Andrei Pieleanu

URS – User requirements specifications

# Introduction

As a company, ClothingStore Inc. would like a website from where the customers can have access to a wide variety of clothing items to buy from.

# Agreements & decisions

## Phase 1: Managing item (clothes) information

A shop employee must be able to manage (e.g., create) the item (grocery and goods) by specifying the following information:

* Name (e.g., Skirt)
* Sub-category (e.g., Dress)
* Category (e.g., Women’s clothing)
* Price (e.g., €14.99)
* Unit (e.g., 1 unit)

After creating the item, it should become available on the website for customers to buy it.

## Phase 2: Placing an order

When a customer is interested in buying items online, they can visit the website of the company, select, and add available items into the shopping cart. When all desired items are selected and added into the shopping cart, a customer can complete the order by checking out the shopping cart, selecting a payment method and providing shipping information.

## Phase 3: Processing a placed order

When an order is placed by a customer, a shop employee will start processing it for the delivery.

When all ordered items are collected and packed, a shop employee will change the status of the order.

## Phase 4: Tracking an order

A customer should be able to track the status of the recently placed orders and review their order history with all the details.

# Core requirements

## Functional requirements

### FR-01: Manage the catalogue with items (clothes)

Employees at the back office must be able to manage (perform CRUD operations) the items of the company’s inventory.

### FR-02: Support process of placing order

When a customer is interested in buying items online, they can visit the website of the company and place an order.

### FR-03: Manage the client’s addresses

Clients must be able to manage (perform CRUD operations) their own addresses.

### FR-04: Specifying delivery option

Extend the software solution to allow customers to select their preferred delivery option. At

the moment, customers can choose only one delivery option: home delivery.

### FR-05: Status of the order

When the status of the order is changed, a backoffice employee must be able to register it in the system, so that a customer of that order can track it.

## 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.

# Use cases

## Login to account

### Actor

All users

### Main Success Scenario

1. User goes on the website page
2. User inserts username and password
3. System validates the input
4. User is directed to the Home Page

### Extensions

1. Incorrect username or password
   1. System shows an error message
   2. System clears all fields
   3. Go back to MSS 2
2. Prohibited access (show workers on website and clients on desktop app)
   1. System shows an error message
   2. System clears all fields
   3. Go back to MSS 2

## Create new account

### Actor

Client

### Main Success Scenario

1. Client goes on the website page
2. Client presses on register button
3. Client inserts all required data
4. System validates the input
5. System creates a new account
6. System redirects the client to the login page

### Extensions

1. Not all credentials were filled up
   1. System shows an error message
   2. Go back to MSS 3

## Logout to account

### Actor

All users

### Main Success Scenario

1. User presses the logout button
2. System logs out the user
3. User is redirected to the ‘Login’ page

## Customer adds products to shopping cart

### Actor

Customer

### Pre-condition

Must be logged in as a customer. Customer must be in the ‘Catalogue’ page on the web app.

### Main Success Scenario

1. Customer specifies the amount to add for each product that he wants
2. Customer presses the ‘Add to cart’ button
3. System adds selected products to the customer’s shopping cart
4. System informs user about the result
5. System refreshes the page

### Extensions

1. Product is no longer available
   1. System informs the user about the error
   2. Reroute back to MSS step 1
2. User selects no product to add to cart
   1. System informs the user about the error
   2. Reroute back to MSS step 1

## Customer removes products from shopping cart

### Actor

Customer

### Pre-condition

Must be logged in as a customer. Customer must be in the ‘Shopping cart’ page on the web app.

### Main Success Scenario

1. Customer presses ‘Remove’ button for each item that he would like to remove
2. System removes the corresponding item from the shopping cart
3. System refreshes the web page

### Extensions

1. User does not select any item to remove
   1. System shows an error, stating that no items have been selected
   2. Reroute back to MSS step 1
2. Item is no longer available (shop worker sets the item to ‘inactive’)
   1. System informs the user about the error
   2. Reroute back to MSS step 1

## User adds a new home address

### Actor

Client

### Pre-condition

Must be logged in as a client. Client must be in the ‘AddressManager’ page on the web app.

### Main Success Scenario

1. User presses ‘Add’ button
2. System redirects to the ‘AddAddress’ page
3. User enters all fields
4. User presses ‘Add address’ button
5. System creates the new address
6. User is redirected to the ‘AddressManager’ page

### Extensions

1. Not all fields are filled up
   1. System shows an error message
   2. Go back to MSS 3

## User edits a home address

### Actor

Client

### Pre-condition

Must be logged in as a client. Client must be in the ‘AddressManager’ page on the web app.

