Document containing the processed requirements of the client

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User Requirement Specifications

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# Client Agreements

Through my client meetings with Mrs. Chua Jessie, we have agreed to adhere to the following:

* Meetings will occur every Tuesday at 9.00 early in the morning
* Any change to the project should be discussed in any of those meetings
* The requirements for this application should be FR-05 (Advertisement) and FR-09 (Favourite List)

# Non-functional requirements

### NFR-1

Maintainable and extendable  
Proper OO principles must be applied to ensure good maintainability and extensibility of the   
code base.

### NFR-2

Bug free system   
Appropriate testing techniques must be used when implementing the system to ensure   
proper functioning and delivering of a bug free application

### NFR-3

Secure software   
Only authorized people may make use of the system and can only access data they are   
authorized for. Passwords and user input must also be handled appropriately.

# Functional requirements

Any new requirements that could be implemented should the timeslot allows, must be discussed with the client prior to implementation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Importance | Category | ID | Title | Description |
| Must |  | FR-1 | Manage the catalogue with items (groceries and goods) | Employees at the back office must be able to manage (perform CRUD operations) the items  of the company’s inventory. Make sure to include the information given in Process of Managing item (grocery and goods) information Phase 1. |
| Must |  | FR-2 | Support of placing order process | When a customer is interested in buying items online, they can visit the website of the company and place an order. |
| Must |  | FR-5 | Advertisement | Based on certain market analysis, employees at the back office must be able to put advertisement for selected items. An employee needs first select popular items, specify discount (bonus), the discount week (start and end dates), and then put them on an advertisement page. |
| Must |  | FR-9 | Favourite list of items | Extend the solution to also allow customers to select items and add them into the favourite list. A customer should be able to move all, some or one item from the favourite list to the  shopping cart for next purchase. |

## Use cases

### UC-01 - Logging in

Actor – Employee

#### Main Success Scenario

1) Actor enters correct email in the login page

2) Actor enters correct password in the login page (interchangeable with step 1)

3) Actor logs in

4) System verifies if the credentials are correct and proceeds to show logged-in-user content.

#### Extensions

1a) Actor enters an incorrect email not matching the password which will be entered in step 2.

.1 display invalid information message.  
.2 return to MSS step 1

2a) Actor enters an incorrect password not matching the email which will be entered in step 1.

.1 display invalid information message.  
.2 return to MSS step 2.

### UC-02a – Place Order

Actor – Customer

#### Main Success Scenario

1) Actor chooses an item from a list

2) System adds to shopping cart chosen item

3) Actor repeats 1) until actor is satisfied

4) Actor goes to his shopping cart and places the order

5) System verifies data from shopping cart

#### Extensions

1a) Actor skips step 1) and goes directly to 4)

.1 display message saying “Cart is empty”.  
 .2 return to MSS step 1.

### UC-02b – Edit Order

Actor – Customer

#### Main Success Scenario

1. Actor already has some items in the shopping cart
2. Actor removes item from Shopping Cart
3. System removes the item from the shopping cart
4. System verifies data from the shopping cart

### UC-03a – Adding a new product

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1) Actor fills in product name, category, subcategory, price, unit, image

2) System verifies if the data is correct and stores the product information if so

#### Extensions

1a) Actor does not enter a product data

.1 display invalid information message.  
 .2 return to MSS step 1.

### UC-03b – Edit product data

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor selects product from list
2. System fills the form with the product data

3) Actor changes desired aspect of the product

4) System verifies if the data is correct and stores the product information if so

#### Extensions

1a) Actor does not enter product data

.1 display invalid information message.  
 .2 return to MSS step 1.

2a) Actor does not choose a product before entering data

.1 display select a product first message.  
 .2 return to MSS step 1.

### UC-03c – Mark product as unavailable

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor selects product from list
2. System registers the selection

3) Actor marks product

4) System proceeds to mark product data as invalid

#### Extensions

1a) Actor does not choose a product  
 .1 display invalid information message.

.2 return to MSS step 1.

Should the marked product be in customers order it will still be delivered to those customers but new customers will not be able to buy it.

### UC-04a – Sign in

Actor – User

#### Main Success Scenario

1) Actor enters user name, mail, password

2) System registers information

3) Actor creates the account

4) System verifies if the credentials are correct and proceeds to add the data about the employee.

#### Extensions

1a) Actor enters an email that already exists.

.1 application returns multiple users with the same name.  
 .2 return to step MSS 1.

2a) Actor does not enter any information.  
 .1 display invalid information message  
 .2 return to step MSS 1.

