BUILD DOCUMENTATION

1.Whole Components Running:

- ***Pre-Requisite***

    Docker installed and configured.

    `docker —version` ~ Docker version 24.0.6

    `docker compose version` ~ Docker Compose version v2.23.0-desktop.1

- ***Clone the repo:***

    git clone https://github.com/amosproj/amos2023ws04-pipeline-manager.git

    Navigate to the main root folder using: *cd amos2023ws04-pipeline-manager*

- ***Setting Up Workspace:***

    As we have secrets in the backend app, we need to copy the template env to an ***.env***

    cp src/backend/.env.template src/backend/.env

    cp src/backend/client_secrets.template.json src/backend/client_secrets.json

    And then configure the environment variables to connect to your ASW connections.

- **Building and Running Application:**

    To build the images:

    docker compose build

    And then in order to get the system up and running, execute the following:

    docker compose up -d # in detached mode

    For the first time it will take a while to download and configure. Later it will be faster.

2.FrontEnd angular Running:

Pre-Requisite:

node version ~ 21.1.0

Npm version ~ 10.2.3

- Install angular locally check that npm is installed by running

  npm --version

- Install Angular cli using version 16.2.10.

  sudo npm i @angular/cli@16.2.10

- Install the required packages

  npm install

- For running the application

  ng serve

- The frontend should be visible on : http://localhost:4200/

2.Backend Flask Running:

- ### *Prerequisite:*

  Install the required packages from **requirements.txt** file

  pip install <package_name>

- ### *Environment variables:*

  You need the following environment variables in following files

  cp src/backend/.env.template src/backend/.env

  cp src/backend/client_secrets.template.json src/backend/client_secrets.json

- ### *Running the API*

Navigate to the *src/backend directory.* In your terminal, type:

python app.py

The backend should be running on : http://localhost:5000

3. Data pipeline:

This can be started individually with following command by going into the data pipeline folder in the src

docker compose up