

Fusemachines Training

Flask, MongoDB

Sushil Shakya
Sushil Thapa

Timeline

- a. 10 minutes (Flask introduction)
- b. 10 minutes (Mongo introduction)
- c. 15-20 minutes (Mongo installation and mongo shell)
- d. 10 minutes (general topics, virtual environment, pymongo version issue)
- e. 20-30 minutes (Flask app cloning and explanation)
- f. 5 minutes (Closing)

Intro to Flask

1. Stacks of Web Development (Frontend/Backend)
2. Backend overview / REST
3. HTTP Verbs and CRUD
 - a. GET
 - b. POST
 - c. PUT
 - d. DELETE
4. Routes
5. Request and Response
6. Webserver (WSGI/Gunicorn)

Intro to mongo database

1. Types of DB (Relational / Non-Relational)
2. Basics
 - a. Documents
 - b. Collections
 - c. Mongo Shell
 - d. DB Authentication
3. CRUD Operations (Pymongo)
4. Studio3T / Compass

General Points

1. Pymongo Versions (use ==2.8 for accessing remote DB)
2. Flask run
3. Postman / CURL
4. Pipenv, Virtualenv (Environment Management)

Hands on

1. Clone the git repo
2. Create a virtual environment
`virtualenv --python=/usr/bin/python3.6 .venv`
3. Activate virtual environment
`source .venv/bin/activate`
4. Install the requirements (flask and pymongo)
`pip install -r requirements.txt`
5. Create apis for CRUD operations in MongoDB using pymongo
6. Run the application server