

User Requirements Specifications



ICT & Software Engineering - Semester 2

Class: S2-CB-01

Group: 4

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# 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: HR admin should be able to manage employees.**

**FR-03: Store manager should be able to see statistic about resources.**

**FR-04: Department manager and stock manager should be able to assign work shift to employees.**

**FR-05: Stock manager should be able to add product and remove product.**

**FR-06: 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: HR admin should be able to manage employees.** |
| **FR-03: Department manager and stock manager should be able to see statistic about resources.** |
| **FR-04: Department manager and stock manager should be able to assign work shift to employees.** |
| **FR-05: Stock manager should be able to add product and remove product.** |
| **FR-06: 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:** Add Employee.

Related: **FR-02.**

**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-03:** Remove Employee.

Related: **FR-02.**

**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-03.1:** Change Employee Contract.

Related: **FR-02.**

**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-04:** Assign Employees To Shifts.

Related: **FR-03 and FR-04.**

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

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

**Main Success Scenario:**

1. Actor goes to “Assign Shifts”
2. System displays current week of the year and 10 following weeks to choose from.
3. Actor chooses “Week”, “Day” and “Shift type”(7am - 11am, 11am – 3pm, 3pm – 7pm, 8pm-11pm).
4. System shows assigned employees in one place and available employees with full and 80% contract and how many hours out of the maximum per week they are assigned with, depending on their contract, in another place.
5. Actor needs to select one of the available employees and click “Assign” or one of the assigned employees and click “Remove”.
6. System adds the employee to assigned employees for this Week/Day/Shift type and shows confirming message
7. System updates the hours the employee has been assigned with in available employees for this Week/Day/Shift type by adding 4 hours.

**Extensions:**

4a: There are no available employees with full and 80% contract left

1. System displays employees with flex contract
2. Return to MSS step 5

5a: The selected employee is already assigned for 8 hours (2 shifts) for the selected day

1. System shows warning message
2. Return to MSS step 5

5b: The actor has clicked “Remove”

1. System removes the employee from assigned employees for this Week/Day/Shift type and shows confirming message
2. If the employee is in the list of available employees, system updates the hours the employee has been assigned with in available employees for this Week/Day/Shift type by subtracting 4 hours. Otherwise, system adds employee in list of available employees and updates assigned hours to the maximum subtracted by 4.
3. End of use case

7a: The assigned hours for the employee have reached the maximum hours they have to work for the week

1. System removes the employee from available employees for this Week/Day/Shift type
2. End of use case

7b: The employee contract is flex

1. System doesn’t show assigned hours and maximum hours, doesn’t add hours or remove employee from available employees when this employee is assigned to a shift

### **Use case-05:** View shifts

Related: **FR-03 and FR-04.**

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

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

**Main Success Scenario:**

1. Actor clicks “View Shifts”.
2. System displays a table with days of the week, shifts and assigned employees

### **USe case-06:** Add products

Related: **FR-05.**

**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-07:** Remove product

Related: **FR-05.**

**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-08:** Stock Requests Processing

Related: **FR-06.**

**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-09**: view Product data

Related: **FR-06.**

**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-10:** 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-11:** Product Search.

Related: **FR-05 – FR06.**

**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-12:** View Employee Statistics

Related: **FR-03.**

**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-13:** Employee search.

Related: **FR-02.**

**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-14:** 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.