Internals of Application Server

TEAM REPORT

Application Manager / Platform Initializer

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Contents

1 Introduction

1. Platform Initializer
    - This module is used to initialize various modules, repositories, registries of the platform.
2. Application Manager
    - This module is responsible for authentication and parsing of input.

1.1 Platform Initializer

- Aim of this module is to set up all the modules of the platform.
- Platform maintains a configuration file which contains details of all modules.
- Platform Initializer reads this configuration file at start up and initializes every module accordingly.

1.2 Application Manager

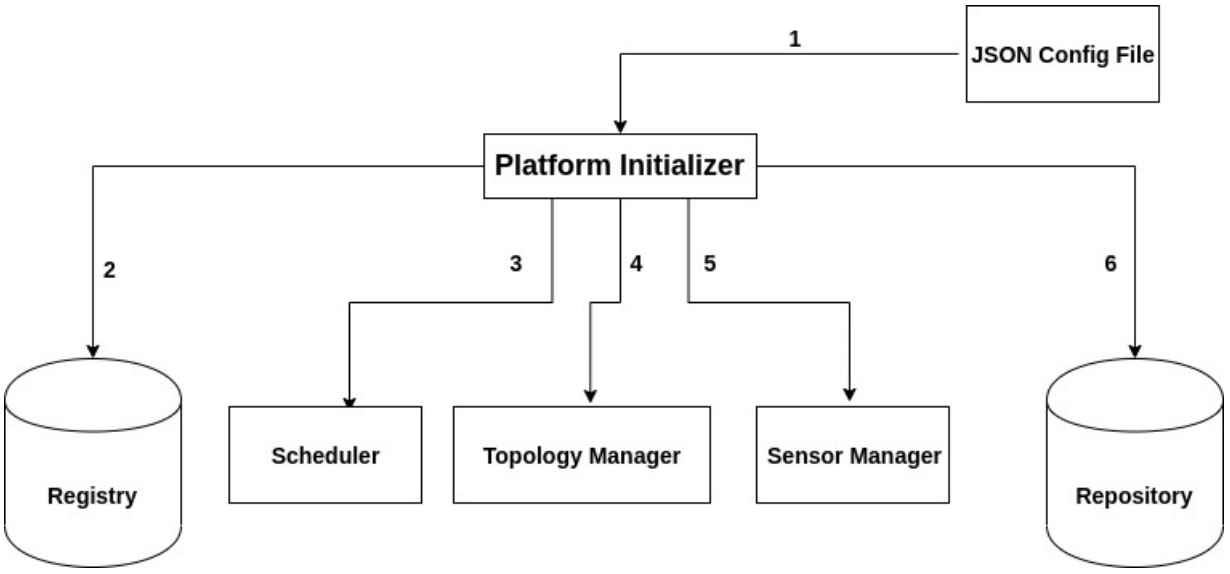
- This Module is Responsible for authenticating the users and take take appropriate actions on incorrect credentials.
- On successful login, user is prompted to enter the algorithm that has to be executed.

2 Platform initializer design

2.1 Description

- Platform initialzer Service :
  - Reading the configuration file to set up the platform.
  - This will ensure that if system goes down because of various reasons, it can be configured on the go.

2.2 Flow Details



2.3 Technology used

1) MongoDB : As a config

1) Kafka : To communicate with modules

3 Application manager design

3.1 Description

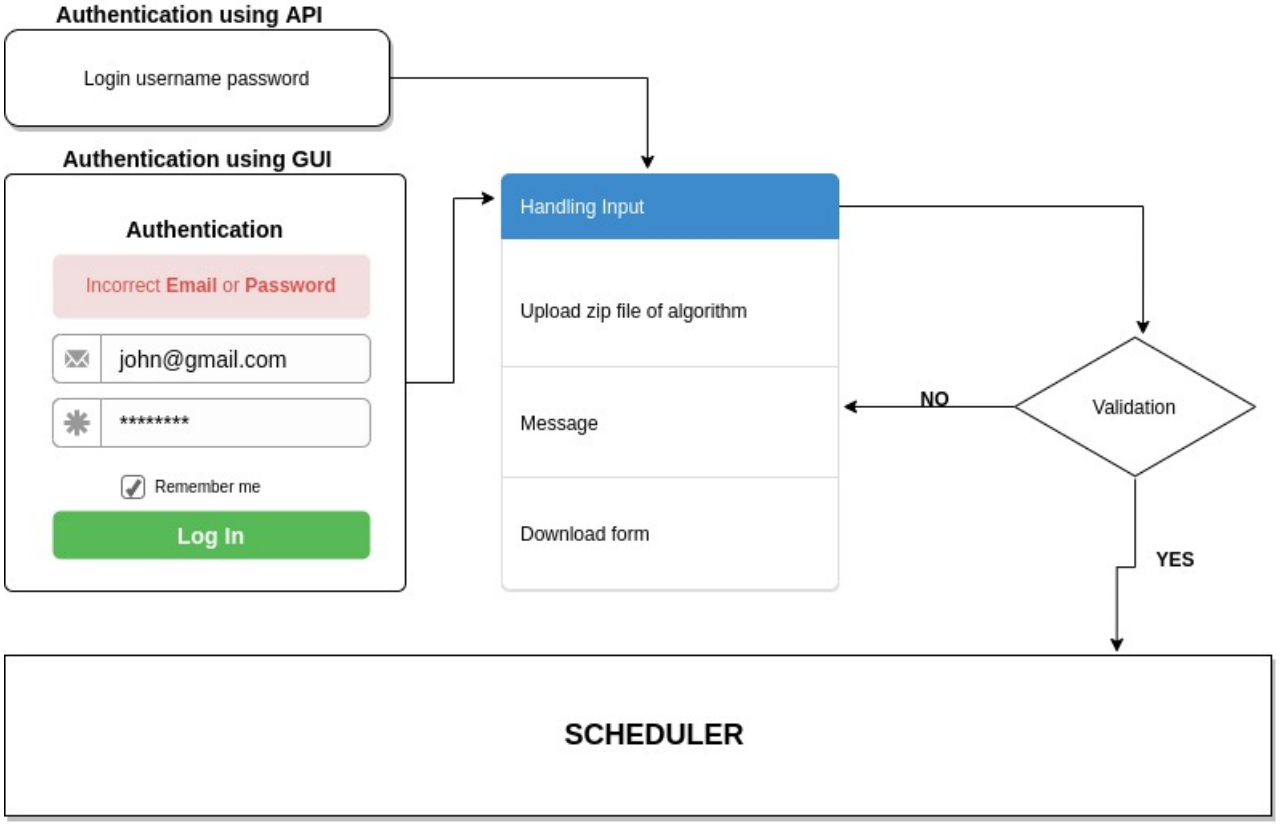
- **Sensor Manager** :

1. Responsible for validating user.

2. If it is a valid user, user will deploy the alogorithm that has to be executed on the platform via UI.

3.It will validate if the algorithm is in correct format

3.2 Flow Details



3.3 Technology used

- Bootstrap
- Flask
- MongoDB