

Installation of Python Flask

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives

In this tutorial, we will learn to



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In this tutorial, we will learn to

- **Create a Virtual Environment**



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- **Activate and deactivate the Virtual Environment**



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- **Install packages inside the Virtual Environment**



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In this tutorial, we will learn to

- **Create a Virtual Environment**
- **Activate and deactivate the Virtual Environment**
- **Install packages inside the Virtual Environment**
- **Launch a Flask application**



System Requirements



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- **Ubuntu Linux 16.04 OS**



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- **Python 3.5.2**



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- **Atom text editor 1.22.1**



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- **Python 3.5.2**
- **Atom text editor 1.22.1**
- **Firefox Web Browser**



System Requirements

- Ubuntu Linux 16.04 OS
- Python 3.5.2
- Atom text editor 1.22.1
- Firefox Web Browser
- Working Internet connection



Pre-requisites

- You should have working knowledge on Linux commands and basic Python programming



Pre-requisites

- You should have working knowledge on Linux commands and basic Python programming
- If not, then please go through the corresponding tutorials on <http://spoken-tutorial.org>



Virtual Environment

- **A virtual environment is a self-contained directory tree**



Virtual Environment

- **A virtual environment is a self-contained directory tree**
- **It contains a Python installation for a particular version of Python**



Virtual Environment

- **A virtual environment is a self-contained directory tree**
- **It contains a Python installation for a particular version of Python**
- **Additional packages can be installed inside the virtual environment**



Virtual Environment

- **Venv is the short form for virtual environment**



Virtual Environment

- Venv is the short form for virtual environment
- Venv is used to avoid conflict between different Python installations



Virtual Environment

- For every project, we can have a separate `Venv`



Virtual Environment

- For every project, we can have a separate `Venv`
- We will install `Venv` via a package called `pip`



- pip **is** a package manager **program**



pip

- pip **is a** package manager **program**
- **Used to install, upgrade, and remove** Python packages



pip

- pip **is a** package manager **program**
- **Used to install, upgrade, and remove** Python packages
- pip3 **is the Python3 version of** pip



pip installation

- To check if `pip3` is already installed, type the following command in the terminal:
`pip3 --version`



pip installation

- To check if `pip3` is already installed, type the following command in the terminal:
`pip3 --version`
- If it gives a version number, then you don't need to install it again



pip installation

- **Else, install pip3 using the following command in the terminal:**

```
sudo apt install python3-pip
```



Summary

In this tutorial we learnt to

- **Create a Virtual Environment**
- **Activate and deactivate the Virtual Environment**
- **Install Flask**
- **Launch Hello world in Flask**



About the Spoken Tutorial Project

- Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates on passing online test
- For more details, please write to contact@spoken-tutorial.org



Forum for specific questions

- Do you have questions in THIS Spoken Tutorial?
- Please visit <http://forums.spoken-tutorial.org>
- Choose the minute and second where you have the question
- Explain your question briefly
- Someone from our team will answer them



Forum for specific questions

- The Spoken Tutorial forum is for specific questions on this tutorial
- Please do not post unrelated and general questions on them
- This will help reduce the clutter
- With less clutter, we can use these discussion as instructional material



Acknowledgements

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- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>



Thank You

Thanks for joining
<http://spoken-tutorial.org>

