**Casual Use Case Specification: UC01 MaintainListOfRentalEquipment**

**Brief Description:**

This Use Case enables the Rental Manager to add a new equipment to the system, update the equipment’s information such as the stored location, the available status, the borrower and condition of equipment and remove equipment. The Manager can also set up the alert when the equipment is on low status.

# Section 1: Business Rule(s):

BR 01:

Every kind of equipment must have 1 item available for display and sampling

BR 02:

Any equipment cost over 1000CAD must report to Store Manager to have a permission.

BR 03:

Each customer can have maximum 7 days for rent.

BR 04:

Customer who use our store services over 10 times can get 10% off member card.

BR 05:

Equipment is rented each time must be inspected and update the condition to the system.

# Section 2: Scenarios (HD):

**Scenario 1: Add new equipment**

# Preconditions

* Actor has all the information available for recording the new equipment
* Actor has already logged in the system
* System is displaying equipment list
* System has the Add function

| **Step#** | **Actor (RentalManager)** | **System** | **Data Used** |
| --- | --- | --- | --- |
| 1 | Request to add new equipment | Display the options of equipment’s types that classify the equipment | equipmentType |
| 2 | Choose the type of equipment in the category | Display a form for filling the equipment information |  |
| 3 | Enter the equipment data into the form:  Name, ID, price, quantity, etc. |  | equipmentName,  equipmentID,  rentPrice,  supplierID,  quantity,  minimumQuantity,  rentingTimes,  locationName, |
| 4 | Complete data entry | Validate data’s information and  Display the confirmation | equipmentName,  equipmentID,  rentPrice,  supplierID,  quantity,  minimumQuantity,  rentingTimes,  locationName, |
| 5 | Confirm the information by putting the userID and date and submit it | Save the new equipment into the system  Return to the full equipment list display  Pop-up successful added message | message,  addDate,  addUserID |

**Successful Post-Conditions:**

* New equipment is added to the system.
* Equipment inventory is organized
* Back to the equipment list display

**Scenario 2: Update equipment information**

# Preconditions

* Actor has all the information available for update
* Actor has already logged in the system
* System is displaying equipment list
* System has the Update and Search functions
* System allows user to modify all the information

| **Step#** | **Actor (RentalManager)** | **System** | **Data Used** |
| --- | --- | --- | --- |
| 1 | Select searching tool for look up the specific equipment which need to update its information | Request the equipment ID | equipmentID |
| 2 | Enter the equipment ID | Look up and display the equipment information | equipmentName,  equipmentID,  rentPrice,  supplierID,  quantity,  minimumQuantity,  rentingTimes,  locationName, |
| 3 | Request to update the information | Display the form for modifying information | equipmentName,  equipmentID,  rentPrice,  supplierID,  quantity,  minimumQuantity,  rentingTimes,  locationName, |
| 4 | Modify the information |  | equipmentName,  equipmentID,  rentPrice,  supplierID,  quantity,  minimumQuantity,  rentingTimes,  locationName, |
| 5 | Complete data entry | Validate data’s information and  Display the confirmation | equipmentName,  equipmentID,  rentPrice,  supplierID,  quantity,  minimumQuantity,  rentingTimes,  locationName, |
| 6 | Confirm the information by putting the user ID and date and submit it | Save the update information to the system  Return to the full equipment list display  Pop-up successful added message | message,  updateDate,  updateUserID |

**Successful Post-Conditions:**

* Existing equipment information is updated in to the list system.
* Back to the equipment list

**Scenario 3: Data used**

|  |  |
| --- | --- |
| **Class** | **Data used** |
| Equipment | equipmentName, equipmentID, equipmentPrice, rentPrice, minimumQuantity, rentingTimes,  Inventory: equipmentType, quantity, locationID,  Supplier: supplierID, |
| Supplier | supplierName, supplierID, supplierEmail, supplierAddress |
| Location | locationName, locationID |
| Inventory | equipmentType, quantity, Location: locationID |
| Message | message |
| ConfirmInformation | updateDate, updateUserID, addDate, addUserID |