https://github.com/zingwena-softwares/drone\_delivery\_musalasoft.git

## Assumptions made for the task

- A drone is first registered with zero weight
- Drone weight is the medication weight loaded in it
- Battery is registerd with 100% battery capacity
- The drone is registed with IDLE state
- Medication can be registered with eor without a drone and load it later to the drone

## How it works

- The weight of the drone is increased as the load of the medication increases untill it reaches the maximum weight of 500 and a warning is populated
- Only IDLE and LOADING states will be available
- The drone will not load if the battery is 25% or less

## Implemenation and configurations

- I used MYSQL database, java 11, spring v2.7.12,
- a default database dronedb.sql is given under resourses folder
- import the db locally and run the app
- Postman collection of the requests is given in resources/static/delivery\_drone\_musalasoft\_postman.postman\_collection.json
- Battery level is checked at every 1minute and logs are saved in drone\_delivery.log
- JUnit test are provided for the controllers only and are implemented using mockito to avoid the alteration of the database when testing

Feel Free to get in touch with me for any query on setup, running, builing or any fuctionality of the projects on <a href="mailto:warrenzingwena@gmail.com">warrenzingwena@gmail.com</a>

Below are some of the screens representing functionality of the API on postman













