UML Sequence Diagrams

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| --- | --- |
| Name of Operation | FindCarInDatabase(string VIN) |
| Responsibilities | Informed buyer wants to buy a car |
| Type | System |
| Cross Reference | Use Case 1 |
| Exception | If request is invalid, chatbot should ask user to clarify |
| Outputs | Email Car Salesman with customer information |
| Preconditions | Customer provided valid VIN; car has not already been sold |
| Post-conditions | None |

A screenshot of a diagram

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| --- | --- |
| Name of Operation | suggestCarInDatabase(string[] requirements) |
| Responsibilities | Provide undecided buyer with enough information to choose a car to purchase |
| Type | System |
| Cross Reference | Use Case 2 |
| Exception | If request is invalid, chatbot should ask user for more details regarding missing input fields |
| Outputs | Email Car Salesman with customer information and car choice |
| Preconditions | Car database is available for chatbot to search |
| Post-conditions | None |

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|  |  |
| --- | --- |
| Name of Operation | finance(string VIN) |
| Responsibilities | Connect buyer with a desired car model with a sales member and finance specialist, and provide financial details to specialist |
| Type | System |
| Cross Reference | Use Case 3 |
| Exception | If request is invalid, chatbot should ask user for more details regarding missing input fields |
| Outputs | Email Car Salesman and finance specialist with customer information and car choice |
| Preconditions | Car database is available for chatbot to search |
| Post-conditions | None |

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|  |  |
| --- | --- |
| Name of Operation | contactRepair(car details, string[] customerDetails, string AppointmentTime, string RepairDetails) |
| Responsibilities | Schedule a car repair after a user provides a valid appointment time |
| Type | System |
| Cross Reference | Use Case 4 |
| Exception | If appointment time is invalid, request a different appointment time. |
| Outputs | Notify user and vehicle service provider that an appointment for car repair has been scheduled |
| Preconditions | Car database is available for chatbot to search |
| Post-conditions | None |

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