### UC-04b – Edit an employee

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor selects an employee from a list
2. System registers selection and fills the form with employee data
3. Actor edits the information (email, name) about the employee
4. System verifies if the credentials are correct and stores the information if so

#### Extensions

1a) Actor does not enter any information.  
 .1 display invalid information message  
 .2 continue to MSS step 2.

2a) Actor enters an email that is already used

.1 display email already used message

.2 continue to MSS step 2

### UC-05a – Add item to Favourite list

Actor – Customer

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor adds a product from the catalogue list
2. System proceeds to adding the product data as a favourite

#### Extensions

1a) Item already exists in the favourite list.  
 .1 display message “Already in the favourites”.  
 .2 return to MSS step 1.

2a) Actor is not logged in

.1 display message Not logged in  
 .2 return to MSS step 1.

### [UC-05b –](#_FR-5) Remove item from Favourite list

Actor – Customer

Pre-condition: Actor is logged in

#### Main Success Scenario

1) Actor removes from Favourites in the Favourites tab page

2) System verifies the information and add them to the database.

#### Extensions

1a) Actor is not logged in

.1 display message Not logged in  
 .2 return to MSS step 1.

### UC-06a – Add new Category

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor adds new Category name
2. System verifies if data already exists and stores it

#### Extensions

1a) Category already exists.  
 .1 display message “Category already exists”.  
 .2 return to MSS step 1.

### [UC-06b –](#_FR-5) Edit Category

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor selects an existing category from the Category manager page
2. System fills the form with category information
3. Actor edits the category information
4. System verifies the information and add them to the database.

#### Extensions

1a) Actor does not add information

.1 display invalid information message  
 .2 continue to MSS step 3.

### UC-07a – Add new Sub-Category

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor selects a category
2. System registers selection
3. Actor adds new Sub-Category name
4. System verifies if data already exists and stores it

#### Extensions

1a) Category already exists.  
 .1 display message “Sub-Category already exists”.  
 .2 return to MSS step 1.

2a) Actor does not select a category.  
 .1 display message “Please select a category first”.  
 .2 return to MSS step 1.

### [UC-07b –](#_FR-5) Edit Sub-Category

Actor – Employee

Pre-condition: Actor is logged in

#### Main Success Scenario

1. Actor selects an existing category from the Category manager page
2. System fills the form with category information
3. Actor selects an existing sub-category from the Category manager page
4. Actor edits the sub-category information
5. System verifies the information and add them to the database.

#### Extensions

1a) Actor does not add information

.1 display invalid information message  
 .2 continue to MSS step 3.

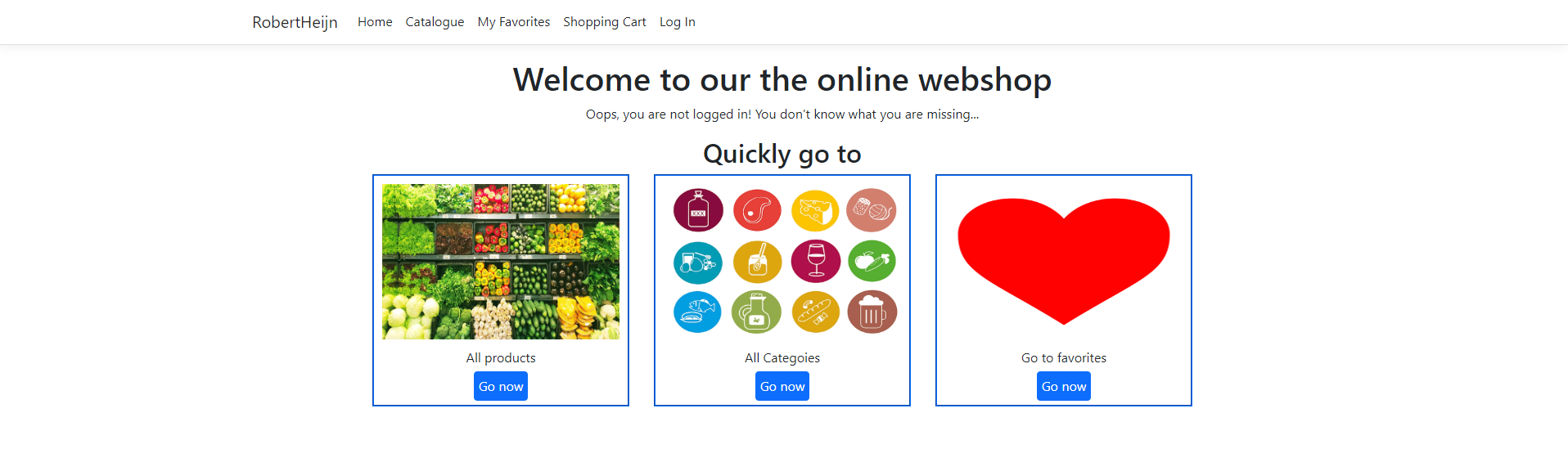
2a) Actor does not select a category.  
 .1 display message “Please select a category first”.  
 .2 return to MSS step 1.

