

# ILLA Backend Challenge

You are asked to implement a mini system for truck management. The trips are just a sequential collection of objects points with the following models.

## *Truck*

- id
- plate\_number

## *TruckLog*

- truck\_id
- latitude
- longitude
- geom (st\_point) datatype from PostGIS

1. You are required to build an API with these endpoints

*GET /api/v1/truck/:id/summary*

Truck distance travelled in the given date range

*GET /api/v1/trucks/active*

Active trucks in the last 5 minutes sorted by last activity time

*GET /api/v1/truck/log*

Log a datapoint (this endpoint will be called by the truck mobile app every 30 seconds if the truck is active)

2. Implement background job (sidekiq) that calculates a daily report:

- Total distance travelled
- Avg. truck active time

## *Important*

You have to use Rails 6 and PostgreSQL for the challenge

## *deliverables:*

1. You are expected to submit a git repository with the project

2. Your project should be run using docker-compose (docker-compose up)