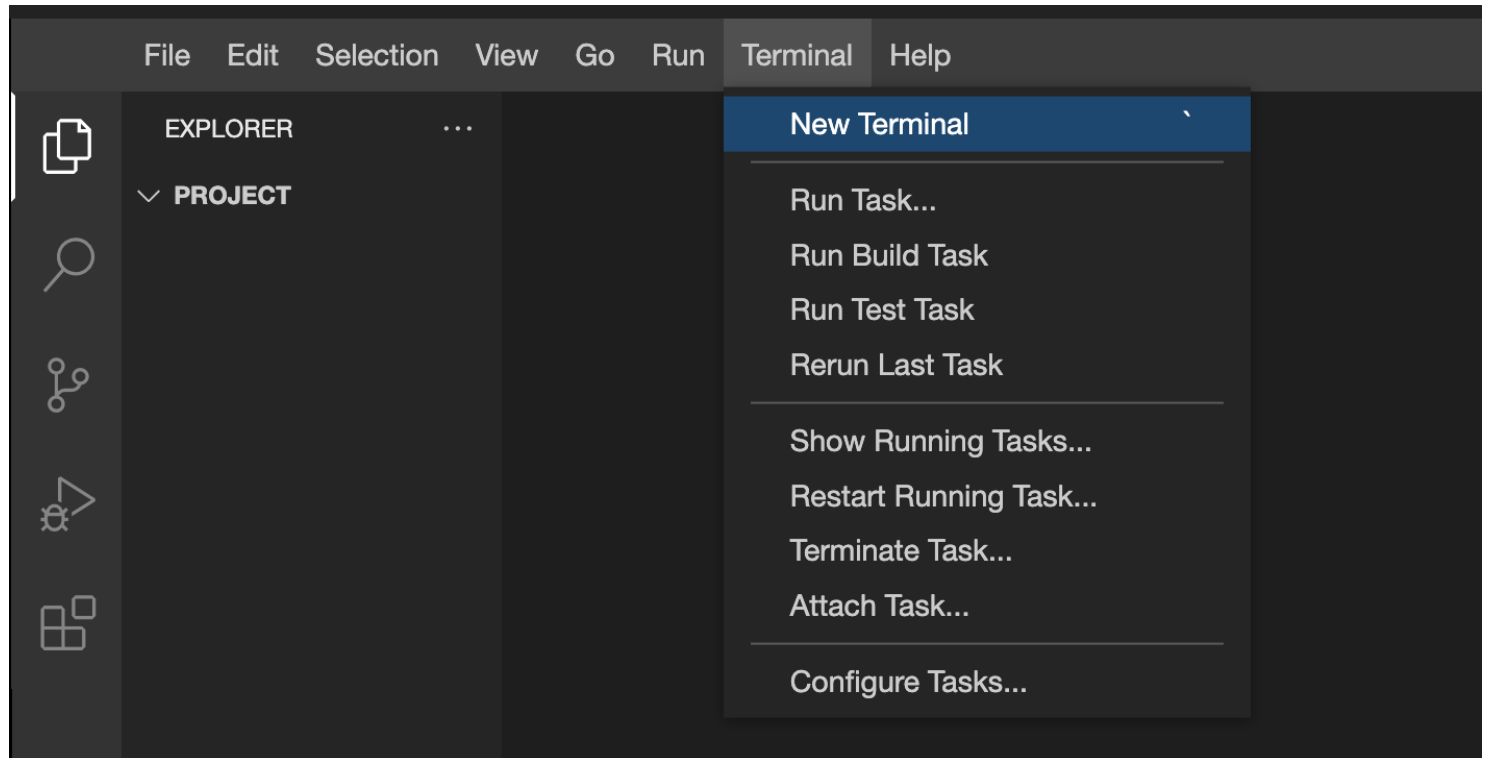In this lab you will create your first REST API `Hello World` application using the Flask.

Learning Objectives

After completing this lab:

- You will be able to create a simple web application using Flask.
- You will be able to access the REST API endpoints of your application through the browser.

Set Up a Flask Server

1. Open a new Terminal in the lab environment.

2. Now you will write a Python code that will act as a web application serving REST API endpoint that returns the string `Hello World`. Run the following command to create a file named `server.py` and the click the button below to edit the content of the file..

```
1. 1
```

```
1. touch /home/project/server.py
```

Copied! Executed!

Open **server.py** in IDE

3. Paste the following code in server.py and save the file.

```
 1. 1
 2. 2
 3. 3
 4. 4
 5. 5
 6. 6
 7. 7
 8. 8
 9. 9
10. 10
11. 11
```

```
 1. from flask import Flask
 2.
 3. app = Flask("My Hello World Application")
 4.
 5. @app.route("/")
 6. def hello():
 7.     return "Hello World!"
 8.
 9. if __name__=="__main__":
10.     app.run(debug=True)
11. # When no port is specified, starts at default port 5000
```

Copied!

4. Before you run this web application, you need to install the packages that are required for the application to run. On the terminal, run the following command to install the packages.

```
1. 1
```

```
1. python3 -m pip install flask
```

[Copied!] [Executed!]

This will take a few seconds to install.

5. Once the flask package is installed, run `server.py` to start a server which is listening at port `5000` and serving a REST API endpoint at the root `/` that returns the string `Hello World!`.

```
1. 1
```

```
1. python3 server.py
```

[Copied!] [Executed!]

6. To access the REST API endpoint through the browser, click the following button, which will open a new browser page with the string that is transferred back by the server application.

[Hello World Application]

Congratulations! You just created your first REST API with Python and Flask.

Author(s)

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Changelog

Date	Version	Changed by	Change Description
2022-11-16	0.1	Lavanya T S	Initial version created
2022-11-25	0.2	Steve Hord	QA pass edits