2a) Actor does not select a sub-category.  
 .1 display message “Please select a sub-category first”.  
 .2 return to MSS step 1.

### Screen prints and webpage

#### Landing page

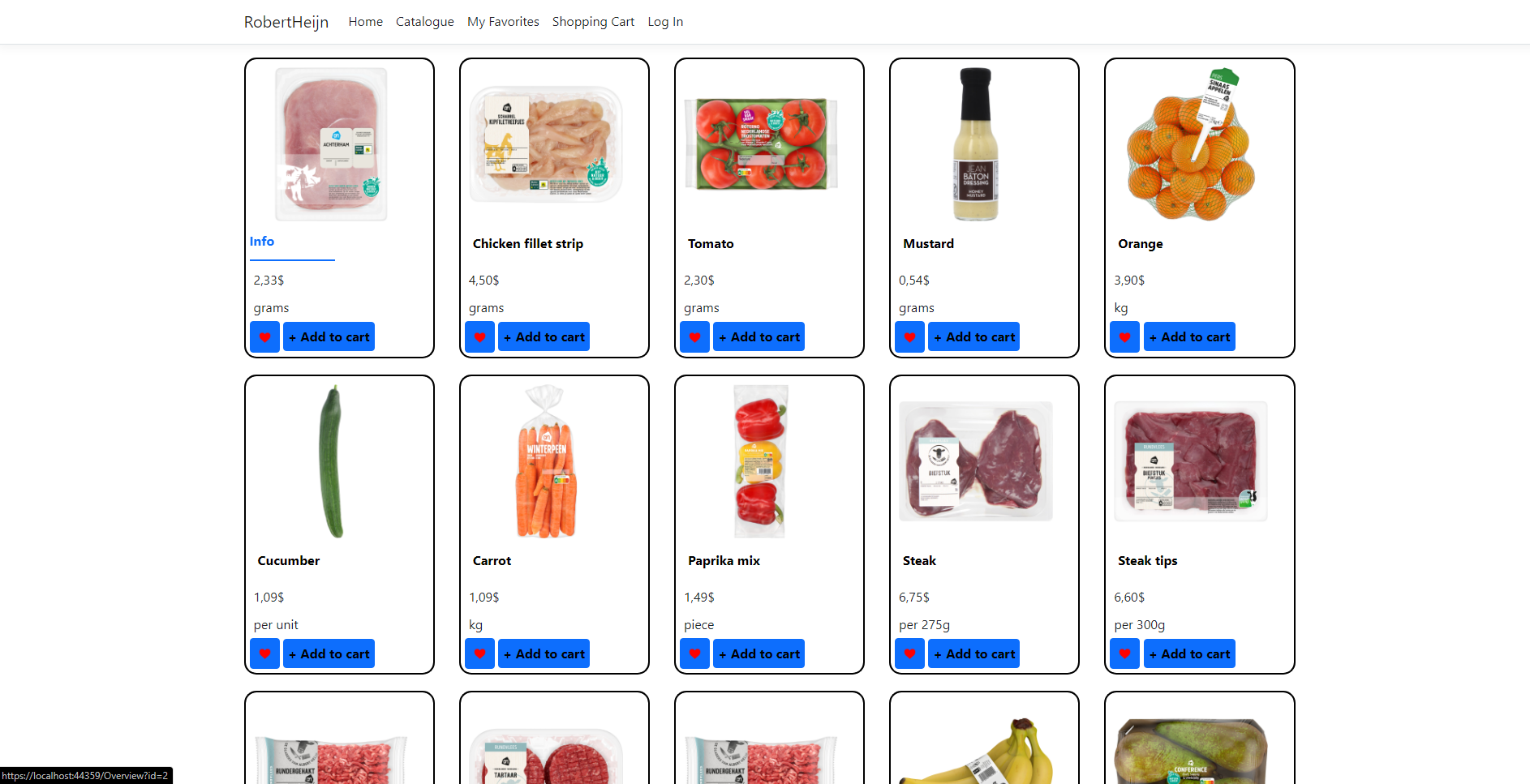
This page is the landing page. It will be the first this the customer sees when entering the website. From here he can quickly go to see all the products, filter them by category or visit his favourite items.



