

Week 2 Example

This example demonstrates adding classes with a one to many relationship used in our labs.

Case Study – Bob’s Autos

Bob Smith owns Bob’s Autos a small business specializing in the repair and sale of older model vehicles. Each vehicle is classified by a Manufacturer and Model.

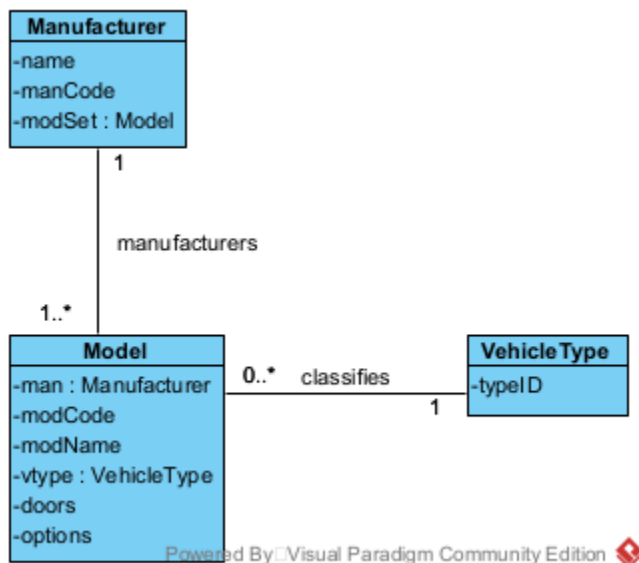
Manufacturers are the companies that make the vehicles and models are the styles of vehicles that the manufacturer makes. For example, I own a Hyundai Elantra which means that the Manufacturer is Hyundai and the model is Elantra. The Elantra model is a small sedan style vehicle. My daughter owns a Hyundai Tucson. The manufacturer is the same, Hyundai, but my daughter’s Tucson is a Cross Over Sport Utility Vehicle and is larger than my Elantra.

User Story

I would like to record manufacturers and models associated with the manufacturer

Acceptance Criteria:

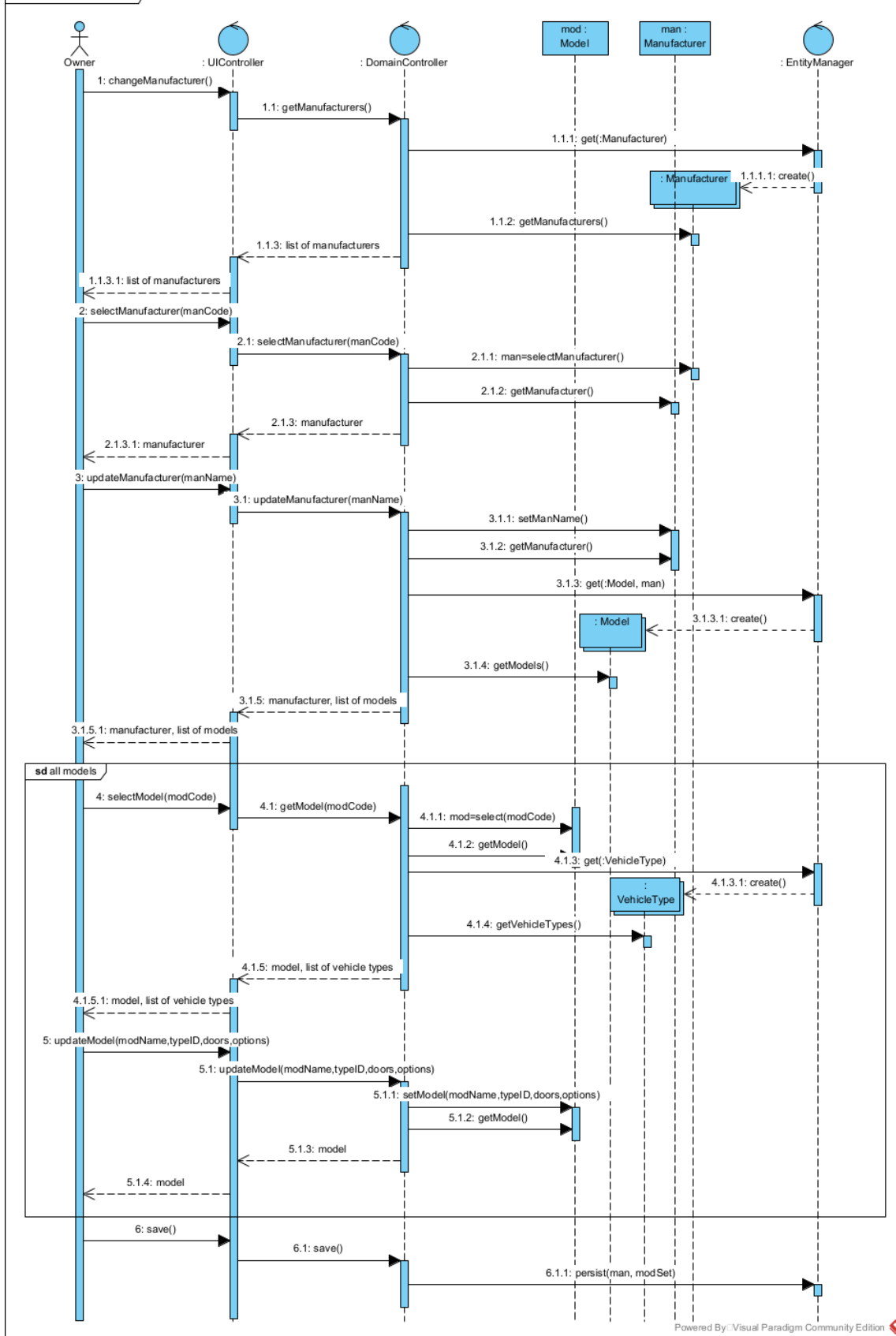
1. Must be able to add a manufacturer and a list models for that manufacturer
2. Must be able to delete manufacturers and/or lists of models for that manufacturer
3. Must be able to update manufacturers and/or list of models for that manufacturer
4. Must be able to query lists of manufacturers and associated models.



