Document containing the processed requirements of the client

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User Requirement Specifications

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2022

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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. Make sure to at least follow the information given in Placing an order Phase 2. |
| 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 email textbox (indicated by a text label)

2) Actor enters correct password in the password textbox (also indicated by a text label, interchangeable with step 1)

3) Actor presses the button with text saying “Log 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 2

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.

3a) System is unable to verify the credentials due to communication issues with the backend.

.1 display connection error 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) Actor presses button saying “Add to shopping cart”

3) Actor repeats 1) and 2) until actor is satisfied

4) Actor presses the button with text saying “Order”

5) System verifies if the items added to the shopping cart exceeds the number 0

#### Extensions

1a) Actor skips step 1) and 2) and goes directly to 4)

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

2a) System is unable to verify the items due to communication issues with the backend.

.1 display connection error message.  
 .2 return to MSS step 4.

### UC-02b – Edit Order

Actor – Customer

#### Main Success Scenario

1. Actor adds new item to Shopping Cart
2. Actor removes item from Shopping Cart
3. Actor presses button “Order”
4. System verifies if the items added to the shopping cart exceeds the number 0

#### Extensions

1a) Actor skips step MSS 1. and 2. and goes directly to 3.

.1 Proceeds to step MSS 4. and checks

.2 If true finishes scenario

.3 If false, display message saying “Cart is empty”.

.4 return to MSS step 1.

2a) System is unable to verify the items due to communication issues with the backend.

.1 display connection error message.  
 .2 return to MSS step 4.

### UC-03a – Adding a new product

Actor – Employee

#### Main Success Scenario

1) Actor enters product name in a textbox (indicated by a text label)

2) Actor enters product category in a textbox (indicated by a text label)

3) Actor enters product sub-category in textboxes (indicated by text labels)

4) Actor enters product price in textbox (indicated by text label)

5) Actor enters product unit in textbox (indicated by text label)

6) Actor presses the button with text saying “Add product to system”

7) System verifies if the credentials are correct and stores the product information if so

#### Extensions

1a) Actor does not enter a product name

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

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

3a) Actor does not enter product category

.1 display invalid information message

.2 return to MSS step 3.

4a) Actor does not enter product sub-category

.1 display invalid information message

.2 return to MSS step 4.

5a) Actor does not enter product price

.1 display invalid information message

.2 return to MSS step 5.

6a) Actor does not enter product unit

.1 display invalid information message

.2 return to MSS step 6.

7a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 1.

### UC-03b – Edit product data

Actor – Employee

#### Main Success Scenario

1) Actor selects product from list

2) Actor presses the button saying “Edit”

3) Actor selects what information is needed to be changed and proceeds to change it

4) Actor presses the button saying “Done”

5) System verifies if the credentials are correct and stores the product information if so

#### Extensions

1a) Actor does not enter a product name

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

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

3a) Actor does not enter product category

.1 display invalid information message

.2 return to MSS step 3.

4a) Actor does not enter product sub-category

.1 display invalid information message

.2 return to MSS step 4.

5a) Actor does not enter product price

.1 display invalid information message

.2 return to MSS step 5.

6a) Actor does not enter product unit

.1 display invalid information message

.2 return to MSS step 6.

7a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 1.

### UC-03c – Remove product Information

Actor – Employee

#### Main Success Scenario

1) Actor selects product from list

2) Actor presses the button saying “Delete”

3) Actor confirms action

4) System proceeds to delete product data

#### Extensions

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

.2 return to MSS step 1.

2a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 2.

### UC-04a – Add an employee

Actor – Admin

#### Main Success Scenario

1) Actor enters employee name in a textbox (indicated by a text label)

2) Actor enters employee age in a textbox (indicated by a text label)

3) Actor enters employee address in a textbox (indicated by a text label)

4) Actor presses the button with text saying “Add new employee”

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

#### Extensions

1a) Actor enters a name that already exists.

.1 application returns multiple employees with the same name.  
 .2 continue to step MSS 4.

2a) Actor does not enter any name.  
 .1 display invalid information message  
 .2 continue to MSS step 4.

3a) Actor does not enter any age.

.1 display invalid information message

.2 continue to MSS step 4

4a) Actor does not enter any address.

.1 display invalid information message

.2 continue to MSS step 4

5a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 2.

### UC-04b – Edit an Employee

Actor – Admin

#### Main Success Scenario

1. Actor selects an employee from a list
2. Actor presses button saying “Edit”
3. Actor changes information about the employee
4. Actor presses button saying “Confirm”
5. System verifies if the credentials are correct and stores the information if so

#### Extensions

1a) Actor enters a name that already exists.

.1 application returns multiple employees with the same name.  
 .2 continue to step MSS 4.

2a) Actor does not enter any name.  
 .1 display invalid information message  
 .2 continue to MSS step 4.

3a) Actor does not enter any age.

.1 display invalid information message

.2 continue to MSS step 4

4a) Actor does not enter any address.

.1 display invalid information message

.2 continue to MSS step 4

5a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.

.2 return to MSS step 2.

### UC-04c – Remove an Employee

Actor – Admin

#### Main Success Scenario

1. Actor selects an employee from a list
2. Actor presses button saying “Delete”
3. Actor confirms action
4. System proceeds to deleting employee data

#### Extensions

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

.2 return to MSS step 2.

5a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 2.

### [UC-05 – Special case](#_FR-5)

Actor – admin

#### Main Success Scenario

1) Actor selects an animal.

2) Actor enters name of animal (if possible), animals’ issue and what to do with it. i.e., malnourished animal gets extra food.

3) Actor presses the button with text saying “Confirm”

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

#### Extensions

2a) Actor enters incomplete data.  
 .1 display invalid information message.  
 .2 return to MSS step 2.

4a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 2.

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

Actor – Customer

#### Main Success Scenario

1. Actor presses button saying “Add to favourite” from the desired product
2. System proceeds to adding a product data

#### Extensions

1a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 2.

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

Actor – Customer

#### Main Success Scenario

1) Actor presses the button “Remove from Favourite”

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

#### Extensions

1a) System is unable to verify the credentials due to communication issues with the backend.  
 .1 display connection error message.  
 .2 return to MSS step 2.