

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 Administration | Manage employees: adding employees removing employees and assigning shift to employees |
| Management | See employees’ statistic and stock statistic. |
| Depot 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 administration should be able to add employees, renew employees’ contract, assign shift to employees 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.
* Management should be able to see statistics about the individual employee and stock.
* Last depot workers should be able to see data about stock and incoming shelf restock requests.

**For the employees we should store:**

1. First Name.
2. Last name.
3. Gender.
4. Date of birth.
5. BSN number/ Citizen ID number.
6. Address.
7. E-mail.
8. Phone number.
9. Type of contract.
10. Hourly wage.

**For the product we should store:**

1. Name of product.
2. Price.
3. Quantity.
4. Serial number.

# Functional Requirements

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

**FR-02: HR administration should be able to manage employees.**

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

**FR-04: Depot worker should be able to see restock request in the application.**

## priority for this 6 weeks

|  |
| --- |
| **FR-01: The application should let the user log in and log out.** |
| **FR-02: HR administration should be able to manage employees.** |
| **FR-03: Management should be able to see statistic about resources.** |

## **Priority after 6 weeks**

|  |
| --- |
| **FR-04 Depot worker should be able to see restock request in the application.** |

# Use cases

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

Related: **FR-01.**

**Actor:** HR administration/ Management/ Depot-worker.

**Main Success Scenario:**

1. Open the application and choose a job position.
2. Enter a username and password.
3. The “login” button is pressed, and the user logs in into the profile.

**Extensions:**

2a: Enter wrong username.

1. Application display error message.
2. Return to MSS step 2.

2b: Enter wrong password.

1. Application display error message.
2. Return to MSS step 2.

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

Related: **FR-02.**

**Actor:** HR administration.

**Main Success Scenario:**

1. Actor input employee information and confirms in the register tab.
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:** Remove Employee.

Related: **FR-02.**

**Actor:** HR administration.

**Main Success Scenario:**

1. Actors select an employee and confirms remove in the remove tab.
2. Application removes employee and remove it on the display screen.

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

**Related:** FR-02.

**Actor:** Department 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:** View shifts and assigned employees

**Related:** FR-02**.**

**Actor:** Department Manager

**Main Success Scenario:**

1. Actor clicks “View Shifts” tab page.

System displays a table with days of the week, shifts and assigned employees

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

Related: **FR-04.**

**Actor:** Depot-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:** View Stock Statistics

Related: **FR-03.**

**Actor:** Management

**Main Success Scenario:**

1. The actor clicks on button “Stock statistics”.
2. The actor chooses the tab “Statistics”.
3. The application displays statistics about all products (name, quantity, serial number)

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

Related: **FR-03.**

**Actor:** Management

**Main Success Scenario:**

1. The actor clicks on the button “Stock statistics”.
2. The actor chooses the tab “Search”.
3. The actor inputs the serial number of the wanted product into the text box.
4. The application displays information about the product found.

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

Related: **FR-03.**

**Actor:** Management

**Main Success Scenario:**

1. The actor clicks on the button “Employee statistics”.
2. The actor chooses the tab “Statistics”.
3. The application displays statistic for the employees.

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

Related: **FR-03.**

**Actor:** Management

**Main Success Scenario:**

1. The actor clicks on the button “Employee statistics”.
2. The actor chooses the tab “Search”.
3. The actor enters the ID number of the wanted employee.
4. The application displays the information about the found employee.

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

Related: **FR-01.**

**Actor:** HR administration/Management/Depot-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

Depot worker’s profile when logged in.

Management’s profile when logged in.

HR administration/ 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 HR administration can assign employee shifts.

This is how the HR administration removes employee.

This is how the HR administration adds employee.

Here the management can search for an individual employee by their unique id number.

The management can see all the employees statistic.

The Management can search for a specific product here.

The Management can see stock statistic.

Depot worker can see the stock request.

# Website wireframe

Coming soon.