

User Requirements Specifications



ICT & Software Engineering - Semester 2

Class: S2-CB-01

Group: 4

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Table of Contents

[Agreements with client 2](#_Toc68673625)

[Actors and responsibility 2](#_Toc68673626)

[Data constraints 2](#_Toc68673627)

[Functional Requirements 3](#_Toc68673628)

[priority for this 6 weeks 3](#_Toc68673629)

[Use cases 4](#_Toc68673630)

[**Use case-01:** Log in. 4](#_Toc68673631)

[**Use case-02:** Change password. 4](#_Toc68673632)

[**Use case-03:** Add Employee. 5](#_Toc68673633)

[**Use case-04:** Remove Employee. 5](#_Toc68673634)

[**Use case-05:** View Employee Information. 6](#_Toc68673635)

[**Use case-06:** Change Employee Contract. 6](#_Toc68673636)

[**Use case-07:** Assign Employees To Shifts. 6](#_Toc68673637)

[**Use case-08:** View shifts 7](#_Toc68673638)

[**Use case-09:** Add products 7](#_Toc68673639)

[**Use case-10:** Remove product 8](#_Toc68673640)

[**Use case-11:** Stock Requests Processing 8](#_Toc68673641)

[**Use case-12**: view Product data 9](#_Toc68673642)

[**Use case-13:** View Stock Statistics 9](#_Toc68673643)

[**Use case-14:** Product Search. 9](#_Toc68673644)

[**Use case-15:** View Employee Statistics 10](#_Toc68673645)

[**Use case-16:** Employee search. 10](#_Toc68673646)

[**Use case-17:** Log Out. 10](#_Toc68673647)

[Gui 11](#_Toc68673648)

[Website wireframe 15](#_Toc68673649)

# Agreements with client

## Actors and responsibility

|  |  |
| --- | --- |
| Actors | Responsibility |
| HR Admin | Manage employees: adding employees and removing employees. |
| Department manager | See employees’ statistic and assign work shift to store employees. |
| Stock manager | See stock statistic and assign work shift to stock employees |
| Stock worker | See restock request. |

## Data constraints

* Agreed on a meeting in week 6.
* Prefer color for the application is light blue color.
* Media Bazaar opens at 7:30 to 20:30
* Media Bazaar opens for 7 days a week
* The HR admin should be able to add employees, renew employees’ contract and remove employees.
* Keep contract history of employees.
* Contract information: full time contract, 80% contract and flex contract.
* Full time contract: 40 hours a week.
* 80% contract: 32 hours a week.
* Flex contract: on call when store need more workers.
* First time contract is a one-year contract.
* Renew contract 3 times for three years after that contract with no end date.
* Department manager should be able to see statistics about the individual store employee and assign work shift to store employees.
* Stock manager should be able to see statistic about the individual stock employee and assign work shift to stock employees.
* Stock workers should be able to see data about stock and incoming shelf restock requests.

**For all the employees we should store:**

1. First name
2. Last name
3. Address (street, street number, zip code, town, country)
4. Personal e-mail address
5. Username
6. Password
7. Date of birth
8. Date of first working day
9. BSN number
10. Emergency telephone number
11. Bank account number
12. Hourly wage
13. Department(s)
14. Position
15. Level
16. Photo
17. Availability
18. FTE
19. Contract type
20. Contract start date
21. Contract history information

**For the product we should store:**

1. Product Number
2. Brand
3. Type
4. Model
5. Description
6. Category
7. Subcategory
8. Cost Price
9. Sales Price
10. Amount in store (on the shelf)
11. Amount in warehouse

# Functional Requirements

**FR-01: The application should let the user log in and log out.**

**FR-02: The user can change their password.**

**FR-03: HR admin should be able to manage employees.**

**FR-04: Store manager should be able to see statistic about resources.**

**FR-05: Department manager and stock manager should be able to assign work shift to employees.**

**FR-06: Stock manager should be able to add product and remove product.**

**FR-07: Stock worker should be able to see restock request in the application and see product data.**

## priority for this 6 weeks

|  |
| --- |
| **FR-01: The application should let the user log in and log out.** |
| **FR-02: The user can change their password.** |
| **FR-03: HR admin should be able to manage employees.** |
| **FR-04: Department manager and stock manager should be able to see statistic about resources.** |
| **FR-05: Department manager and stock manager should be able to assign work shift to employees.** |
| **FR-06: Stock manager should be able to add product and remove product.** |
| **FR-07: Stock worker should be able to see restock request in the application and see product data.** |

# Use cases

### **Use case-01:** Log in.

Related: **FR-01.**

**Actor:** HR admin/ Department manager/ Stock manager/ Stock worker.

**Main Success Scenario:**

1. Actor enters the username and password and confirms.
2. The application let the actor into the profile.

**Extensions:**

1a: Enter wrong username and password.

