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.

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 query lists of manufacturers and associated models.

|  |  |  |  |
| --- | --- | --- | --- |
| Use Case Name | Create a manufacturer | | |
| Triggering Event | Listing a vehicle for a new manufacturer | | |
| Brief Description | Allows the Owner to create a manufacturer | | |
| Actors | Owner | | |
| Related Use Cases |  | | |
| Preconditions | Owner has opened the Main Menu. | | |
| Post Conditions | manufacturer is added and available to query | | |
| Flow of activities | Actor | | System |
|  |  | Requests to add a new manufacturer | Displays a list of manufacturers and prompts for manufacturer name and manufacturer code |
|  |  | Enters manufacturer code and manufacturer name | Verifies that manufacturer code is unique and manufacturer name has been entered. Displays the new manufacturer. Prompts for model name and options |
|  |  | Enters model name and options | Verifies that model name has been entered. Generates a unique identifier for the model.  Displays Model. Prompts for model name and options. |
|  |  | Repeats above step until all models have been entered | Prompts for confirmation |
|  |  | Confirms entry | Saves the manufacturer and models and returns to the main menu |
| Exception Conditions | * Owner chooses to cancel adding the manufacturer | | |

A diagram of a model

Description automatically generated

A diagram of a computer

Description automatically generated