**Software Engineering: Car Application**

**Introduction**

The objective of this project is to help an auto shops to organize, document and track their car sales business. Basically, it offers total services to deal with customers for car dealers.

Car dealers usually have to deal with lot of car customers and complicated car’s information. If they do it by hand, they could have mistake on the document or give the false information to the customers. That’s why we want make the program for car dealers to organize information very well. This program will help car dealers to search up a specific car from the inventory, this will save them a lot of time by doing so. Instead of doing it by hand, the car dealers can just enter a few inputs into the search bars, such as year, make, model, or you can simply just enter the vehicle’s VIN number to look up the vehicle within seconds. It will provide customer the record of existing inventory, car details, and other important information regarding the vehicles. Also, it offers powerful sorting function so that it can be sorted in the way how users want. Car dealers can easily analyze the car lists by using the sort function. We will make a page for car’s detail which tells about car’s history and vin#, and made, and more detail about car. Also, the app is going to give powerful authorization to users so that they can add or change information about car. Also the user interface will be easy to use. It will consist of button or checkbox. Anyone can figure out how to use the app easily. There will be also payment function that can calculate the total price of car including taxes and etc.

**User Stories**

Users want program that can make a schedule with customer, and can look through the

car inventory and can look into specific car’s information including car’s year and condition and

make. The reason why these are required because we are making apps for car sellers. They deal

with customers a lot so it should have function dealing with customer such as making a schedule.

Also, they need to describe information to customers about car so we might need function which is able to see all the information about car. Also, for user convenience, it can sort the cars in the order that they want. For example, if they want to search car’s brand names in alphabetical order, it can offer lists of car brands in alphabetical order. Also, we can have search engine for search specific car. For example, if we want toyota brand made in 2000, then there will gonna be only toyota cars made in 2000. This app consists of main page which has all the functions that I said before. User can click what user wants and use the function that we invented.

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| Identifiers | User Benefits | Points |
| UB-1 | User can look up cars’ information in car inventory | 15 |
| UB-2 | User can sort cars’ information in the way they want | 5 |
| UB-3 | User can make a schedule with the app | 5 |
| UB-4 | User can know all the specific car’s information in one frame | 10 |
| UB-5 | User can choose what he or she want to choose in main page | 5 |
| UB-6 | User can change the cars’ information easily | 5 |
| UB-7 | User can calculate how much the total would be with this app | 5 |
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**System Requirements**

For the system requirements, we first want to make a panel and frame for the main page.

The main page will give customers options to choice what they want to do, they can select any

function. Each choice will have a name/ description next to it so it’s easier and more clear for the

user to use. For example, if the user want to look up a car’s information, the choice will be

named “Look up a car”, in order for this to work we will make a checkbox or a button for user to choose. After the customer enter the car’s information, either by year, make, and model, or can simply enter the car’s VIN number. After customer’s input is entered, it will search for the match

from my car list, which other car informations will be stored within another class. If a car

matched with our list or found, the car’s information will show up on the screen with textfield.

On the other hand, in order for the buttons or the check boxes to work, we will have to set up a

few action listeners. When a checkbox or button is pressed or chosen, a specific action listener

will perform its function. Let say, when “look up a car” is pressed, theres are questions that will

pop up to prompt a user’s inputs. This will be the same as other functions, such as customer’s

account lookup, selling a car, check inventory, etc…

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| Identifiers | Priority:  (5-Most important) | Comments/ Features: |
| SR-1 | 5 | Be able to search vehicles by inserting make, year, model, or VIN #. |
| SR-2 | 5 | Be able to change and save the car’s information in car inventory. |
| SR-3 | 5 | Create a friendly user interface for car dealers. |
| SR-4 | 4 | Create a function or frame that shows order details, such as taxes, total price and etc. |
| SR-5 | 3 | Create the page for all the details about each car with pictures. |
| SR-6 | 2 | Be able to sort the information in the way how users want. |
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