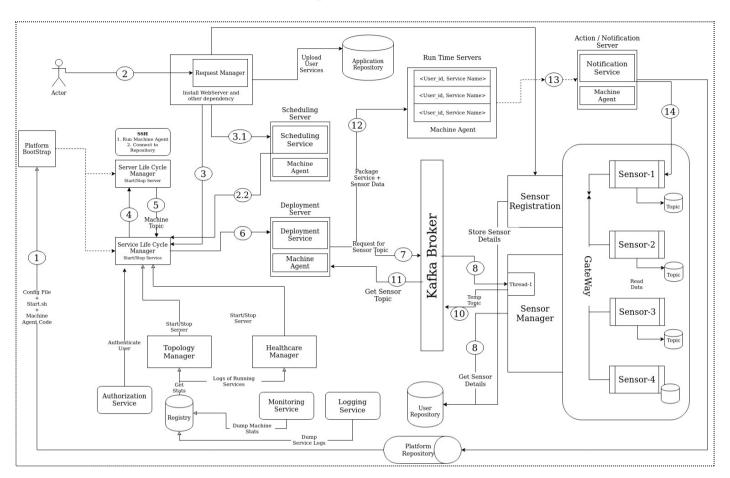
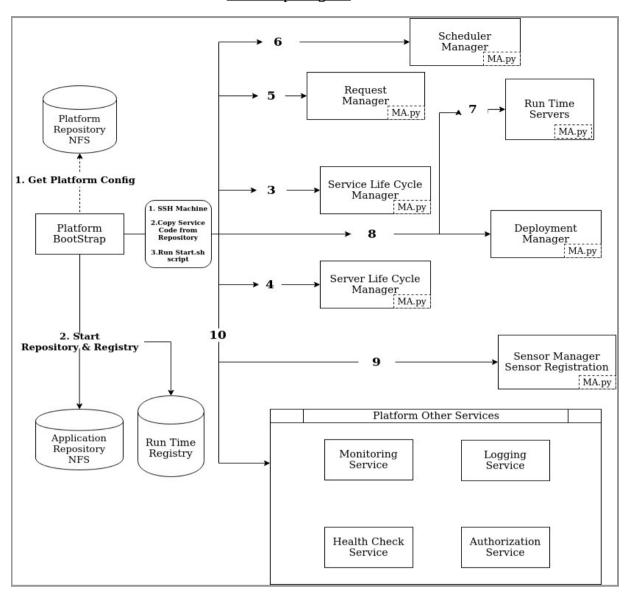
Internals of Application Server Project Design Group-1:

