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Instructions:

1. Install Dia = ERD tool. Link: <https://wiki.gnome.org/Apps/Dia/Download>

**Executive Summary**

The database application is to be used by car owners to keep track of their car maintenance schedules and the worked performed on their vehicle. The idea is that each vehicle has its own unique maintenance requirements and this application will allow a consumer to quickly answer questions such as “When is my next oil change do?” and “When do I have to flush out and replace the brake fluids?”. Our hope is that this application saves car-owners time in tracking down worked performed and work pending on their vehicle(s) by keeping electronic records of all of this data. TODO: improve on this summary.

The VMasterMaintenanceType entity will contain all the possible maintenance procedures a general vehicle can undergo such as “Change oil”, “Change oil filter”, “Rotate tires”, “Replace tire”, “Flush brake fluid”, “Inflate tire”, “Replace Battery”, “Recharge Battery”, etc.

-Replace, Rotate, Relocate, Inflate, … action (general… repair tire… and description? Plug hole)

-…followed by….. component: Battery, Tire, etc.

The VehicleMaintenancePlanGR (Vehicle Maintenance Plan General Recommendation) will contain general maintenance information for the main vehicle components a car owner will find in their car maintenance manual. The information in this table will give maximum upper bounds on when the car owner

The VehicleMaintenancePlanSchedule entity will contain all of the vehicle’s manufacturer-designated maintenance milestones. That is, it will contain the required maintenance schedule for the vehicle based on the vehicle’s mileage as per the manufacturer. For instance, a Chevy Equinox 2011 requires all of the following maintenance procedures at 100,000 miles: Oil change, tire rotation and alignment, Spark Plug replacement, etc. The same goes for other key mileage value such as 10K, 15K, 20K, 30K, 45K, 50K, etc.

VehicleMaintenanceHistory contains the history of all the maintenance operations performed on the vehicle.