**Use case for operations**

**Add Client**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **User action** |  | **System response** |
| **1.** | Client provides a name and address to the system. |  |  |
|  |  | **2.** | System validates that the information provided is not a duplicate.  If it is, display message and go to step 1.  otherwise go to step 3. |
|  |  | **3.** | System generates a unique CID. |
|  |  | **4.** | System adds client entry to client database file |
|  |  | **5.** | Generate Client Wishlist |
|  |  | **6.** | System states Client ID and displays a success message, and asks if the user wants to add more clients |
| **7.** | Client responds yes or no to adding more clients. |  |  |
|  |  | **8.** | If the client response is yes,  Go to step 1, otherwise go to step 8. |
|  |  | **9.** | System ends interaction. |

**Add products**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **User Action** |  | **System response** |
| **1.** | The user provides a name, amount in stock, sale price, and description of a product. |  |  |
|  |  | **2.** | System validates that the information provided is not a duplicate.  If it is, display message and go to step 1.  otherwise go to step 3. |
|  |  | **3.** | System generates a unique PID. |
|  |  | **4.** | System adds product entry to Product database file |
|  |  | **5.** | System states Product ID and displays a success message and asks if the user wants to add more products. |
| **6.** | The user responds yes or no to adding more products. |  |  |
|  |  | **7.** | If the user response is yes,  Go to step 1, otherwise go to step 8. |
|  |  | **8.** | System ends interaction. |

**Add existing product to an existing client’s wish list**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **User Action** |  | **System response** |
| 1. | User provides client credentials |  |  |
|  |  | **2.** | Credentials are validated by looking at the client file to see if the information provided matches anything in the file.  If there is an entry with the provided credentials, go to step 3.  If there is no matching entry display a message and go to step 1. |
|  |  | **3.** | System provides a list of products from the product file. |
| **4.** | User picks a product by typing the product ID and quantity to add to their wish list |  |  |
|  |  | **5.** | Check that there are enough products in stock for the order.  If not, display a warning and go to step 6  If there is, go to step 9 |
|  |  | **6.** | Ask if it’s ok to be put on the waitlist |
| **7.** | user enters response |  |  |
|  |  | **8.** | System reads response,  If yes, go to 9  If no, go to 4 |
|  |  | **9.** | Add product and quantity to client’s wish list |
|  |  | **10.** | Ask if there are more products to add |
| **11.** | User enters response |  |  |
|  |  | **12.** | Check response  If yes, go to step 4  If no, terminate interaction |

**Q2./Q3.**

**Queries system provides**

* View the list of all clients
* View the list of all products
* View transaction history
* View the inventory waitlist

**Use case for Queries in Q2**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **User Action** |  | **System Response** |
| **1.** | User specifies list command |  |  |
|  |  | **2.** | System asks what to list  Displays options |
| **3.** | User enters option choice |  |  |
|  |  | **4.** | Checks response  If Client go to 5  If Product go to 6  If waitlist go to 7  If transaction history, ask for client ID and go to 8. |
|  |  | **5.** | System reads client database and prints all entries |
|  |  | **6.** | Systems reads product database and prints all entries |
|  |  | **7.** | System reads waitlist database and prints all entries |
| **8.** | User enters client ID |  |  |
|  |  | **9.** | System reads transaction history for selected client and prints all entries |