# **Fusemachines Training**

Flask, MongoDB

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### **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

- Stacks of Web Development (Frontend/Backend)
- Backend overview / REST
- 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

- 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
- Create a virtual environment virtualenv --python=/usr/bin/python3.6 .venv
- 3. Activate virtual environment source .venv/bin/activate
- 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