**Project Use Case Definitions**

**1:**

**Name:** Add Product

**Identifier:** UC21

**Description:** Input a new item to rent into the system for customers to choose from. Include important details like productid, product name, unit price, picture, quantity

**Preconditions:**

Employee must be authorized to add item

Item can’t already be in system

**Postconditions:**

Item is in system inventory

Item can now be chosen to be rented

**2:**

**Name:** Modify Product

**Identifier:** UC22

**Description:** Edit attributes of a pre-existing inventory item

**Preconditions:**

Employee must be authorized to edit item

Item must already exist

**Postconditions:**

Item’s attributes are different than they were

**3:**

**Name:** Delete Product

**Identifier:** UC23

**Description:** Delete a pre-existing inventory item

**Preconditions:**

Employee must be authorized to delete item

Item must already exist

**Postconditions:**

Item is no longer in the system and no longer available to rent.

**4:**

**Name:** Search for Product

**Identifier:** UC24

**Description:** Iterates through inventory to find items that are attached to search keywords.

**Preconditions:**

Employee must be authorized to access inventory

Items must already exist

Items must have known names/ID numbers

**Postconditions:**

Item will be found

**5:**

**Name:** Inventory Visualization

**Identifier:** UC25

**Description:** Interface for viewing inventory database

**Preconditions:**

Employee must be authorized to access inventory

Items must exist in the database

**Postconditions:**

Inventory is viewable

**Course of Actions:**

**Use Case 1:**

1. The use case begins when an employee wants to input a new rentable item
2. The employee log into the rentals website with company-given username and password to be authorized
3. System allows employee in by checking whether or not the employee is allowed to edit within the system [Alt course A]
4. System shows general interface for rentals, giving the employee the option on what to do
5. The employee picks to add a product [Alt course B]/[Alt course C]
6. The system shows the add product interface to the employee
7. The employee inputs the information regarding the product, i.e. item name, item ID, item price…
8. The system asks employee if this is all the information on the gear [Alt course D]
9. The system checks that the item didn’t exist prior to this input [Alt course E]
10. The system embeds the new product into the inventory
11. The system shows a confirmation notice to tell the employee it was successful
12. The use case ends

Alt Course A:

A.1 Employee isn’t registered/authorized to be in the system

A.2 System shows access denial

A.3 End use case

Alt Course B:

B.1. Employee picks modify products

B.2. Use case 2 begins at step 5

B.3. End use case

Alt Course C:

C.1. Employee picks delete products

C.2. Use case 3 begins at step 5

C.3. End use case

Alt Course D:

D.1. The employee says that’s not all of the information

D.2. Normal course restarts at step 7

Alt Course E

E.1. The system finds that the item existed prior to this addition

E.2. The system alerts the employee

E.3. Trace back to normal course of actions, step 7

**Use Case 2:**

1. The use case begins when an employee wants to input a new rentable item
2. The employee log into the rentals website with company-given username and password to be authorized
3. System allows employee in by checking whether or not the employee is allowed to edit within the system [Alt course A]
4. System shows general interface for rentals, giving the employee the option on what to do
5. The employee picks to modify pre-existing products [Alt course B]/[Alt course C]
6. The system shows pre-existing products inventory to employee
7. The employee chooses the item that they want to modify
8. The system shows the employee the item edit screen
9. The employee adds new information/different information to the item
10. The system updates through as the employee edits information
11. The employee hits submit when finished with editing
12. The system checks with the employee that they are done updating through a pop-up notice
13. The employee clicks yes [Alt course D]
14. The system shows a confirmation notice to tell the employee it was successful
15. The use case ends

Alt Course A:

A.1 Employee isn’t registered/authorized to be in the system

A.2 System shows access denial

A.3 End use case

Alt Course B:

B.1. Employee picks add products

B.2. Use case 1 begins at step 5

B.3. End use case

Alt Course C:

C.1. Employee picks delete products

C.2. Use case 3 begins at step 5

C.3. End use case

Alt Course D:

D.1. The employee clicks no that’s not all of the information

D.2. Normal course restarts at step 7

**Use Case 3:**

1. The use case begins when an employee wants to input a new rentable item
2. The employee log into the rentals website with company-given username and password to be authorized
3. System allows employee in by checking whether or not the employee is allowed to edit within the system [Alt course A]
4. System shows general interface for rentals, giving the employee the option on what to do
5. The employee picks to delete a pre-existing product [Alt course B]/[Alt course C]
6. The system shows pre-existing products inventory to employee
7. The employee selects the item that they want to delete
8. The employee clicks delete button
9. The system check with employee that they are sure about deleting this item through pop-up window
10. The employee clicks yes [Alt course D]
11. The system updates inventory according to the employee’s deletion
12. The system shows a confirmation notice to tell the employee it was successful
13. The use case ends

Alt Course A:

A.1 Employee isn’t registered/authorized to be in the system

A.2 System shows access denial

A.3 End use case

Alt Course B:

B.1. Employee picks add products

B.2. Use case 1 begins at step 5

B.3. End use case

Alt Course C:

C.1. Employee picks modify products

C.2. Use case 2 begins at step 5

C.3. End use case

Alt Course D:

D.1. The employee says that’s not the right item

D.2. Normal course restarts at step 7

**Use Case 4:**

1. Use case begins by employee wants to search up a specific item
2. The employee logs into the rentals website with company-given username and password to be authorized
3. System allows employee in by checking whether or not the employee is authorized to look in the system [Alt Course A]
4. The system shows the employee the general interface, giving the employee options on what to do
5. The employee selects the search bar
6. The employee types into the bar what item they are looking for
7. The system iterates through all items to find ones related to search [Alt course B]
8. The employee selects the item they were looking for
9. The system shows the item’s details screen
10. Use case ends

Alt Course A:

A.1 Employee isn’t registered/authorized to be in the system

A.2 System shows access denial

A.3 End use case

Alt Course B:

B.1. System finds nothing related to search

B.2. System shows pop-up alerting employee that there’s nothing related

B.3. Use case returns to step 6

**Use Case 5:**

1. The use case begins by the user looking to view the general inventory
2. The employee logs into the rentals website with company-given username and password to be authorized
3. System allows employee in by checking whether or not the employee is authorized to look in the system [Alt Course A]
4. The system shows the employee the general interface, giving the employee options on what to do
5. The employee selects inventory button to view inventory
6. The system pops up with the inventory [Alt course B]
7. Use case ends

Alt Course A:

A.1 Employee isn’t registered/authorized to be in the system

A.2 System shows access denial

A.3 End use case

Alt Course B:

B.1. There is no inventory to look at yet

B.2. The system alerts employee through pop-up

B.3. The use case ends