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# Functional requirements

## FR-01: Clients should be able to log in the system.

(Both on Desktop and Web applications)

*They can login if their data is in the database.*

## FR-02: Clients should be able to register in the system.

(Only on Desktop application)

## FR-03: Clients should be able to reset their password.

(Both on Desktop and Web applications)

*This is only done, if the client has logged in successfully.*

## FR-04: Clients should be able to search for products.

(Both on Desktop and Web applications)

*They can search by their name and description.*

## FR-05: Clients should be able to filter by products characteristics.

(Both on Desktop and Web applications)

*They can filter by category.*

## FR-06: Client should be able to sort products.

(Both on Desktop and Web applications)

*They can sort products by name, price and date added.*

## FR-07: Client should be able to see product details.

(Both on Desktop and Web applications)

*Shows product details.*

## FR-08: Clients should be able to add products to a shopping cart.

(Only on Desktop application)

## FR-09: The shopping displays details about the current order.

(Only on Web application)

*Displays products, quantity and total price.*

## FR-10: Clients should be able to make an order.

(Only on Web application)

## FR-11: Clients should be able to see their orders history.

(Only on Web application)

## FR-12: Clients should be able to manage system users.

(Only on Desktop application)

*This is only valid for clients with specific rights.*

## FR-13: Clients should be able to manage system products.

(Only on Desktop application)

*This is only valid for clients with specific rights.*

## FR-14: Clients should be able to review their information.

(Both on Desktop and Web applications)

*Displays on the user profile page.*

## FR-15: Customers should be able to redeem products using NutriPoints.

(Only on Web application)

*Part of the algorithmic part.*

# MSCW table

A screenshot of a graph

Description automatically generated

# Use Cases

## UC-01: Login

Actor: Owner, Staff and Customer

Main Success Scenario:

1. Actor goes to Login page
2. Actor fills in his login credentials
3. System authenticates the actor

Extensions:

3a: Wrong credentials

* System doesn’t authenticate the user

3b: Actor is logged

* System automatically redirects the user to the user profile page.

## UC-02: Register

Actor: Customer

Main Success Scenario:

1. Actor goes to Register page
2. Actor fills in details about his profile
3. System validates provided data
4. System creates a new actor
5. System redirects user to Login page

Extensions:

3a: Wrong data

* System doesn’t validate the user

3a: Actor already exists

* System doesn’t create the actor.
* System doesn’t validate the actor.

## UC-03: Resetting password

Actor: Owner, Staff and Customer

Main Success Scenario:

1. Actor logs in the system
2. Actor navigates to User profile page
3. Actor selects “Reset password” option
4. System reloads the form for resetting the password
5. Actor fills in his current and new password
6. System validates the changes

Extensions:

## UC-04: Products search

Actor: Owner, Staff, Customer and Guest

Main Success Scenario:

1. Actor navigates to the products page
2. Actor clicks on the search bar component
3. Actor fills in his search string
4. The system provides products based on the search

Extensions:

4a: Product doesn’t exist

* The system shows an empty page

## UC-05: Products filter

Actor: Owner, Staff, Customer and Guest

Main Success Scenario:

1. Actor navigates to the products page
2. Actor selects filters from the filter component
3. The system provides products based on the filter

Extensions:

3a: Products doesn’t exist

* The system shows an empty page

## UC-06: Products sorting

Actor: Owner, Staff, Customer and Guest

Main Success Scenario:

1. Actor navigates to the products page
2. Actor clicks on the sort component
3. Actor checks his sorting preference
4. The system provides products based on the sorting

Extensions:

## UC-07: Products details page

Actor: Owner, Staff, Customer

Main Success Scenario:

1. Actor navigates to the products page
2. Actor clicks on the product component
3. The system opens a new page with the product details

Extensions:

2a: The actor hasn’t been logged in

* The system redirects him to the Login page

## UC-08: Adding products to shopping cart

Actor: Owner, Staff, Customer and Guest

*They are all users of the system and can use their data.*

Main Success Scenario:

1. Actor navigates to the product page
2. Actor clicks “Add to Cart” button on Product component
3. The system checks availability
4. The system adds the product to the cart

Extensions:

3a: Product isn’t available

* The system would disable the button, which would cause it to be unusable.