### Main Success Scenario

1. User presses ‘Edit’ button on the address that he would like to edit
2. System redirects to the ‘EditAddress’ page
3. User updates all fields
4. User presses ‘Edit address’ button
5. System updates the address
6. User is redirected to the ‘AddressManager’ page

### Extensions

1. Not all fields are filled up
   1. System shows an error message
   2. Go back to MSS 3

## User removes a home address

### Actor

Client

### Pre-condition

Must be logged in as a client. Client must be in the ‘AddressManager’ page on the web app.

### Main Success Scenario

1. User presses ‘Delete’ button on the address that he would like to delete
2. System deletes the selected address
3. User is redirected to the ‘AddressManager’ page

## Client creates an order

### Actor

Client

### Pre-condition

Must be logged in as a client. Client must be in the ‘Shopping cart’ page on the web app.

### Main Success Scenario

1. Client presses ‘Cart checkout’ button
2. System redirects client to the ‘OrderDetails’ page
3. Client selects the delivery option
4. System redirects user to the ‘SelectTimeSlotPage’ page
5. Client selects a payment method
6. Client selects an address
7. Client provides a timeslot
8. Client presses the ‘Create your order’ button
9. System processes the provided input
10. System creates an order for the client
11. System redirects user to the ‘Order Result’ page
12. System displays the details about the newly made order

### Extensions

1. Client does not provide payment method
   1. System informs the user about the error
   2. Reroute back to MSS step 5
2. Client does not provide shipping information
   1. System informs the user about the error
   2. Reroute back to MSS step 3
3. Client does not provide a timeslot
   1. System informs the user about the error
   2. Reroute back to MSS step 7
4. Order could not be created
   1. System informs the user about the error
   2. Reroute back to MSS step 1

## Shop worker creates a product

### Actor

Shop worker

### Pre-condition

Must be logged in as a shop worker. User must be in the ‘Product management’ page

### Main Success Scenario

1. Shop worker presses ‘Add’ button
2. System displays a form to add the data
3. Show worker fills in all required data
4. Shop worker presses ‘Add product’ button
5. System adds the product to the database
6. System provides a confirmation message

### Extensions

1. User does not provide data for ‘Mandatory fields’
   1. Error message appears, regarding mandatory fields
   2. Reroute back to MSS step 3
2. User provides incorrect/invalid data in the fields (e.g., letters for product’s price)
   1. System informs the user about the error
   2. Reroute back to MSS step 3

## Shop worker edits a product

### Actor

Shop worker

### Pre-condition

Must be logged in as a shop worker. User must be in the ‘Product management’ page

### Main Success Scenario

1. Shop worker selects a product
2. Shop worker presses the ‘Edit’ button
3. System displays an ‘Edit product’ form
4. Shop worker modifies the necessary data
5. Shop worker presses ‘Edit product’ button
6. System modifies product on the database
7. System informs the user about the result

### Extensions

1. User leaves the ‘Mandatory fields’ empty
   1. Error message appears, regarding mandatory fields
   2. Reroute back to MSS step 4
2. User provides incorrect/invalid data in the fields (e.g., letters for product’s price)
   1. System informs the user about the error
   2. Reroute back to MSS step 4

## Shop worker disables a product

### Actor

Shop worker

### Pre-condition

Must be logged in as a shop worker. User must be in the ‘Product management’ page

### Main Success Scenario

1. Shop worker selects a product
2. Shop worker presses the ‘Disable’ button
3. System asks user for confirmation
4. Shop worker selects “Yes”
5. System disables product on the database
6. System refreshes the page

### Extensions

1. Shop worker does not select any product
   1. System informs the user about the error
   2. Reroute back to MSS step 1
2. Product has already been disabled by someone else
   1. System informs the user about the error
   2. Reroute back to MSS step 1
3. User selects ‘No’ button at MSS step 4
   1. Reroute back to MSS step 1

## Shop worker changes the status of the order

### Actor

Shop worker

### Pre-condition

Must be logged in as a shop worker. User must be in the ‘Orders management’ page

### Main Success Scenario

1. Shop worker selects an order
2. Shop worker presses ‘Change order status’ button
3. System redirects user to the ‘Change order status’ page
4. Shop worker changes the order status
5. Shop worker presses the ‘Update status’
6. System updates the status of the order

### Extensions

1. Shop worker does not select any order to change its status
   1. System informs the user about the error
   2. Reroute back to MSS step 1
2. Shop worker does not change the status of the order or leaves it as it is
   1. System still updates the order status (because no changes were made)

## Shop worker sees all orders

### Actor

Shop worker

### Pre-condition

Must be logged in as a shop worker. User must be in the ‘Orders management’ page.

### Main Success Scenario

1. Shop worker presses ‘Orders management’ button
2. System displays all orders

## Shop worker sees all statistics

### Actor

Shop worker

### Pre-condition

Must be logged in as a shop worker. User must be in the ‘Statistics’ page.

### Main Success Scenario

1. Shop worker presses ‘Statistics’ button
2. System displays all statistics