User requirement specification

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Introduction, objective and scope

1. Introduction

I (Tihomir Kandev) am procuring a furniture company with a program that can handle their requirements which will be mentioned later in this document. As part of this procurement, a User Requirements Specification (URS) is required. This URS documents the user requirements for the program. The URS will be used as the basis of design and build of the program.

2. Objective

- Construction
- Design

3. Scope

1. In-scope

The URS details the following requirement types:

- Non-functional requirements
- Functional requirements
- Use cases
- GUI
- Website wireframes

2. Out of scope

The URS does not include:

- UML
- Test planning
- Test results
- Database design
- Phases of the project

Requirements

1. Non functional

ID	Description	Priority
NFR-01	Proper OO principles must be applied to ensure good maintainability and extensibility of the code base.	Must
NFR-02	Appropriate testing techniques must be used when implementing the system to ensure proper functioning.	Must
NFR-03	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.	Must

2. Functional

ID	Description	Priority
FR-01	Staff been able to manage products	Must
FR-02	Client buy a product/products	Must
FR-03	Manager been able to manage staff	Must
FR-04	Manager been able to see aggregated statistics	Must
FR-05	Any interested user can retrieve information for a product	Must
FR-06	Software solution(website) supports filtering and sorting	Must
FR-07	Software solution supports multiple type of products	Should
FR-08	Website shows profile page	Wont
FR-09	Client or staff been able to change profile password	Wont

Client use cases

ID: UC-01
Description: Logging in
Actors: Client, staff or manager
Pre-conditions: Website is opened
Main case scenario:

1. User opens log in page
2. User inputs his/her email and password
3. System cheks for valid input format
4. User confirms the operation
5. System cheks for existing user with same data
6. System redirects client to main page

Extensions:

3a. Can show error if condition is not met
5a. Can show error if the following condition is not met:
Email and password need to exist in the system

ID: UC-02
Description: Retrieve information for a product
Actors: User or client
Pre-conditions: If the actor is client he/she needs to be logged in.
Main case scenario:

1. Actor selects product
2. System gets and displays the information on new web page
3. Actor sees product information on their screen

ID: UC-03

Description: Adding product to the cart

Actors: Client

Pre-conditions: Client is logged in

Main case scenario:

1. Actor click button "view more" on the products that he/she wants
2. System opens ne page with the information for it
3. Actor clicks the button at the end "Add to cart"
4. System checks for profile of the user
5. System adds the product to the cart

Extensions:

4a. Can show an error if client is not looged in and redirects them to the login page

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ID: UC-04

Description: Viewing current order

Actors: Client

Pre-conditions: Client is logged in

Main case scenario:

1. Actor click the profile icon at the top right corner of the screen
2. System opens drop down menu
3. Actor selects the option "Cart"
4. System retrieves data for his cart and displays it in new page

Extensions:

4a. If the client does not have something in their cart the system will show a text mentioning that

ID: UC-05
Description: Viewing past orders
Actors: Client
Pre-conditions: Client is logged in
Main case scenario:
1. Actor click the profile icon at the top right corner of the screen
2. System opens drop down menu
3. Actor selects the option "Previous orders"
4. System retrieves data for his orders and displays it in new page

Extensions:
    4a. . If the client does not have previous orders the system will show a text mentioning that

Staff use cases

ID: UC-06
Description: Updating product
Actors: Staff
Pre-conditions: Staff is logged in
Main case scenario:
1. Actor clicks the button "Edit" below the product that he want to change
2. System loads new web page with all the information for this product
3. Actor makes the changes to the data
4. System validates the data
5. Actor confirms changes to the data
6. System enters it in the database and returs staff to main page

Extensions:
4a. Can show error if data type is not valid

ID: UC-07
Description: Deleting product
Actors: Staff
Pre-conditions: Staff is logged in
Main case scenario:
1. Actor clicks the button "Delete" below the product that he wants to delete
2. System displays a pop up to ask for confirmation
3. Actor confirms
4. System deletes the product and refreshes the main page

ID: UC-08
Description: Creating product
Actors: Staff
Pre-conditions: Staff is logged in
Main case scenario:

1. Actor clicks on button "Create product" located in the navigation menu
2. System opens new page with blank fields
3. Actor enters product information
4. System validates format of the data
5. Actor confirms the creation
6. System creates new product in the database and redirects back to main page

Manager use cases

ID: UC-09

Description: Retrieving aggregated data

Actors: Manager

Pre-conditions: Manager is logged in

Main case scenario:

1. Actor clicks on "See statistics" located in the navigation menu
2. System opens new page with the data displayed in it
3. Actor can see the data in his screen

ID: UC-10

Description: Hire staff

Actors: Manager

Pre-conditions: Manager is logged in

Main case scenario:

1. Actor clicks on "Hire" button located in the mavigation menu
2. System opens new page with empty fields for each of the data required
3. Actor fills them and confirms
4. System validates the data
5. System redirects to main page

Extensions:

4a. Can show an error if there is same worker already in the company or input data has wrong format

ID: UC-11
Description: Fire staff
Actors: Manager
Pre-conditions: Manager is logged in
Main case scenario:
1. Actor clicks on "Fire" located in navigation menu
2. System opens new page with all the workers show in it
3. Actor clicks button "Fire" located mext to the worker he want to fire
4. System shows message for confirmation
5. Actor confirms it
6. System fires it and redirects to the main page

ID: UC-12
Description: Update staff
Actors: Manager
Pre-conditions: Manager is logged in
Main case scenario:
1. Actor selects to update staff form the navigation menu which is displayed on his screen
2. System opens new page with all workers showed in it
3. Actor selects the worker that he want to update
4. System opens new page with all the information for him/her
5. Actor changes the data that he want and confirms it
6. System makes the changes and redirets to main page

Website wireframes