Technical Analysis

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| Ticket | #48 |
| Description | Technical Analysis: Introduce Assembly Plant information to the vehicle |

Scope of the Analysis

The scope of this analysis was to analyse the possibility of including the Assembly Plant information to a vehicle.

Change Description

## Initial Analysis

The locations table already has a field for location type, and since one of those types is a PLANT, we can make use of this in our change.

## Database Changes

To add this new field, I suggest a new column titled “Assembly\_Plant“, of type VARCHAR(45), in the Vehicles table, which references the location id within the vehicles table. This new column should look like this:

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| Assembly\_Plant  | VARCHAR(45) | FK : Locations.ID | Foreign Key to Locations Table |

## Code Changes

Alongside changes to the database, we need to update our code to allow for this new information to be accessed.

The addition of an assemblyPlant String to the Vehicle, Vehicle Table, Vehicle Request and Vehicle Response classes should suffice to represent this new field. If detailed information about an Assembly Plant is required, we can use the Location API to retrieve it.