Car dealership system requirements-Edmir Kasapi

The customer is able to purchase a car via the e-commerce site where he can browse the different cars and then pay the car online.

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| **UC Name** | UC-SC2 Filtering/Sorting the vehicle list |
| Summary | The system allows the customer to:  -Sort the vehicles in ascending or descending order based on their price or build date  -Filter out vehicles based on their qualities such as transmission type, condition, body type, etc. |
| Dependency | No dependency |
| Actors | -Customer |
| Preconditions | -The customer must be logged in by entering the appropriate credentials.  -The system must have an operational database filled with the appropriate data. |
| Description of the main sequence | 1.The customer logs in to the e-commerce site.  2.The customer selects an option to filter the vehicles.  3.The system displays the tags available to filter the vehicle list.  4.The customer selects the “manual” tag on the transmission header of the options.  5.The system displays all vehicles with manual transmission. |
| Description of an alternative sequence | 1.The customer logs in to the e-commerce site.  2.The customer selects the option to sort the vehicles.  3.The system displays the sorting options available.  4.The customer selects the option to sort the vehicles by build date from newest to oldest.  5.The system displays all vehicles sorted in the requested manner. |
| Nonfunctional requirements | -The sorting of the list should be quick and accurate to the customer’s request |
| Postconditions | A list of vehicles is displayed to the customer sorted in the way they requested. |

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| **UC Name** | UC-SC1 Browsing the car catalog |
| Summary | The system allows the user to search for vehicles by entering the make and model  (or either one of them) on the search bar. |
| Dependency | No dependency |
| Actors | -Customer |
| Preconditions | -The customer must have a registered account and should be logged in by entering the appropriate credentials.  -The system must have an operational database filled with the appropriate data  . |
| Description of the main sequence | 1.The customer logs in to the e-commerce site.  2.The customer types the make and model of their desired vehicle on the search bar.  3.The customer clicks the button “search” right next to the search bar.  4.The system displays the vehicles with the make and model entered by the customer.  5.The customer selects one of the displayed vehicles.  6.The customer exits. |
| Description of an alternative sequence | 1.The customer logs in to the e-commerce site.  2.The customer types only the make of their desired vehicle on the search bar and clicks the button ”search”.  3.The system displays all vehicles with the entered make.  4.The customer selects one of the displayed vehicles.  5.The customer exits. |
| Nonfunctional requirements | -The system must respond quickly to customer input.  -The system must display accurate data based on the input given by the customer.  -The interface should be simple and easy to understand. |
| Postconditions | A list of vehicles is displayed to the customer with the vehicles of the make and model they desire. |

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| **UC Name** | UC-DVI Displaying vehicle information |
| Summary | The system should display basic information about the vehicles such as:   * Make * Model * Condition (Used or new) * Body type * Transmission type * Fuel type * Build date * Description (Optional) * Pictures of the vehicle |
| Dependency | No dependency |
| Actors | -Customer |
| Preconditions | -The customer must have a registered account and should be logged in by entering the appropriate credentials.  -The system must have an operational database filled with the appropriate data. |
| Description of the main sequence | 1.The customer logs in to the e-commerce site.  2.The customer searches for a vehicle.  3.The system displays the appropriate list of vehicles.  5.The customer selects one of the vehicles.  6.The system receives and displays detailed information about the vehicle. |
| Description of an alternative sequence | None |
| Nonfunctional requirements | -The system should provide accurate information about the selected vehicle.  -In the vehicle list, the information should be displayed in the form of icons. |
| Postconditions | The customer can see detailed information about the vehicle selected/displayed on the list. |

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| **UC Name** | UC-VP1 Purchasing a vehicle |
| Summary | The system should prompt the customer to enter their payment information when they choose to purchase a vehicle and generate a bill which contains the order information. |
| Dependency | UC-SC1 and UC-SC2 |
| Actors | -Customer |
| Preconditions | -The customer has searched for their desired vehicle and is viewing detailed information about said vehicle. |
| Description of the main sequence | 1.The customer clicks the “purchase” button while viewing detailed information about the vehicle.  2.The system prompts the customer to enter their payment information.  3.The customer enters their payment information and clicks a “proceed” button.  4.The system prompts the customer to enter delivery information.  5.The customer enters the delivery information and clicks “proceed”.  4.The system inquires the user if they are sure they want to make the purchase.  5.The customer clicks “yes”.  6.The system stores the order in the orders database with status “pending”.  7.The system notifies the manager about the new order |
| Description of an alternative sequence | 1.The customers selects a vehicle to purchase.  2.The customer proceeds with the payment and delivery information.  3.The system inquires the user if they are sure they want to make the purchase.  4.The customer clicks “No”.  5.The customer is sent back to the vehicle information screen. |
| Nonfunctional requirements | -The system should display accurate pricing of the selected vehicles as well as the total of the entire cart.  -The interface should be intuitive and easy to interact.  -The system should display the price in the selected currency by the customer(Euros/Dollars/ALL).  -The process should be as efficient as possible. |
| Postconditions | The customer has completed their vehicle order and provided appropriate information. The order information is sent to the customer and finance team for confirmation. |

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| **UC Name** | UC-VP2 Confirming the order |
| Summary | The system should notify the customer if their order was validated. |
| Dependency | UC-VP1 |
| Actors | -Customer  -Finance representative(secondary actor) |
| Preconditions | -The customer has completed the vehicle order. |
| Description of the main sequence | 1.The system sends the order details to the finance team.  2.A finance representative reviews the order made by the customer.  3.The finance representative approves the order.  4.The system validates the order and sends a validation email to the customer. |
| Description of an alternative sequence | 1.The system sends the order details to the finance team.  2.A finance representative reviews the order made by the customer.  3.The finance representative rejects the order.  4.The system deletes the order and sends an email explaining why the order was rejected to the customer. |
| Nonfunctional requirements | -The confirmation email should briefly explain why the order was approved/rejected by the finance team.  -The delivery time of the confirmation email should be as minimal as possible.  -The order details should be displayed with accuracy. |
| Postconditions | A confirmation email is sent to the customer’s email address by the system. The order made by the customer is validated if approved by the finance team. |