# CS355 Databases

# Fall 2019

# Project Proposal

**Car Inventory Management System**

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# *Submitted to*

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**Introduction**

The project aims to create a car-inventory management system which can be utilized by local car-dealerships by maintaining their data on the type of cars they have in their inventory and their individual details e.g. mileage, insurance, features, taxes etc. The system will send them search results and will provide them with data about which car makes were searched for the most along with another set of data which contains information about what kind of cars are the most popular in demand among tbeir customers. This can help them make changes to their business and marketing strategy with ease and efficiency. (Increased sales are not guaranteed witb this design).

**Modules of the System**

Price of the car and its taxes will be dealt with using a module which deals with the cars finances(taxes, insurance, price). This module will keep track of the total price of the car, the amount which has been paid(if its on lease), its due taxes, whether the car is insured and the insurance cost if its not insured.

Search\_Results will be managing the number of times the search for each type and make has been made which will provide us with the data for business and strategy development.

The car inventory will be managed by a module which contains detailsd data on each car. It will contain information of the car regarding their make, model, registration ID, registration year, model ID, engine type, transmission, seating capacity, vehicle type and special features.

Features are handled seperately which includes AC, power locks, power windows, power steering, airbags, ABS brakes, sunroof, paddle-shifters, Smart infotainment, AM/FM radio etc.

A user module will be saving their personal information which includes their user id, full name, address, mobile phone number and citizen registration number.

Transaction module will keep intrack of the leasing of the car, the money paid, amount remaiming and the user ID from whom the amount is being paid.

**Missing relationships among different possible entities in the above description.**

**Front-end Development**

Front-end Development will involve the usage of all of these specified modules.

**Should be list down clearly here with usage of each screen.**

*Note: [List the modules that will be addressed for front-end development. Front-end can be a desktop based/web-based/app based application developed in any language/platform. If your system is detailed enough, you do not have to build the front-end of complete system. You can choose some module(s) and implement them completely from front-end to back-end. Discuss this with your instructor/RA and get their approval before finalizing the scope. ]*

**Tools & Technologies**

Back-end: SQL Server Front-end: C++/C#