Task description

We have a fleet of 10 drones. A drone is capable of carrying devices, other than cameras, and capable of delivering small loads. For our use case the load is medications.

A Drone has:

- serial number (100 characters max);
- model (Lightweight, Middleweight, Cruiserweight, Heavyweight);
- weight limit (500gr max);
- battery capacity (percentage);
- state (IDLE, LOADING, LOADED, DELIVERING, DELIVERED, RETURNING).

Each Medication has:

- name (allowed only letters, numbers, '- ', ' ');
- weight:
- code (allowed only upper-case letters, underscore and numbers);
- image (picture of the medication case).

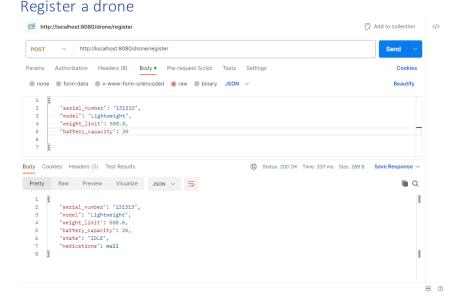
Develop a service via REST API that allows clients to communicate with the drones (i.e. dispatch controller).

The specific communication with the drone is outside the scope of this task. The service should allow:

registering a drone;

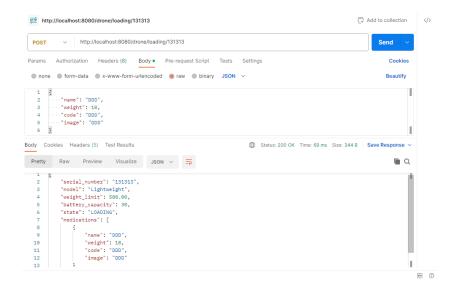
loading a drone with medication items; checking loaded medication items for a given drone; checking available drones for loading; check drone battery level for a given drone;

Show functional API Rest

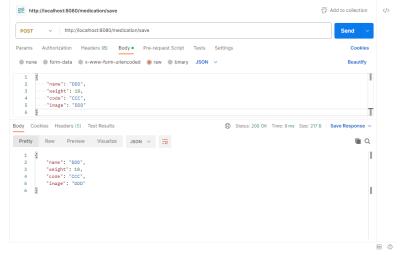


Loading a drone with a specific medicine

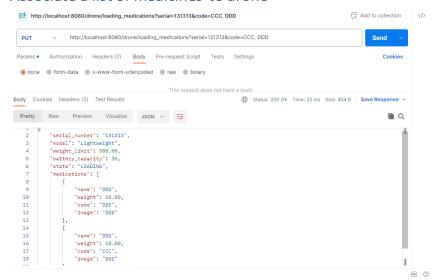
If medicine not exist, its created



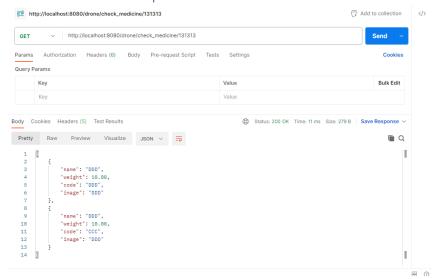
Aggregate a new medicine



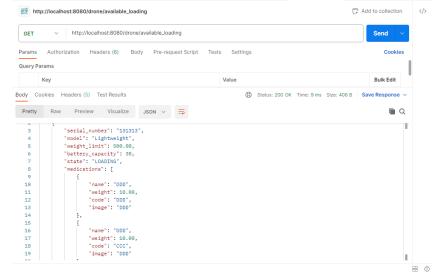
Associate a list of medicines to drone



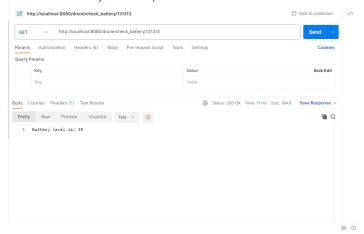
View medicines for specific drone



Show drones available to loading



Check battery for a specific drone



Show how obtain errors in a Json format

