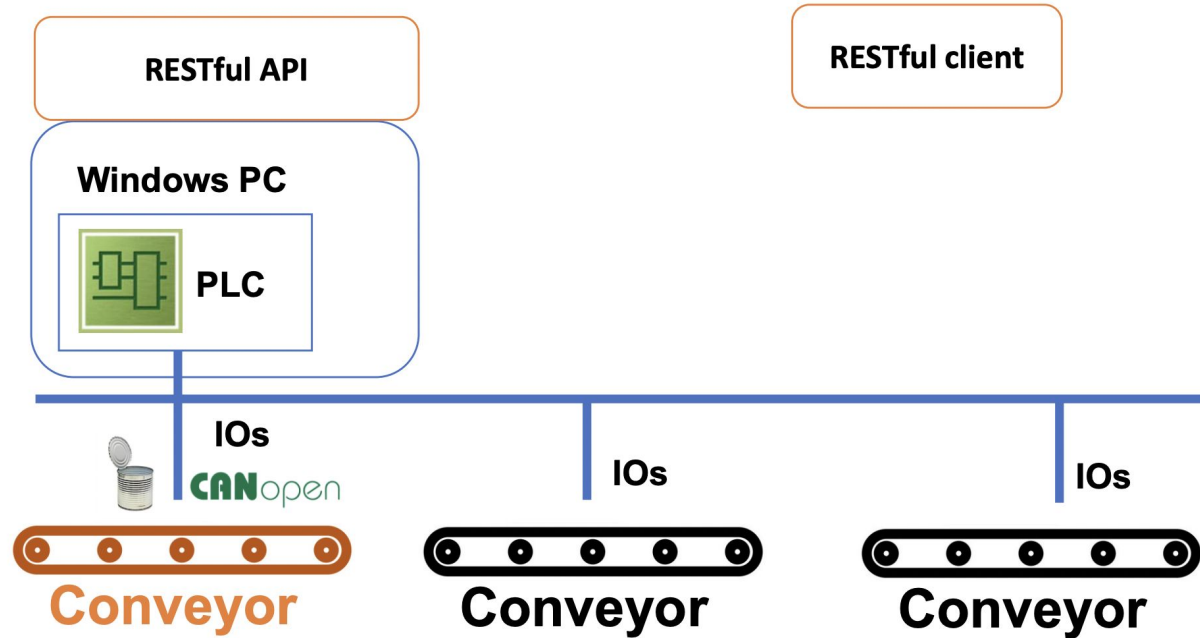


# Assignment 1

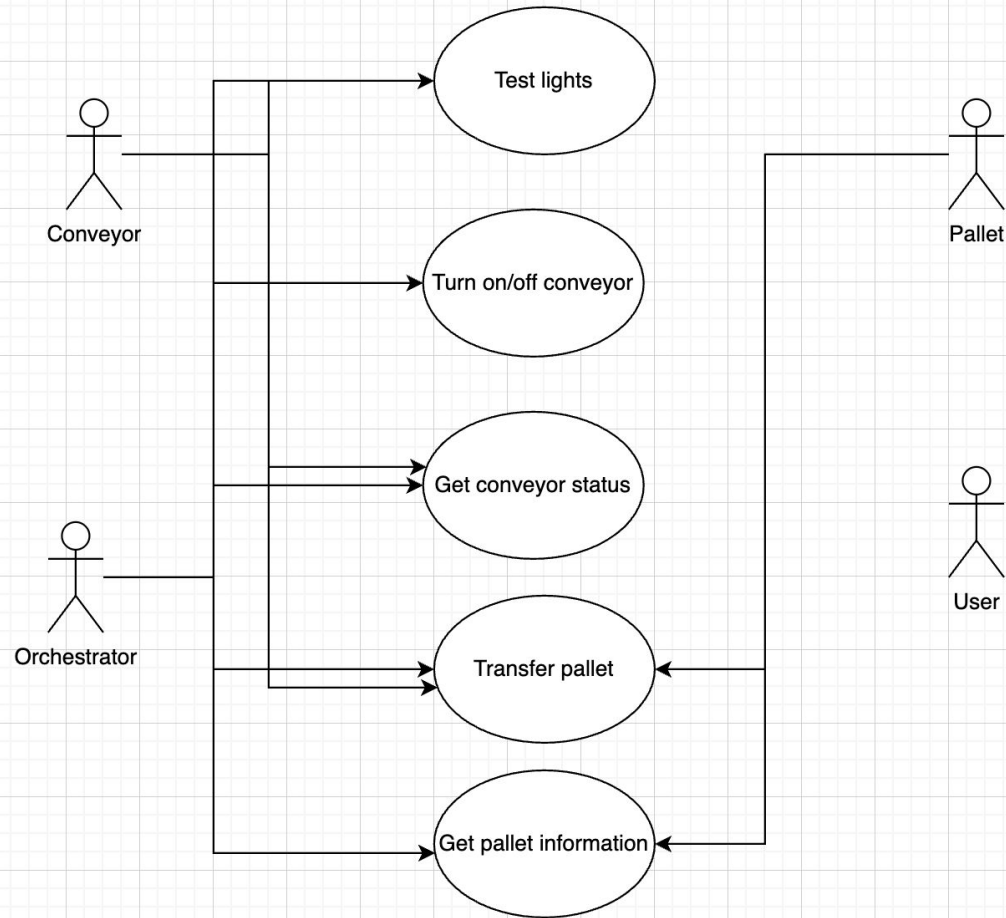
Conveyors system