#### Catalogue

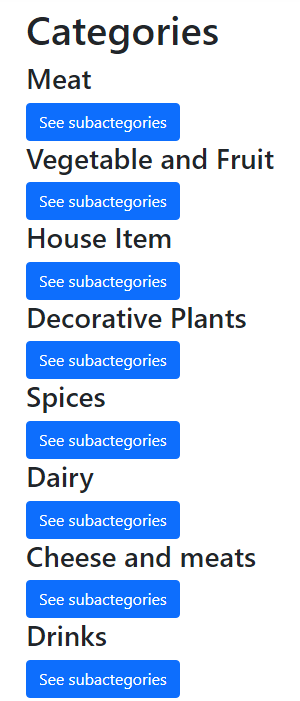
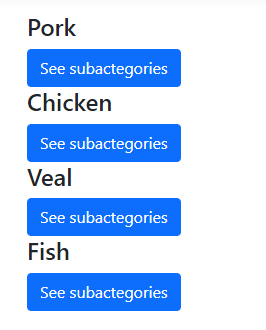
This page is the catalogue page. The customer can see all the products in the system on this page.

From this page Actor can add items to cart (UC-2a) or add to favorites (UC-5a).



From the landing page, the catalogue can also be filtered by categories and sub-categories.

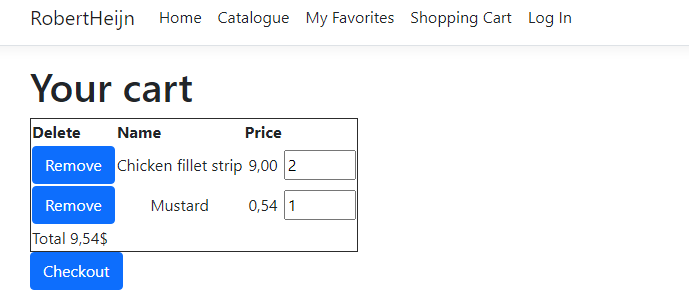
Categories: Sub-Categories of MEAT:

#### Cart

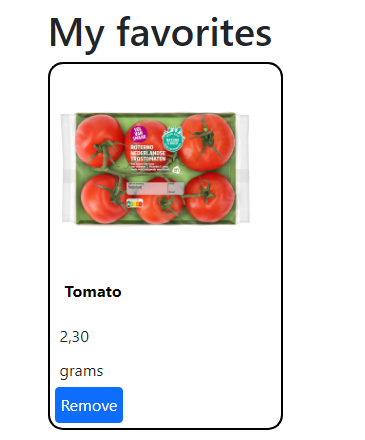
On this page the actor can view his shoppping cart.

The price of items is the sum of the quantity added to the cart.



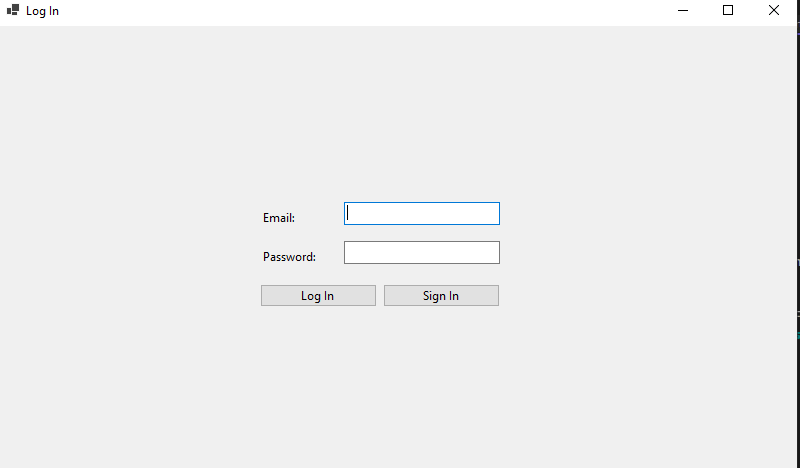
#### Favourites

On this page the actor can view his favorites and remove them if they see fit (UC-5b).



