

Internals of Application Server



Group No. 1

APP PACKAGE MODEL

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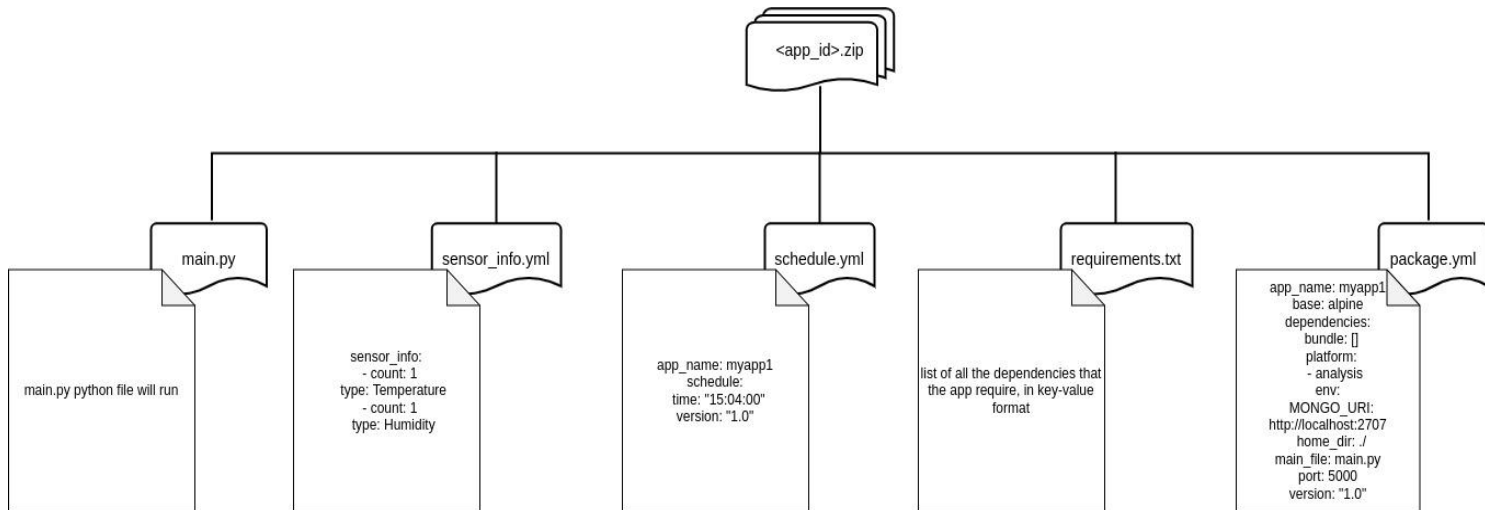
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App Zip Info

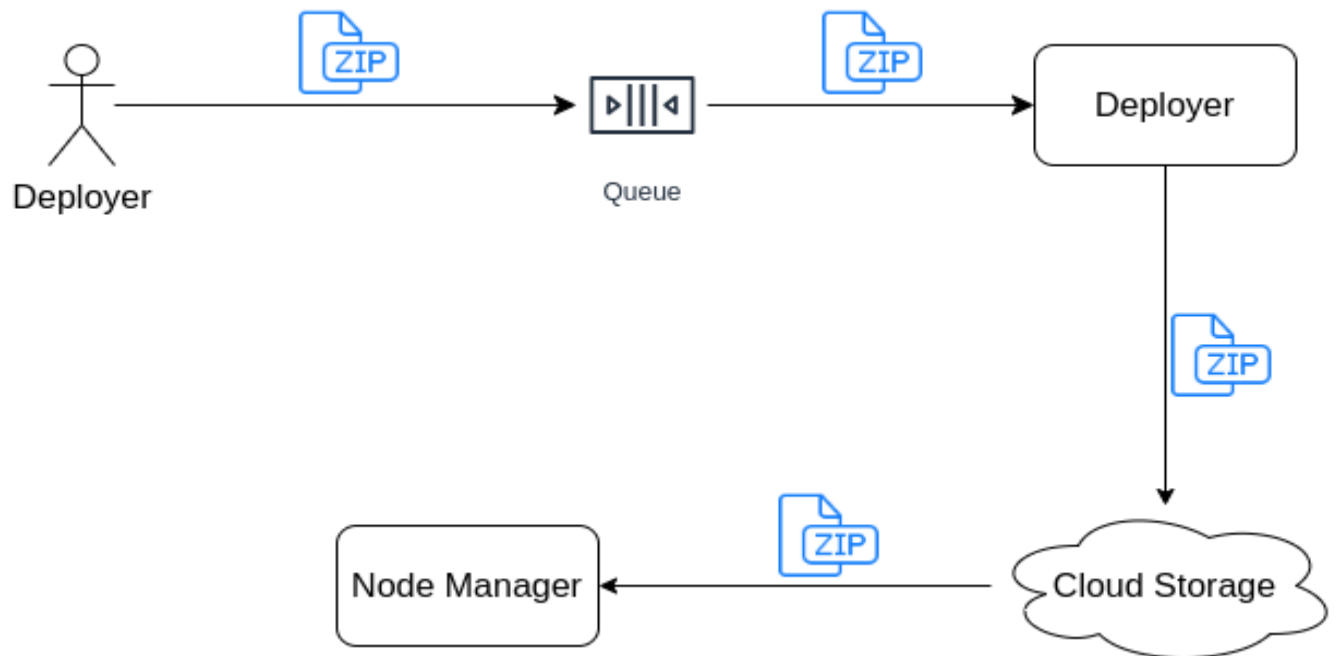
A basic example of the data that is contained inside the <app_id>.zip folder that the user will upload to deploy their application.



The user (App Developer) when wants to deploy their application on our platform they will have to upload a zip file containing the following files:

- **main.py** : It is the python script that will execute first on our platform which defines the application.
- **sensor_info.yml** : This is another mandatory file that the user has to upload in the zip folder. This file will contain the sensor detail that the application will use and the count which defines the number of instances of that particular sensor the app requires.
- **schedule.yml** : This file contains the scheduling information for the application. It will contain the app_name with the scheduled timing when the application is supposed to be deployed on our platform.
- **requirements.txt** : This .txt file contains the information regarding the list of all dependencies that the application will require.
- **package.yml** : This file contains the configuration information for the application. It contains information like application name, docker image information, dependencies that the application requires to run, database storage uri (where the application can store its data), port information etc.

Info where the <app_id>.zip goes:



- The zip folder when uploaded, it first goes to the queue from where the deployer will get the app files.
- The deployer then uploads the file to the cloud storage for future access.
- The zip is then accessed by the Node Manager while assigning VM for the application.