User Requirements Specification

FOR

RobertHeijn B.V



Contents

[Non-Functional requirements 3](#_Toc121780210)

[Functional requirements 3](#_Toc121780211)

[Must have 3](#_Toc121780212)

[Use Cases 4](#_Toc121780213)

[Desktop System: 4](#_Toc121780214)

[Security 4](#_Toc121780215)

[UC\_01: Login to the system. 4](#_Toc121780216)

[Employees 4](#_Toc121780217)

[UC\_02: Create a new employee? 4](#_Toc121780218)

[UC\_03: Changing an employee’s information? 5](#_Toc121780219)

[UC\_04: Set an employee as inactive.? 5](#_Toc121780220)

[Products 6](#_Toc121780221)

[UC\_01: Create a new product: 6](#_Toc121780222)

[UC\_02: Removing a product: 6](#_Toc121780223)

[UC\_03: Edit product: 7](#_Toc121780224)

[UC\_04: Making a product unavailable: 7](#_Toc121780225)

[Web system 7](#_Toc121780226)

[Security 7](#_Toc121780227)

[UC\_01: Login to the system. 7](#_Toc121780228)

[Orders 8](#_Toc121780229)

[UC\_02: Place an order: 8](#_Toc121780230)

# Agreements

There will be no stock management related features included in this solution. The customers can order as many products as needed.

# Non-Functional requirements

* NFR-01: Maintainable and extendable
  + Proper OO principles must be applied to ensure good maintainability and extensibility of the code base.
* NFR-02: Bug free solution
  + Appropriate testing techniques must be used when implementing the solution to ensure proper functioning.
* NFR-03: Secure software
  + Only authorized people may make use of the solution and can only access data they are authorized for. Passwords and user input must also be handled appropriately.

# Functional requirements

The actors using the system I am building should be able to manage employees, products, and orders within the new “RobertHeijn” online store.

## Must have

* The system should be maintainable and extendable.
* The system should be bug free.
* The system should be secure and protected with authentication.
* Manageable product catalogue
  + Create products
  + See products
  + Update product information
  + Make a product unavailable
* Manageable orders
  + Create orders
  + See orders
  + Delete an order
* Specifying delivery options
* User management?
* Track order statuses

# Use Cases

# Desktop System:

## Security

### UC\_01: Login to the system.

Actor: Admin or employee.

Main success scenario:

1. Actor opens the system.

2. System asks for username and password.

3. Actor enters personal login credentials.

4. System checks credentials.

5. Login is confirmed by system.

6. Actor can access the part of the system corresponding to its profile.

Extensions:

4b: Login credentials are incorrect.

1. System notifies actor that the credentials are incorrect.
2. User indicates the notification was read.
3. Return to MSS step 2.

4c: Not all fields are filled in.

1. System notifies actor to fill in all fields.
2. User indicates the notification was read.
3. Return to MSS step 2.

## Employees

### UC\_02: Create a new employee?

Actor: HR employee.

Main success scenario:

1.Actor goes to “Manage employees” tab.

2.System requests for a username and password about employee.

3.Actor fills in employee's information.

4.System checks if employee does not exist in the database.

5.System confirms that a new employee has been created.

Extensions:

3a: Not all fields are filled in

1. System displays a message informing the actor that not all fields are filled in.

2. Return to step 2 of MSS.

4b: Employee already exists.

1. The system notifies the actor that the employee already exists.

2. The actor indicates that the notification was read.

3. Return to step 2 of MSS.

### UC\_03: Changing an employee’s information?

Actor: Admin.

Main success scenario:

1. The actor searches and selects an employee in the “Manage employees” tab.

2. System fills in existing information about the employee.

3. The actor updates the given information about employee and confirms.

4. The system updates the database and confirms.

Extensions:

4a: No connection to the database available.

1. The system notifies the actor that there is no connection to the database.

2. Actor indicates the notification was read.

3. Return to step 3. of MSS.

### UC\_04: Set an employee as inactive.?

Actor: Admin.

Main success scenario:

1. The actor performs use case 03. till step 4.
2. The actor chooses a radio button to deactivate the employee and confirms.
3. System sends changes to database and confirms the employee has been deactivated.
4. Actor indicates the notification was read.

Extensions:

5a: No connection to the database available.

1. The application notifies the actor that there is no connection to the database.

2. Actor indicates the notification was read.

3. Return to step 1. of MSS.

## Products

### UC\_01: Create a new product:

Actor: Shop worker

Main success scenario:

1. The actor goes to the “Manage products” tab.
2. System requests the actor to fill in the new product’s information.
3. Actor fills in the new product information.
4. System checks if the product already exists in the database.
5. System confirms the new product is created.

Extension:

4b: Product already exists.

1. System notifies the user that the product already exists.

2. The user indicates the notification was read.

3. Return to step 3. of MSS.

### UC\_02: Edit product:

Actor: Shop worker

Pre-condition: Actor must search for a product and select it from a list in the “Manage products” tab.

Main success scenario:

1.Actor goes to the modification form by pressing a button.

2. System displays the current product information.

3. Actor makes changes to the product and confirms.

4. System displays a confirmation message and saves the changes.

Extension:

4a: Filled in information does not match the system criteria

1. System displays an error message informing the user of the problem

2.Returns to MSS step 3

### UC\_03: Making a product unavailable:

Actor: Shop worker

Pre-condition: Actor must edit an existing product from the “Manage products”.

Main success scenario:

1.Actor clicks a radio button to make product unavailable.

2.Actor confirms the changes.

3.The system displays a confirmation message and marks the product as unavailable.

4.End of use case.

# Web system

## Security

### UC\_01: Login to the system.

Actor: Admin or employee.

Main success scenario:

1. Actor opens the system.

2. System asks for username and password.

3. Actor enters personal login credentials.

4. System checks credentials in database.

5. Login is confirmed by system.

6. Actor can access the part of the system corresponding to its profile.

Extensions:

4a: No connection to the database available.

1. System notifies user there is no connection to the database.
2. User indicates the notification was read.
3. Return to MSS step 2.

4b: Login credentials are incorrect.

1. System notifies user that the credentials are incorrect.
2. Return to MSS step 2.

## Orders

### UC\_02: Place an order:

Actor: Customer

Pre-condition: Actor is logged in and has products in the cart.

Main success scenario:

1. The actor goes to the “Cart” page and selects to checkout.
2. System requests the actor to fill in a delivery form.
3. Actor fills in the new product information.
4. System stores the order and the worker to prepare it in the database and shows the “new order placed” confirmation.
5. Actor confirms.

Extension:?