1. Application displays an invalid credentials message.
2. Returns to MSS step 1.

### **Use case-02:** Change password.

Related: **FR-02.**

**Actor:** HR admin/Store manager/Stock manager/ Department manager/ Stock worker

**Pre-condition:** Must log in.

**Main Success Scenario:**

1. Actor input old password information, new password information, repeat new password and confirms.
2. Application saves the information and display a successful message.

**Extensions:**

1a: input wrong password in the old password field.

1. Application displays a message with wrong password.
2. Returns to MSS step 1.

1b: Actor input the old password in the new password field.

1. Application displays a message with the password is already use.
2. Returns to MSS step 1.

1c: the new password is different than the repeat password field.

1. Application displays a message with repeat password does not match your new password
2. Returns to MSS step 1.

1d: empty field input.

1. Application displays a message with your input is not valid.
2. Returns to MSS step 1.

### **Use case-03:** Add Employee.

Related: **FR-03.**

**Actor:** HR admin.

**Pre-condition:** must log in as HR admin.

**Main Success Scenario:**

1. Actor input employee information and confirms.
2. Application saves the information and display it on a screen.

**Extensions:**

1a: Some requirements information has not been filled in.

1. Application displays a message to fill the missing requirement information.
2. Returns to MSS step 1.

1b: The employee already exists in the application by the same BSN number.

1. Application di displays an error message saying this person already added.
2. Returns to MSS step 1.

### **Use case-04:** Remove Employee.

Related: **FR-03.**

**Actor:** HR admin.

**Pre-condition:** must log in as HR admin.

**Main Success Scenario:**

1. Actors select an employee and confirms remove.
2. Application removes employee but keeps the record of employee.

### **Use case-05:** View Employee Information.

Related: **FR-03.**

**Actor:** HR admin.

**Pre-condition:** must log in as HR admin.

**Main Success Scenario:**

1. Actors select an employee and confirms.
2. Application displays the selected employee’s full information.

**Extensions:**

1a: Actor didn’t select an employee and confirm.

1. Application displays a message with please select an employee.
2. Returns to MSS step 1.

1b: Actor select an empty space.

1. Application displays a message with please select an employee.
2. Returns to MSS step 1.

### **Use case-06:** Change Employee Contract.

Related: **FR-03.**

**Actor:** HR admin.

**Pre-condition:** must log in as HR admin.

**Main Success Scenario:**

1. Actors select an employee and chooses a new contract type.
2. Application changes the contract type of the employee.

### **Use case-07:** Assign Employees To Shifts.

Related: **FR-05.**

**Actor:** Department Manager/ Stock manager / Store manager.

**Pre-condition:** must log in as department, store or stock manager

**Main Success Scenario:**

1. Actor goes to “Assign”
2. System displays current date, a dropdown to choose a month (three months forward from the current month)
3. Actor chooses a month.
4. System displays a dropdown to choose a date from the chosen month
5. Actor chooses a date
6. System displays an overview of the 4 shifts for the chosen date, the assigned employees and how many employees are left to be assigned for each of the shifts
7. Actor selects a shift.
8. System displays the available employees (with type of contract and how many hours they are assigned for the week) that are assigned for less than 3 shifts in the same day and the maximum employees that can be assigned to the selected shift
9. Actor needs to select one of the available employees and click “Assign” or one of the assigned employees and click “Remove”
10. System adds the employee to assigned employees for this Month/Day/Shift type and shows confirming message
11. System updates the hours the employee has been assigned with in available employees for the week in which the selected Date/Shift type is, by adding 4 hours.

**Extensions:**

9b: The actor has selected an employee from assigned employees and clicked “Remove”

1. System removes the employee from assigned employees for this Month/Day/Shift type and shows confirming message
2. System updates the hours the employee has been assigned with in available employees for the week in which the selected Date/Shift type is, by subtracting 4 hours and updates how many employees are left to be assigned for the shift
3. End of use case

9c: The actor has selected an employee from available employees and clicked “Assign” but the number of employees left to be assigned for this shift is 0

1. System shows a warning message and don’t assign the employee to the shift
2. End of use case

9d: The actor has selected an employee from available employees and clicked “Assign” but the employee was assigned for the maximum amount of contractual hours for the week

1. System shows a warning message, assign the employee to the shift and highlight it in red color
2. End of use case

9e: The actor has selected an employee from available employees and clicked “Assign” but the employee has not marked himself available for this Date/Shift

1. System shows a warning message and don’t assign the employee to the shift
2. End of use case

**Use case-08:** Change maximum amount of assignable employees for a particular shift

Related: **FR-05.**

**Actor:** Department Manager/ Stock manager / Store manager.

**Pre-condition:** must log in as department, store or stock manager and reached MS step 7 on Use case-07.

**Main Success Scenario:**

1. The actor enters a value in the maximum employees per shift and clicks “Change”
2. System updated the maximum employees that can be assigned to the selected shift and the number of employees that are left to be assigned to the selected shift

