mechanics need databases too

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Summary

## Overview

Mahinui auto shop has seen record business in the last decade. The owner, Brad, has finally decided to upgrade his purchasing order workflow from pen and paper being passed between mechanics to web and database. With more customers coming in by the day, keeping track of records has become a nightmare. Brad is looking to create a system to track and record all relevant things that surface during a routine customer service. (maybe the web portion of this is a portal for the customers to access their own records w/ a unique password)

CS340 project:

## Data base outline

**customers**

* id: int, auto\_increment, unique, not NULL, PK (need to look into this further so I know what I’m doining)
* f\_name: varchar
* l\_name: varchar
* contact\_no: varchar
* email\_address: varchar
* street\_address: varchar
* city: varchar
* state: varchar
* zip-code: int

**cars**

* id: int, auto\_increment, unique, not NULL, PK
* customer\_id: int, not NULL FK (this could track primary owner, in addition to multiple owners with the customers\_cars table)
* license\_plate\_no: varchar
* description: varchar
* make: varchar
* model: varchar
* year: int

**customers\_cars**

* customer\_id : int, not NULL, FK
* car\_id: int, not NULL, FK

**parts**

* id: int, auto\_increment, unique, not NULL, PK
* upc\_no: int (unless there can be leading zeroes, then we must store as varchar)
* category: varchar
* sub\_category: varchar
* base\_cost: int
* markup: int (percentage)

**repairs**

* id: int, auto\_increment, unique, not NULL, PK
* car\_id: int, not NULL, FK
* current\_status: int
* cost: int (can calculate based on the status.hours \* status.mechanics.rate?)

**parts\_repairs**

* part\_id not NULL, FK
* repair\_id not NULL, FK

**statuses**

* id: int, auto\_increment, unique, not NULL, PK
* category: varchar
* mechanic: int, not NULL FK
* complete: Boolean
* hours: int

**repairs\_statuses**

* repair\_id: int, not NULL, FK
* status\_id: int, not NULL FK

**mechanics**

* id: int, auto\_increment, unique, not NULL, PK
* f\_name: varchar
* l\_name: varchar
* rate: int

**certifications**

* id: int, auto\_increment, unique, not NULL, PK
* category: varchar
* type: varchar

**certifications\_mechanics**

* certification\_id: int, not NULL, FK
* mechanic\_id: int, not NULL, FK