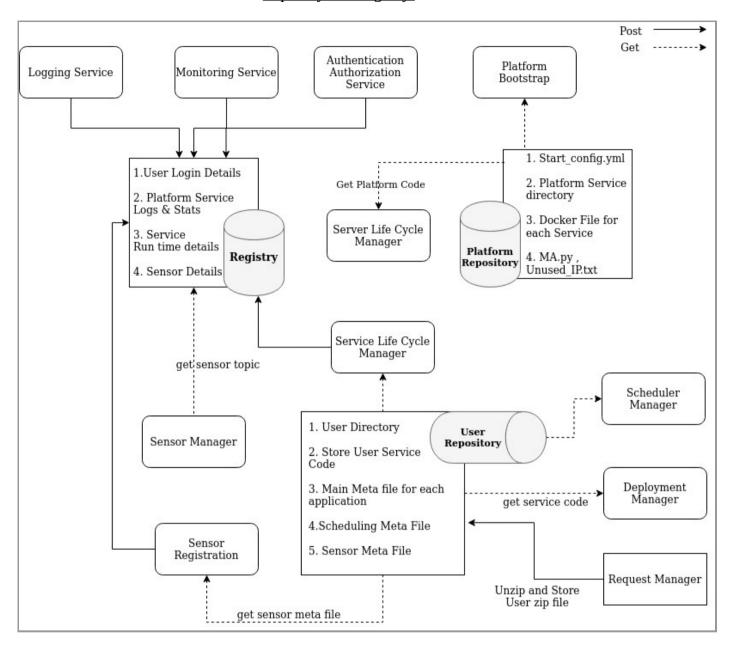
Big Picture



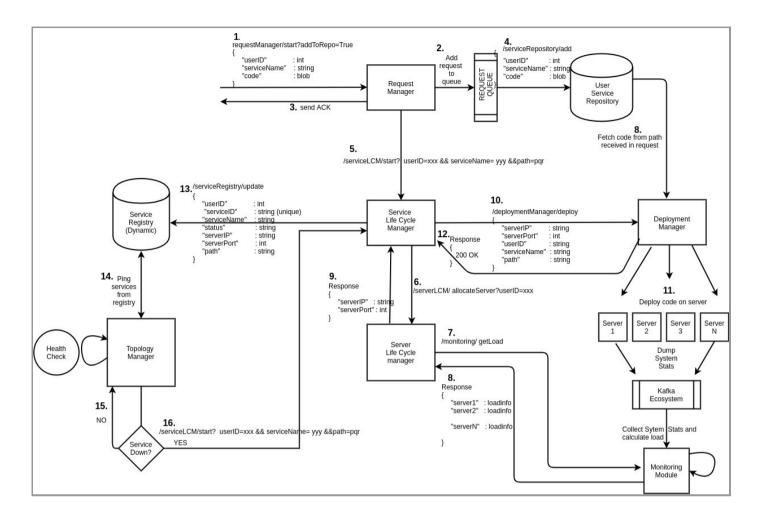
BootStrap Program

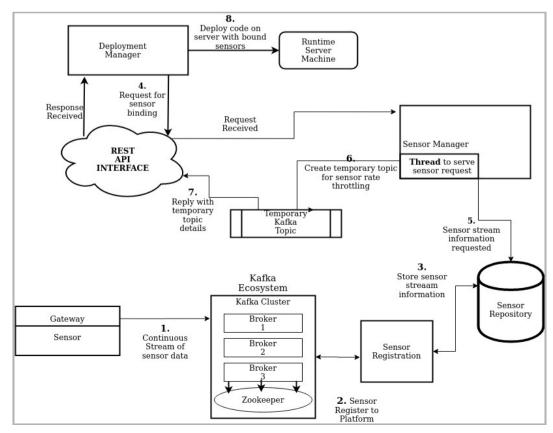


Repositry and Registry:

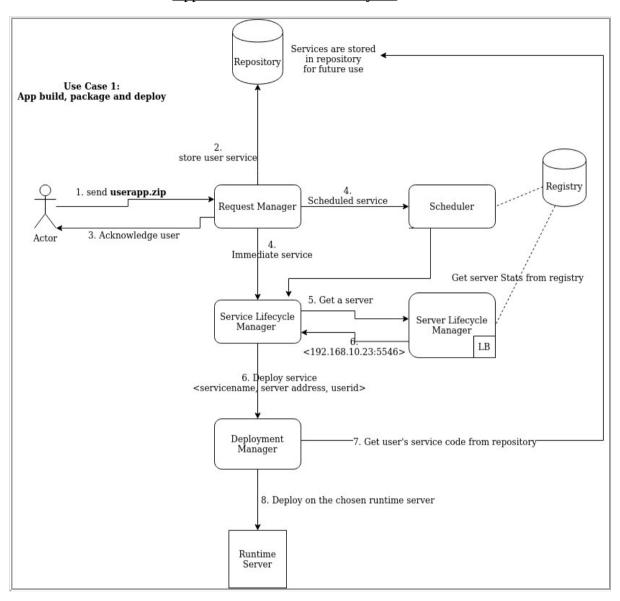


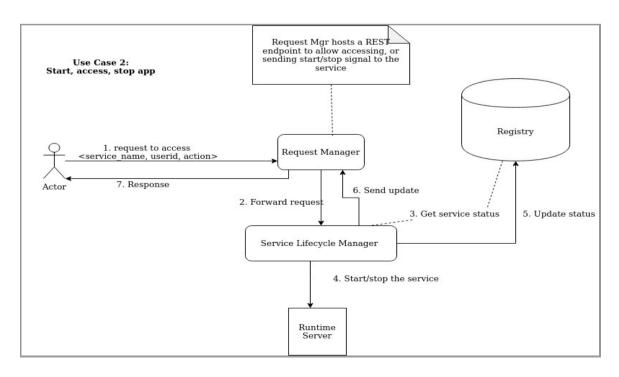
Communication Model





Application Model and Life Cycle:





Meta / Config Files

- User zip Directory Structure:

```
    Application1
    Services
    Service1
    Ode
    Servicecode1.py
    Servicecode2.py
    Dependency
    Ml_model_weights.pkl
    File1.txt

    Scheduling_info
    Schedule2.xml
    Schedule2.xml
    Configuration_file.xml
```

Platform Code Directory: inti.zip Config.yml 0 0 Machine Agent.py Unused_IP.txt Service Lifecycle/ 0 Server LifeCycle/ 0 Scheduler/ 0 Deployment Server/ 0 others/

Service Configuration File Format

Platform Config File

```
BootStrap Config:

Machine IP

port

Host pswd

Services_to_run
    service Name: Server LCM
    root dir: path of /serverLC
    docker_file: .dockerfile (container code for a particular service)
    startscript: .sh file (script to run docker file)
    params: json file

service Name: Service LC M
    root_dir: path of /serverLC
    docker_file: .dockerfile
    startscript: .sh file
    params: json file
```

Scheduling File Format

```
<schedules>
    <!-- Schedule 1 Info -->
    <!schedule>
    <schedule>
    <!-- Schedule 2 Info -->
    <!schedule>
    <!schedule>
    <!schedule>
    <!schedule>
```

DayWise

```
<schedule>
    <type>DAYWISE</type>
    <day>MONDAY</day>
    <time>
        <start>10:00</start>
        <end>12:00</end>
    </time>
</schedule>
```

Different Types Of schedules SINGLE INSTANCE

Periodic

Sensor Registration

Deployment Manager To Sensor Manager

Format:

BY ID:

BY_ADDRESS

```
<sensor>
    <type>BY_ADDRESS</type>
    <area>iiit</area>
    <building_name>nilgiri</id>
    <room_no> D12 </room_no>
    <name>TMP36</name>
    <count>ALL</count>
    <rate>100</rate>
```

BY Lat/Log:

Service Life Cycle to Deployment Manager

Start a user service

```
<service>
     <action>start</action>
     <user_id>group_1_user</user_id>
        <application>applicationame</application>
        <service_name>service1</service_name>
</service>
```

```
<service>
    <action>stop</action>
    <service_instance_id>axcl2cas</service_instance_id>
</service>
```