# Beem Tech Challenge

## Task 1

### Create an Elevator API/Application

### Endpoints have to:

1. Call the elevator from any floor to any other floor.
2. Get real time information about the elevator place, state, direction

Additionally, get log information about events and save them into the database.
Also save every SQL query which gets executed into the database with tracking information on who/where/what made the call.

### Additional requirements

Elevators must be able to move async - i.e. If I have 5 elevators all of which are moving in separation directions, I should get records logged about every single action by each elevator. These logs must be segregated based on place/state/direction/etc, plus a way to see all of them in real time.

- The building can have a configurable amount of floors and elevator moves 1 floor every 5 seconds
- Doors open/close over 2 seconds

### Deliverables

- 2 API Endpoints in any language of your choice
- Unit tests in any language of your choice
- Document the process of installing and testing for a different person on your team - ideally what you would have on the readme.md file
- Create and share the link to the code repository - Github/Bitbucket/Gitlab
- Email careers@beem.africa with the link to the repo