# Problem

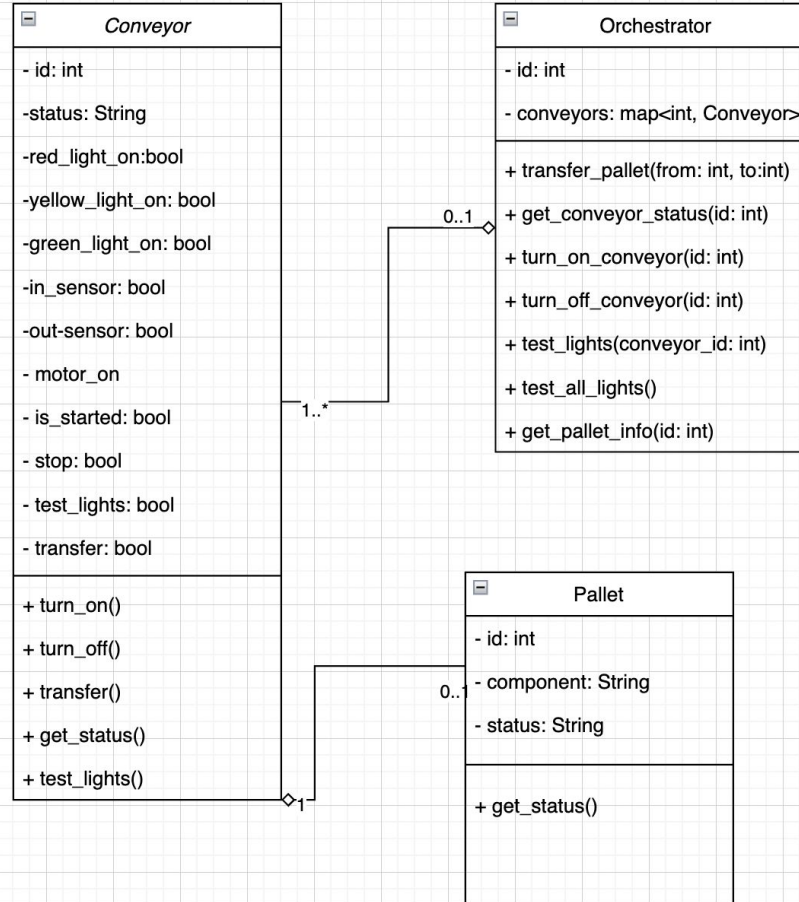
- Conveyor has motor, sensors and lights
- Pallet is transferred between conveyors