## UC-09: Shopping cart displays current order

Actor: Owner, Staff, Customer and Guest

Main Success Scenario:

1. Actor adds a product to the shopping cart
2. Actor navigates to the shopping cart page
3. The system displays ordered product, quantity and total price

Extensions:

3a: The shopping cart is empty

* The system would show a message that the shopping cart is empty

## UC-10: Making order

Actor: Owner, Staff, Customer and Guest

Main Success Scenario:

1. Actor adds a product to the shopping cart
2. Actor navigates to the shopping cart page
3. Actor clicks on the “Order” button page.
4. The system checks product availability
5. The system decreases the product from the storage database
6. The system creates a record of the current order
7. The system displays a message with order result

Extensions:

4a: Product unavailable

* The system displays a message that the product is unavailable
* The system doesn’t allow the actor to proceed with his order

7a: Order was unsuccessful

* The system displays a message that the order failed and to try again

## UC-11: Orders history feature

Actor: Owner, Staff, Customer and Guest

Main Success Scenario:

1. Actor makes a successful order
2. Actor navigates to the “User profile” page
3. Actor selects the “Orders history” button
4. The system shows him a table with his orders data

Extensions:

3a: Actor has no orders

* The system displays a text saying “User has no orders”

## UC-12: Users creation

Actor: Owner

Main Success Scenario:

1. Actor navigates to “Users” page
2. Actor clicks on the “Add User” button
3. The system opens a new form
4. The actor enters new users’ data
5. The actor clicks on the “Submit” button
6. The system validates the user
7. The system adds the user to the database

Extensions:

6a: Actor has entered invalid data

* The system doesn’t allow the creation of the new user as it doesn’t proceed to submit the form

## Use Case UC-13: Updating User Details

Actor: Owner

Main Success Scenario:

1. Actor navigates to the "Users" page.
2. Actor selects the user whose details need to be updated.
3. Actor clicks on the "Edit" or "Update" button next to the selected user.
4. The system opens a form pre-populated with the user's existing data.
5. The actor modifies the user's data as needed.
6. Actor clicks on the "Submit" or "Update" button.
7. The system validates the updated user data.
8. The system updates the user's details in the database.

Extensions:

6a: Actor has entered invalid data.

* The system prevents the update of the user's data and displays an error message.

## Use Case UC-14: Deleting User

Actor: Owner

Main Success Scenario:

1. Actor navigates to the "Users" page.
2. Actor selects the user to be deleted.
3. Actor clicks on the "Delete" or "Remove" button next to the selected user.
4. The system displays a confirmation dialog or asks for confirmation.
5. Actor confirms the deletion by clicking "Yes" or a similar affirmative action.
6. The system removes the user's data from the database.

Extensions:

5a: Actor cancels the deletion.

* The system does not delete the user, and the user remains in the system.

## Use Case UC-15: Reading User Details

Actor: Owner

Main Success Scenario:

1. Actor navigates to the "Users" page.
2. Actor selects the user whose details they want to read.
3. The system displays the selected user's details, including but not limited to username, email, and role.

Extensions:

3a: User details are not found.

* The system displays an error message indicating that the requested user details could not be found or do not exist.

## Use Case UC-16: Redeeming Product with NutriPoints

Actor: Customer

Main Success Scenario:

1. Actor navigates to the "Products" page.
2. Actor selects a product with the category of “Redeem”
3. Actor adds it to the shopping cart
4. Actor makes the order
5. System checks the order validity
6. System makes the order with the redeemed product

Extensions:

5a: Actor doesn’t have enough NutriPoints.

* The system displays an error message indicating that the requested product needs more NutriPoints.