Assignment 2 Requirements

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Problem Definition:
Our project aims to develop a reliable and easy way to purchase a vehicle of your choice. Instead of shopping around, you can use our website which has a large variety of stock from trusted dealerships across Ireland. We ensure that the customer will receive a high quality vehicle with warranty, this provides security to the customer and makes sure that the vehicles are all high standard. If a customer does not find the car they're looking for, we have a source feature which guarantees that we would source the exact car they're looking for within two weeks of the enquiry.

Scope:
Our website will be an easy to use one stop shop for all your vehicle purchasing needs. Firstly, on our home page, the introduction will display a walkthrough of how our website functions and what service we provide. A search feature is implemented so a customer can search for the exact car they're looking for and options from trusted dealerships will be shown. A trade-in page for customers who wish to trade-in their vehicle is very useful as the customer puts in details and photos of their vehicle and we get back to them with the highest quote from all the dealerships we are partnered with to ensure they get the best value for their vehicle. An enquiry page will prompt the user to enter their personal details and the lot number for the vehicle they're interested in viewing. Then the user is sent an available appointment from the dealership which owns the vehicle. Lastly, we provide a source feature if a customer does not find the exact vehicle they're looking for. The user enters their personal and vehicle details, and we source the exact car they're looking for within two weeks of their request.

We do not take payments from the customer, we are simply a middleman for trusted dealerships, the customer and dealership make a deal. We don't provide finance options for customers, the dealership they may want to buy a car from does, and all the finance options vary from different dealerships. We don't provide warranty for vehicles, each dealership has their own warranty system. Our service doesn't sell cars, we do not negotiate deals for the customers, we simply direct customers to the preferred dealerships. Lastly, we do not provide servicing and parts, the dealership which the customer buys a vehicle from would.

Walkthrough Scenarios:
Example 1
A user enters our website, they are prompted to register firstly. In the introduction page it is stated that we are a one stop shop vehicle purchasing website, the customer has a car already but would want to upgrade. Using the search feature on our website they find a car, next on our enquiry page they enter their personal details and the lot number for the car, lastly on our trade-in page they enter their vehicle details and receive the highest offer from our trusted dealerships for their vehicle. Shortly, the customer will be called in to book a viewing appointment for the car they enquired about.

Example 2
A user enters our website, they are prompted to register. In the introduction page they read about what service we provide. The customer searches for a car they're looking for, they can't find what they're looking for. They enter our source page, put in the details of what car they want and their personal details. Shortly after, they receive a call that we have accepted their request and within two weeks we will source the exact vehicle they are looking for.

Product Requirements: User and System Requirements:
User requirements include a registration system which prompts the user to enter an email and password, once entered their information is saved on the database.

System requirements include a search engine for vehicles, vehicles get uploaded on the database from the dealerships and then get sent on the website for viewing.
Enquire page collects the user's personal information and the vehicle they're enquiring about.
Trade-in page collects the user's personal and vehicle information and gets sent onto the database.
Source page requires exact details of the vehicle the customer is looking for and their personal info, the vehicle they are looking for gets put on the database and gets sent out to all the dealerships so they can try source the car.

Use Case Diagram, Use Case Specifications:

In the Use Case Diagram, we can conclude that a customer enters our website, logs in, and they either search for a car, trade-in a car, enquire about a car or would like to source a car, all of the information gathered gets sent onto our partnered dealerships and the dealerships get back to us and we inform the customer about what the dealership has said. Essentially we are a middleman.

Graphical User Interface outline:
This is our basic interface of our website, it is not the final product, however it gives us an insight into how the user interface would look like.
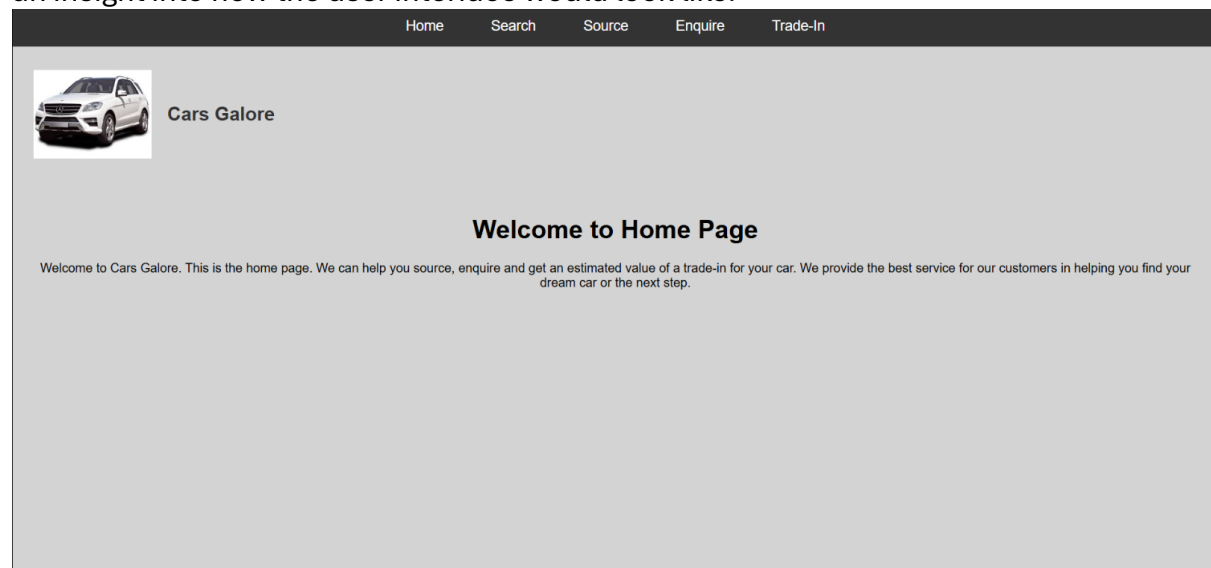
Technical requirements & Feasibility
The technical requirements for this project would include a mixture of html and css programming for the website design, PHP for the server-side to interact with SQL database which would act as the backbone of the website and will include all the user information and requests as well as all the dealerships and vehicles.

The feasibility of our website appears to be doable, as we work through the project as a team we are encountering issues, however so far nothing we couldn't overcome. Our plan is to create our website as close as possible to what we have planned it would be.

Conclusion:
To conclude our project so far, we have developed a great foundation for our website and a decent plan of action. Our team will now need to focus on creating the functionality of our website and tweaking our design. Our ideas have became a reality and our middleman service for a car purchasing website is seeming to be achievable.