Use Case Name	Change a manufacturer and models
Triggering Event	Error was made in creating the manufacturer
Brief Description	Allows the Owner to modify a manufacturer and list of models
Actors	Owner
Related Use Cases	

Preconditions	Owner has opened the Main Menu.		
Post Conditions	manufacturer is update and available to query		
Flow of activities	Actor		System
	1.	Requests to change a manufacturer	Displays a list of manufacturers including manufacturer name and code and prompts to select manufacturer
	2.	Selects manufacturer	Display Manufacturer. Prompts for updates
	3.	Updates the Manufacturer.	Displays the Manufacturer. Displays a list of models including name, vehicle type, number of doors, options and prompts for selection
	loop	Selects the model	Displays the selected model including name, vehicle type, doors and options. Displays a list of vehicle types. Prompts for changes to name, vehicle type, number of doors and options
	4.	Updates model, changing vehicle type, name, number of doors and options as required.	Displays the Manufacturer. Displays a list of models including name, vehicle type, number of doors, options and prompts for selection.
	End loop	Repeats above step until all models have been entered	Prompts for confirmation
	5.	Confirms entry	Saves the manufacturer and models and returns to the main menu
Exception Conditions	<ul style="list-style-type: none"> Owner chooses to cancel updating the manufacturer 		

sd changeManufacturer



Use Case Name	Deletes models from a manufacturer		
Triggering Event	Decision was made to no longer service a model.		
Brief Description	Allows the Owner to delete models from a manufacturer		
Actors	Owner		
Related Use Cases			
Preconditions	Owner has opened the Main Menu.		
Post Conditions	manufacturer is update and available to query		
Flow of activities	Actor		System
	1.	Requests to delete models from a manufacturer	Displays a list of manufacturers including manufacturer name and code and prompts to select manufacturer
	2.	Selects manufacturer	Display Manufacturer. Displays a list of models including name, vehicle type, number of doors, options and prompts for selection
	loop	Selects the model	Removes the model. Displays the Manufacturer. Displays a list of models including name, vehicle type, number of doors, options and prompts for selection.
	End loop	Repeats above step until all models have been entered	Saves the manufacturer and models and returns to the main menu
Exception Conditions	<ul style="list-style-type: none"> Owner chooses to cancel removing models from the manufacturer 		
	<ul style="list-style-type: none"> 		