**Extensions:**

1b: The entered value is smaller than the already assigned employees to the shift

1. System displays a warning message and don’t update the value

### **Use case-09:** View shifts

Related: **FR-05.**

**Actor:** Department Manager/ Stock manager / Store manager.

**Pre-condition:** must log in as department, store or stock manager

**Main Success Scenario:**

1. Actor chooses date from the calendar and clicks “Show”.
2. System displays all the days of the week in which the selected date is in, shifts with number of assigned employees out of the maximum assignable employees for the Day/Shift type and highlights the shifts (0 assigned employees – red, maximum assigned employees – green, partially assigned employees - orange )
3. Actor double clicks on a shift
4. System displays the assigned employees for the shift

**Extensions:**

3b. The actor clicks Change week

1. Return to MS step 1

### **Use case-:10** Add products

Related: **FR-06.**

**Actor:** Stock manager.

**Pre-condition:** must log in as stock manager.

**Main Success Scenario:**

1. Actor input product details and confirms.
2. Application displays a message “success”

**Extension:**

1a: Actor didn’t fill all the information for the product.

1. The application displays an error message.
2. Return to MSS step 1.

1b: Actor fill the information in the wrong field.

1. The application displays an error message.
2. Return to MSS step 1.

### **Use case-11:** Remove product

Related: **FR-06.**

**Actor:** Stock manager.

**Pre-condition:** must log in as stock manager.

**Main Success Scenario:**

1. Actor select a product and confirm.
2. Application deletes product and display the current product.

### **Use case-12:** Stock Requests Processing

Related: **FR-07.**

**Actor:** Stock worker.

**Pre-condition:** must log in as stock worker.

**Main Success Scenario:**

1. System displays incoming restock requests.
2. Actor clicks on a request.
3. System displays info about the requested stock.
4. If the stock is available and the request can be processed, actor clicks “Approve”.
5. System removes request from incoming requests, adds it to “approved requests” tab page and shows appropriate message.

**Extensions:**

5a: There is no availability of the requested stock in the warehouse or request cannot be processed.

1. Actor clicks “Reject”
2. System removes request from incoming requests, adds it to “rejected requests” tab page and shows appropriate message.
3. End of use case

### **Use case-13**: view Product data

Related: **FR-07.**

**Actor:** Stock worker.

**Pre-condition:** must log in as stock worker.

**Main Success Scenario:**

1. The actor clicks to view product data.
2. The application display product data.

### **Use case-14:** View Stock Statistics

Related: **FR-04.**

**Actor:** Store manager.

**Pre-condition:** must log in as stock manager.

**Main Success Scenario:**

1. The actor chooses “Stock statistics”.
2. The application displays statistics about all products (name, quantity, serial number)

### **Use case-15:** Product Search.

Related: **FR-06 – FR07.**

**Actor:** Store manager/ stock worker.

**Pre-condition:** must log in as stock manager.

**Main Success Scenario:**

1. The actor inputs the serial number of the wanted product.
2. The application displays information about the product found.

**Extensions**

1a. actor input an unknown serial number.

1. System displays an unknown serial number error.
2. Return to MSS step 1.

### **Use case-16:** View Employee Statistics

Related: **FR-04.**

**Actor:** Department manager.

**Main Success Scenario:**

1. The actor chooses the “Employee statistics”.
2. The application displays employee information (name, last name, hourly wage etc.).

### **Use case-17:** Employee search.

Related: **FR-03.**

**Actor:** HR admin.

**Main Success Scenario:**

1. The actor enters the ID number of the wanted employee.
2. The application displays the information about the found employee.

**Extensions**

1a. actor input an unknown ID number.

1. System displays an unknown ID number error.
2. Return to MSS step 1.

### **Use case-18:** Log Out.

Related: **FR-01.**

**Actor:** HR admin/Department manager/ Stock manager/Store manager /Stock worker.

**Main Success scenario:**

1. The actor clicks the button “Log Out”.
2. The application logs out the user and displays the log in page.

# Gui

Stock worker’s profile when logged in.

Department manager and stock manager’s profile when logged in.

HR admin’s profile when logged in.

Login function. Each user has to login through the application.



Here’s the shift for the week and the employee assigned to them.

Here is where can assign employee shifts.

This is how the HR admin removes employee.

This is how the HR admin adds employee.

Stock manager can search for an individual employee by their unique id number.

Department can see all the employees statistic.

Stuck manager can search for a specific product here.

Stuck manager can see stock statistic.

Stock worker can see the stock request.

# Website wireframe

Coming soon.