Domain model derivation

Each use case has a form of user interface that allows a customer, technician, salesperson, or manager to perform creation, reading, updating, and deletion of vehicles within the inventory system; with the exception of use case number five, which we will discuss at the end. Each use case involves the database to track what changed, who changed what. This will allow for future additions of adding in sales data collection. The use cases one thru four initiate via a user; a manager, technician, customer, or salesperson. They will interact with the system via a web page that will take in their requests, such as a search request, and pass it to the controller to convey to the appropriate service. In most cases, this will involve communicating with a database for the required data and then a page maker to translate and return the data to the website. A website versus a specific software gui allows for easy deployment to most computers and existing systems along. In use cases two and three, they alert a different actor, namely a technician, to bring the car to the requested spot. This can be set-up to a specific IP address or device identifier at the customer’s site. Use cases two and three have timers to check if the car has been moved per a request and uses a timer to recheck the sensor’s status to know if there needs to be a re-alert to the technician or salesperson. Use case four has a unique element of a reservation. The reservation is initiated by the customer via the dealership’s website.

Use case number five is the most unique of them by being the one that the initiator is the sensor. If a sensor is tripped, it will begin a check to the data base to see if the car was cleared to be relocated. Once confirmed via a database check, the controller will send a notice to a technician or salesperson that an unauthorized move has occurred. The technician can do a visual check per the dealership’s policy to confirm the car has gone missing. The database will be updated of the missing car, a sensor’s ID, and the time of the sensor alert.