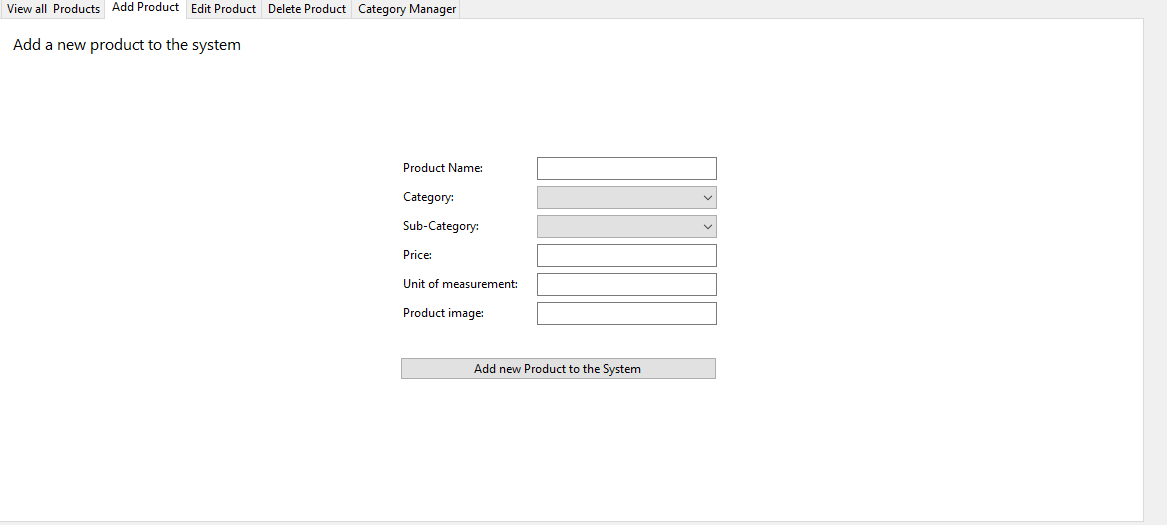
#### Log in for the Employees

The log ion page for employees. Here they can also sign in, meaning creating a new account (UC-4a).



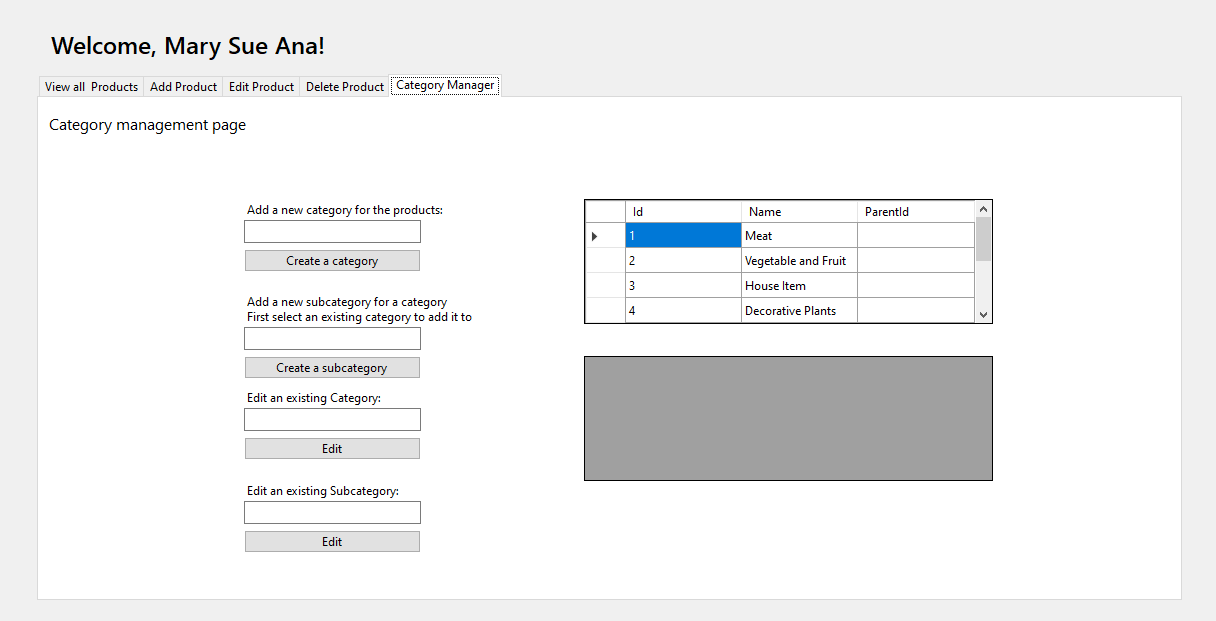
#### Add Product

In the product management the employee can add a new product.



#### Category Management

In the category management the employee can manage the data of both the categories and sub-categories (UC-6 and UC-7).



After the Actor selects a category and then a sub-category