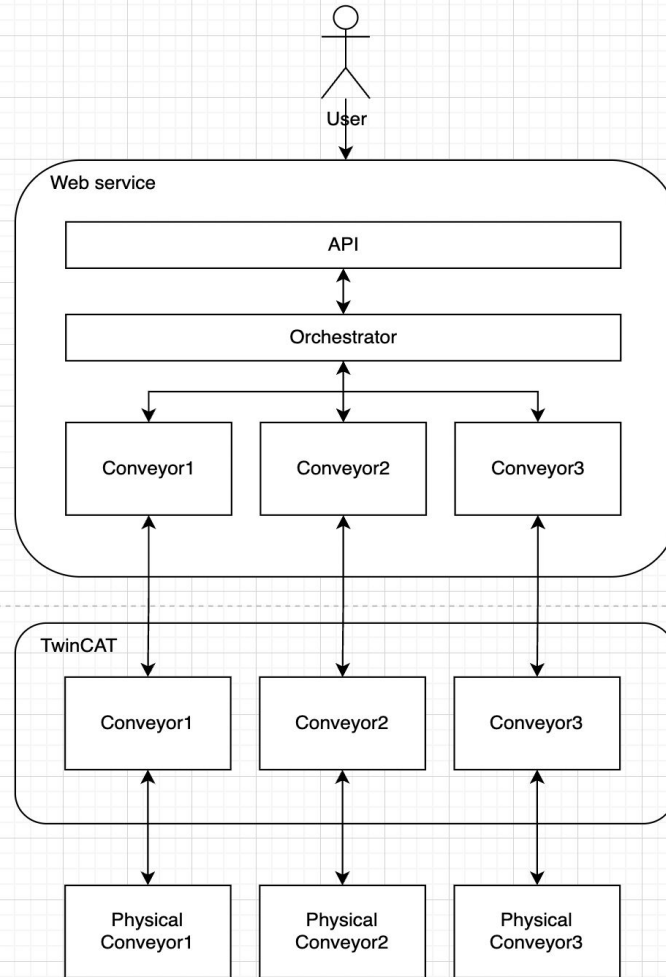
# Use cases



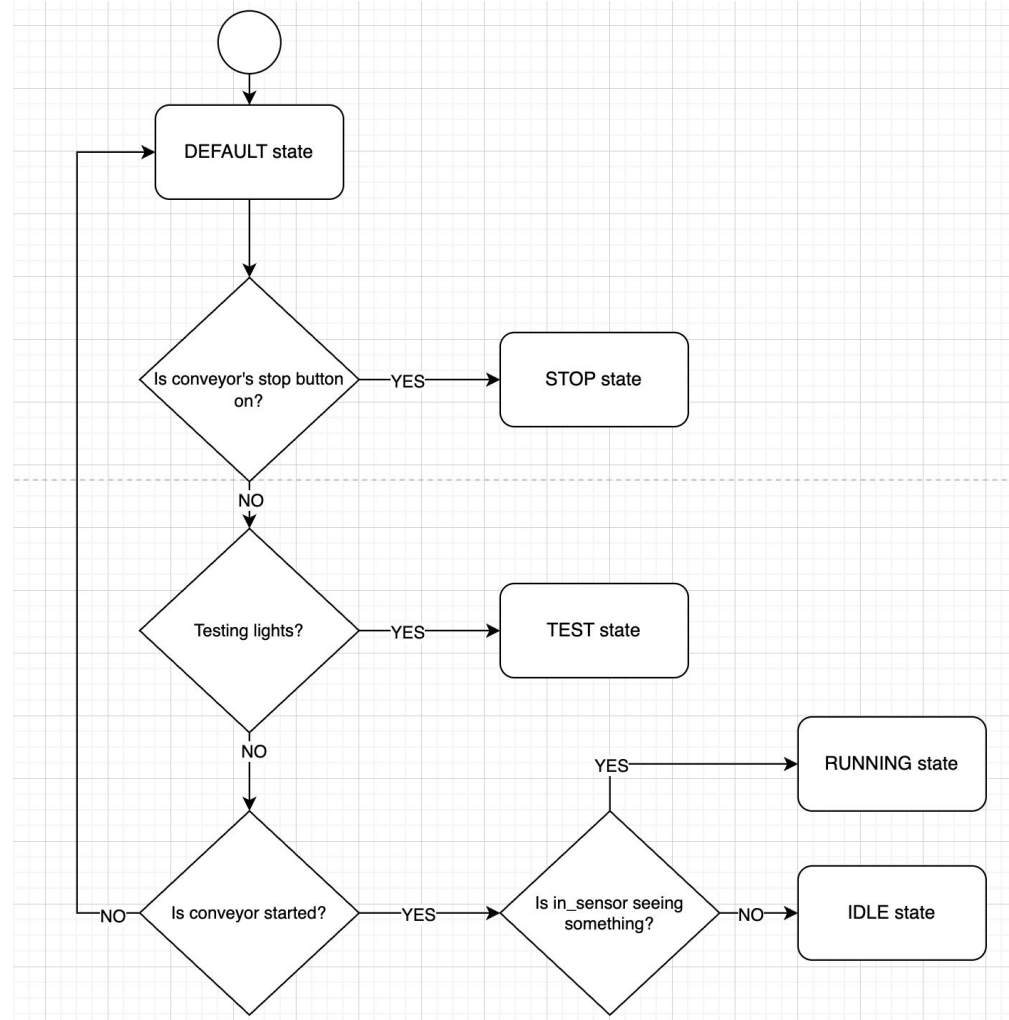
# Class diagram



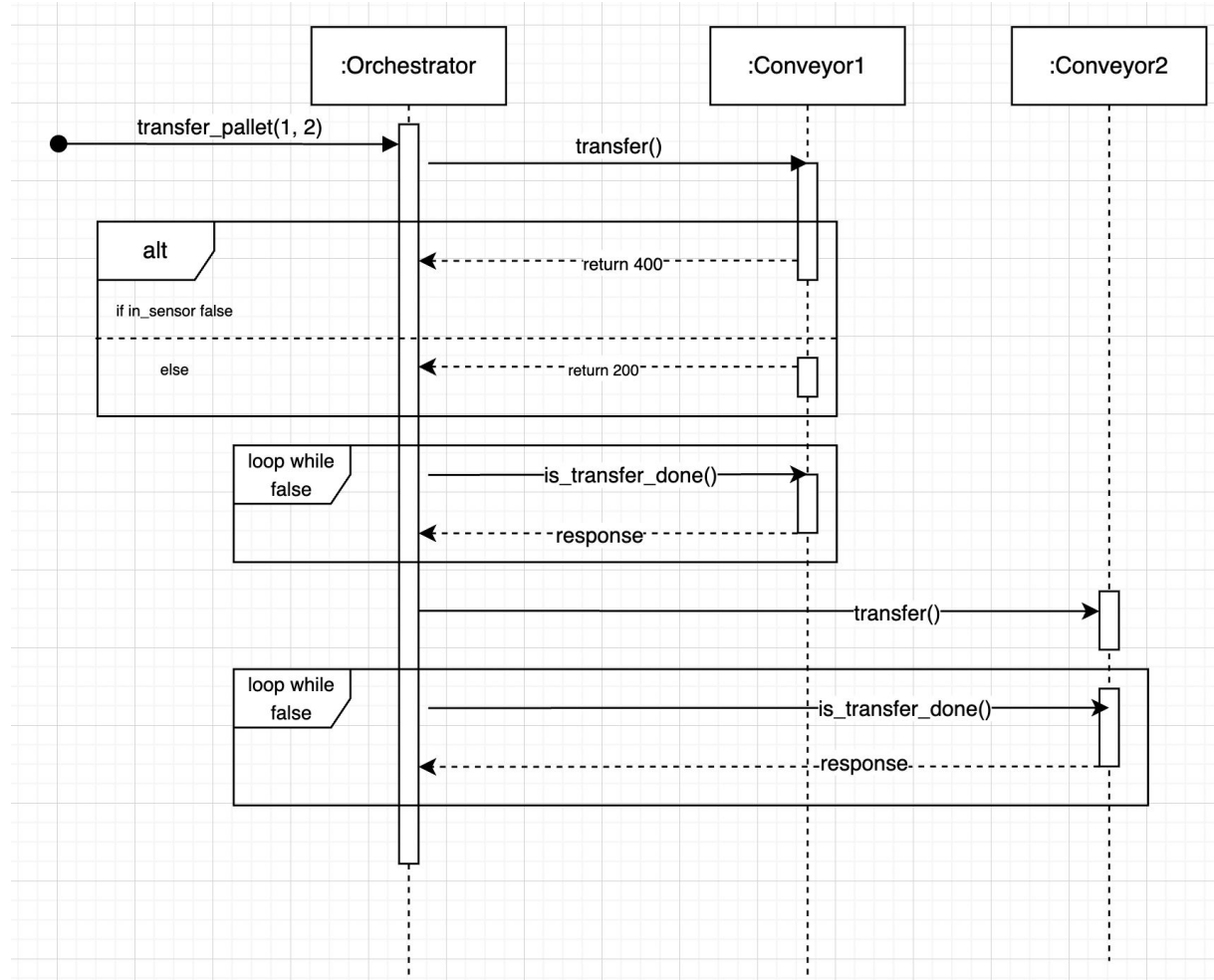
# System architecture



# Conveyor state machine



# Sequence diagram



# REST API - Conveyors

## GET:

- `/conveyors/{id}`
  - Get the status of a conveyor with given id

## POST

- `/conveyors/{id}/start`
  - Turn on a conveyor with given id
- `/conveyors/{id}/stop`
  - Turn off a conveyor with given id
- `/conveyors/{id}/testLights`
  - Executes test of lights on conveyor with given id
- `/conveyors/{id}/transfer`
  - Executes transfer mechanism on conveyor with given id



# REST API - orchestrators

## POST

- /orchestrators/{id}/testAllLights
  - Executes test of lights on all conveyors through orchestrator
- /orchestrators/{id}/collectiveTransfer
  - Executes transfer mechanism from conveyor <a> to conveyor <b> given in body
  - Example request body:

```
{  
  "from": 1,  
  "to": 2  
}
```