

# Simulator Instructions

## Setup Steps

1. Go to our group's GitLab and access the "Code Executable" folder
2. Run the .jar file named src within the folder

## Simulator Functionality

When you first launch the simulator, it will prompt you with a software update as the car is parked and there is a new software version available within Alset's servers. If you choose to update it will update the software, but if you choose no there will be opportunities to update it again on the next start-up of the car or via the technician interface.

## User Interface

This is the vehicle part of the simulator where you can simulate all the features such as cruise control, GPS, etc. To turn on the vehicle, you should hit the button start which simulates the key FOB aspect of our vehicle. You can then change the gear to forward and move the slider to a speed and press the black "SET SPEED = <speed>" to change the current speed. You can then monitor the current speed by pressing the blueish "SPEED" button.

When turning left or right you will sometimes either drift too far out of the lane or encounter an object in which case the vehicle will lock the steering wheel and notify the driver of the object. To ensure you see this functionality you can turn left or right multiple times till this happens.

The rest of the features are some form of button or integer input that will produce either a display output, log output, or both.

## Technician Interface

This is the technician part of the simulator which can be accessed by navigating to the top left of the simulator to the "view" menu. Select "Technician" in the drop-down which will then prompt a login menu. The credentials for the interface are as follows:

Username: alset\_admin

Password: 12345

Within the technician Interface, you can view the logs, view the current system information which includes the software version, and check for and initiate software updates. In viewing the log you can see how all the components log their actions accordingly along with error messages. You can also always navigate between user and technician interfaces via the view menu.