|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Use case: | | **Sign up for frequent shopper club** | | |
| Actors: | | Customer; Headquarter | | |
| Purpose: | | Signup a customer for frequent shopper club | | |
| Overview: | | A customer request to become a member of the supermarket. The system adds the customer to the frequent shopper club. On completion, the system provides the customer a membership number and a temporary membership card prints for the customer. The headquarters office prints and mails out permanent membership cards to customer. | | |
| Type: | | Essential | | |
| Preconditions: | | Customer never registered for frequent shopper club. | | |
| Postconditions: | | Customer was enrolled in the frequent shopper club. | | |
| Special Requirements: | | Customer must get a system respond within 10 seconds. | | |
|  |  | | | |
| **Flow of Events** | | | | |
| **ACTOR ACTION** | | | **SYSTEM RESPONSE** | **ACTOR ACTION** |
| 1. This use case begins when a customer desires to register for the frequent shopper club. | | |  |  |
| 2. Customer enters name, address, phone number, and other information through a user interface located in a kiosk at each supermarket location. | | |  |  |
|  | | | 3. Add customer to the frequent shopper club if customer's information is valid. |  |
|  | | | 4. Assigned a membership number to customer. |  |
|  | | | 5. Print out a temporary membership card. |  |
| 6. The customer receives the temporary membership  Card. | | |  |  |
|  | | |  | 7. The headquarters office prints and mails out the  permanent membership card. |
| 8. The customer receives the official membership card. | | |  |  |
| **Alternative Flow of Events** | | | | |
| Line 3: | Invalid name. Indicate error. Return to step 2. | | | |
|  | Invalid address. Indicate error. Return to step 2. | | | |
|  | Invalid phone number. Indicate error. Return to step 2. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| Use case: | | **Remove out-of-date inventory** | |
| Actors: | | Employee | |
| Purpose: | | Remove out-of-date inventory from the supermarket location. | |
| Overview: | | An employee checks the products on the shelves to remove out-of-date inventory. The employee entered the removed item and amount into the system. The system subtracts the quantity of item from its inventory. On completion, the system saves the updates the inventory. | |
| Type: | | Essential | |
| Preconditions: | | Product is known by the system.  packed with a UPC barcode or can be identified by a 4-digit product code. | |
| Postconditions: | | Inventory is then updated to reflect lowered inventory. | |
| Special Requirements: | | Employee must get a system respond within 10 seconds. | |
|  |  | | |
| **Flow of Events** | | | |
| **ACTOR ACTION** | | | **SYSTEM RESPONSE** |
| 1. This use case begins when an employee needs to check the products on the shelves. | | |  |
| 2. Employee compares the product expiration date to today’s date and determine if the product is out-of-date. | | |  |
| 3. Employee bring all the out-of-date item to computer. | | |  |
| 4. Employee enters the UPC barcode or the 4-digit product code for the item that is out-of-date. | | |  |
|  | | | 5. Ask for the quantity of the item that has been entered. By weight for those items sold by weight, by count for items sold by count, etc.. |
| 6. Employee enters the number of units for the product that is out-of-date. | | |  |
| 7. On completion of entry of the product removed, the employee indicates that the request is complete. | | |  |
|  | | | 8. Subtract the quantity of item from its inventory. |
|  | | | 9. Save the updated inventory. |
|  | | | 10. Pop out a notification window with words “inventory is now updated”. |
| **Alternative Flow of Events** | | | |
| Line 5: | Invalid UPC barcode. Indicate error. Return to step 4. | | |
|  | Invalid 4-digit product code. Indicate error. Return to step 4. | | |
| Line 8: | Invalid quantity. Indicate error. Return to step 6. | | |