Course - Mastering Web Development using Flask training

We would like to use PyCharm IDE for the flask Training and we do not want a new environment (Cloud9 IDE). And we will use conda as environment manager.

**Introduction to Flask – All the topics**

A Minimal Application

Debugging

Routing

Using url\_for

The GET method

The POST method

Introduction to Templates

The Login Template

The Login Function

Redirect After Post

Flash Messages

Better HTML

Template Inheritance

Calling Block Super

Introduction to Cookies

The Static Folder

Introduction to Sessions

Logging

ORM Concepts

ORM transactions

Caching

REST API

**Our First Flask application: Flask Blog Important: Use This Requirements.txt File!**

Introduction

The Basic Structure

Setting up the ORM

The Author Model

Interacting with the ORM

The Base Template and Bootstrap – Advanced UI

Introduction to WTForms

Handling Form Errors

Template Macros

The Blog Model and Form

Blog Admin and Setup Templates

Blog Creation Database

Author Login

Our First Decorator

Introduction to Migrations

More Secure Passwords- Advanced, have not tried before

Checking Is Author

The Post and Category Models

Post Migration and Testing

Introduction to Markdown

Blog Post Form

Saving the Post to the Database

The Article View– Advanced UI

List Articles View– Advanced UI

Creating a Footer– Advanced UI

Pagination

Setting up Flask-Uploads

Adding Images to Blog Posts

Displaying the Image in the Article

Deleting an Article

Editing an Article

**Unit Testing – All topics**

Introduction to Unit Testing

Create Blog Test

User Tests

Final Project

Final Project Instructions

**Bonus Section: Running Our Flask Application with Docker – All topics**

Docker Introduction

Docker Installation

Running Docker

Docker Images and Containers

Interacting with the MySQL Container

Preparing our Dockerfile

Creating the Flask Blog Container

Editing Files

Setting up the Database

Running the Application

**Bonus Section: Deploying our Application to a Cloud Server**

Introduction to Cloud Providers

Create a Digital Ocean Account

Root Privileges

Public Key Authentication

SSH Daemon

Setting Up a Firewall – Have not done on cloud but can show configuration in Linux

Nginx and MariaDB Installation - Oracle installation and Nginx

SCP Files – No Knowledge of it

Virtualenv and PIP

The WSGI File

Database Setting and Migration