**Developing Web Applications with Flask**

**Duration:** 2 days

**Overview**

Flask Training: Developing Web Applications with Flask course teaches Python developers to create professional web applications with the Flask micro-framework.

**Prerequisites**

All attendees must have basic Python programming skills and an understanding of HTML fundamentals.

**Materials**

All attendees receive comprehensive courseware and a textbook.

**Software Needed on Each Student PC**

* Any Windows, Linux, or macOS operating system
* Python 3.x installed with PIP 3
* Postman (https://www.postman.com)
* A text editor or IDE (VS Code or PyCharm Community Edition recommended)
* Git (Optional)

**Objectives**

* Create complete Flask applications
* Design Jinja templates
* Integrate a SQLite/MySQL database
* Test and debug Flask applications

**Outline**

**DAY-1 (Basics + Simple Web Applications)**

* Introduction to Web Applications (MVC)
* Virtual Environments
* Flask Installation (venv)
* Create First Flask Application
* Create Routes
* Testing with Postman
* Templates
* Create Sample Flask Apps
* Database Integration with flask-sqlalchemy
* Create Sample Flask Apps

**DAY-2 (Create Web Applications + Try Web Apps from GitHub)**

* Downloading any Flask App from Github
* Try to understand the application
* Try to enhance the application