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| Usecase Name | Add New Cars |
| Overview | Allows a company user to add new car listings to the inventory. |
| Related use cases | None |
| Actors | Company |
| Pre Conditions (Optional) | The user must select the company mode and enter the car details correctly. |
| Post Conditions (Optional) | The new car listing is added to the inventory database. |

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| Usecase Name | Browse Cars |
| Overview | Enables both company and buyer users to view all available cars in the inventory. |
| Related use cases | Delete Cars (in company mode), Buy a Car (in buyer mode) |
| Actors | Company (in company mode), Buyer (in buyer mode) |
| Pre Conditions (Optional) | The user correctly selected the browse option correctly. There must be at least one type of car saved in the inventory. Otherwise, return an empty list. |
| Post Conditions (Optional) | All cars in the inventory are displayed to the company or buyer. |

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| Usecase Name | Delete Cars |
| Overview | Allows the company to remove a specified quantity of a particular car type from the inventory. |
| Related use cases | Browse Cars (in company mode) |
| Actors | Company |
| Pre Conditions (Optional) | The company must have performed the Browse Cars. The quantity specified for deletion must not exceed the quantity available in the inventory for that car type. |
| Post Conditions (Optional) | The selected type of car is removed from the inventory and the data file is updated. |

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| Usecase Name | Get Revenue |
| Overview | Allows a company to view all transaction details and total revenue from car sales. |
| Related use cases | None |
| Actors | Company |
| Pre Conditions (Optional) | The user must select the company mode. Each selling transaction was recorded correctly. |
| Post Conditions (Optional) | The program displays all transaction details and total revenue generated from car sales. |

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| Usecase Name | Search for Cars |
| Overview | Allows a buyer to search for cars based on type or price. |
| Related use cases | Search by Type, Search by Price |
| Actors | Buyer |
| Pre Conditions (Optional) | The user must select the buyer mode. And the buyer should enter the option correctly. |
| Post Conditions (Optional) | The program displays a list of cars that match the search criteria in the end. |

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| Usecase Name | Search by Type |
| Overview | Allows a buyer to filter the car listings based on the car type, such as Lamborghini or Rolls-Royce. |
| Related use cases | Search for Cars, Buy Cars |
| Actors | Buyer |
| Pre Conditions (Optional) | The user must select the buyer mode and correctly enter the type they wish to search for. |
| Post Conditions (Optional) | The program displays a list of cars that match the specified type. If not, an appropriate message is shown. |

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| Usecase Name | Search by Price |
| Overview | Allows a buyer to filter the car listings based on a specified price range. (with a min price and a max price) |
| Related use cases | Search for Cars, Buy Cars |
| Actors | Buyer |
| Pre Conditions (Optional) | The user must be in buyer mode and correctly specify the minimum and maximum price range. |
| Post Conditions (Optional) | The program displays a list of cars that match the specified price range. If not, an appropriate message is shown. |

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| Usecase Name | Buy Cars |
| Overview | Allows a buyer to purchase some cars from the inventory. (The buyer should know the ID of the wanted car by browsing cars or searching for cars since they need to enter the car ID later.) |
| Related use cases | Browse Cars, Search by Type, Search by Price |
| Actors | Buyer |
| Pre Conditions (Optional) | The buyer should know the ID of the wanted car by browsing cars or searching for cars. Then, the buyer should enter the correct ID of the wanted car. |
| Post Conditions (Optional) | The selected cars should be deducted from the inventory. The transaction details should be recorded on the revenue report to the company. |