1. Preface

### Here is below the project definition for TBA Case for interview test project. This information is extracted from initial document by TBA and the email communication between me and Mr. Adri Timmermans.

2. Project Definition

a. The system has a user interface (Web or console) that enables the user to instantiate vehicles and tell them to move.

* The vehicle movement is commanded by user.
* The user send message to vehicle containing direction of movement, distance and speed.
* Direction of movement is an angle to current movement direction.
* User can send movement message to vehicles when they completed last movement.

subsequent movement command to a vehicle when it hasn't completed its last movement will be ignored.

* The vehicle sends its current location to server.
* We do not need to follow the laws of nature and the vehicles do not need to interact with each other. Simply identifying a collision and then moving over each other in the simulation is not a problem. So for the sake of the case, We can assume the vehicles will stop themselves if they are too close to each other.

Optional:

b. The system has a web UI to enable the user to monitor vehicle current location.

In this project vehicle is simulated by a system process and there will an asynchronous messaging system for communication between different parts of system.