USER REQUIREMENTS SPECIFICATIONS

ICT & Software Engineering - Semester 2
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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: 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:

3. Actor input employee information and confirms.
4. Application saves the information and display it on a screen.

Extensions:

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

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

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

3. Application di displays an error message saying this person already added.
4. 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: 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-06: ASSIGN EMPLOYEES TO SHIFTS.
Related: **FR-05.**

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 date and three following months to choose from.
3. Actor chooses "Month", "Day" and "Shift type"(Morning, Afternoon, Evening, Night).
4. System shows assigned employees in one place and available employees with type of contract and how many hours they are assigned with.
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 Month/Day/Shift type and shows confirming message
7. System updates the hours the employee has been assigned with in available employees for this Month/Day/Shift type by adding 4 hours.

Extensions:

5b: The actor has 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 this Month/Day/Shift type by subtracting 4 hours.
3. End of use case

USE CASE-07: VIEW SHIFTS
Related: **FR-05.**

Actor: Department Manager/ Stock manager.

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

Main Success Scenario:

1. Actor chooses date from the calendar and clicks View.
2. System displays all the days of the week in which the selected date is in, shifts and assigned employees

Extensions:

3. The actor clicks Change week

1. Return to MS step 1

USE CASE-08: 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-09: 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-10: 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-11: 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-12: 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-13: 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-14: 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-15: 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.

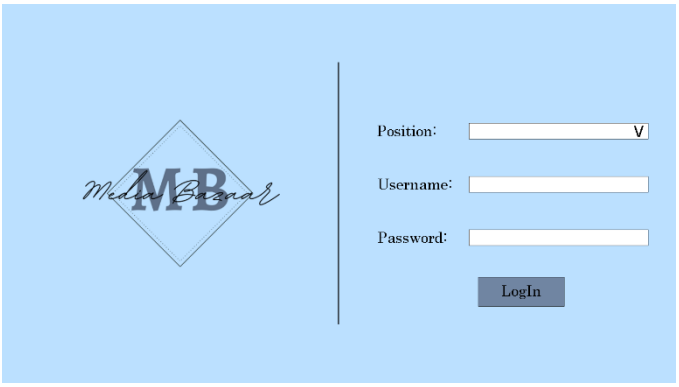
USE CASE-16: LOG OUT.
Related: **FR-01.**

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

Main Success scenario:

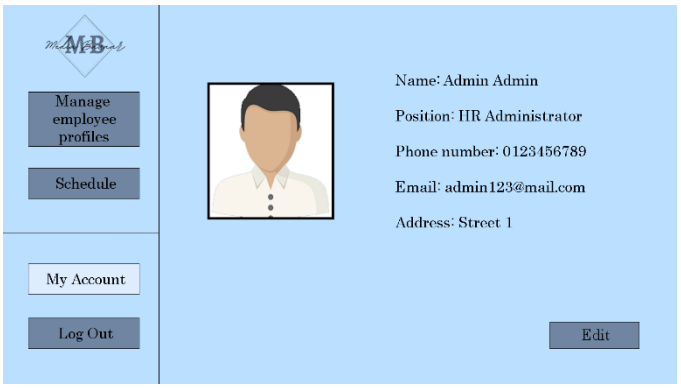
1. The actor clicks the button "Log Out".
2. The application logs out the user and displays the log in page.

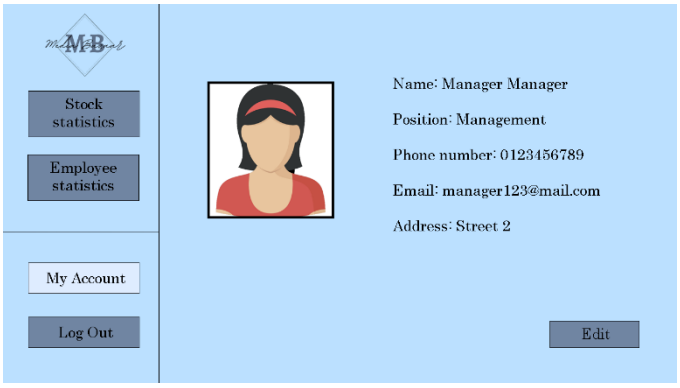
GUI



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

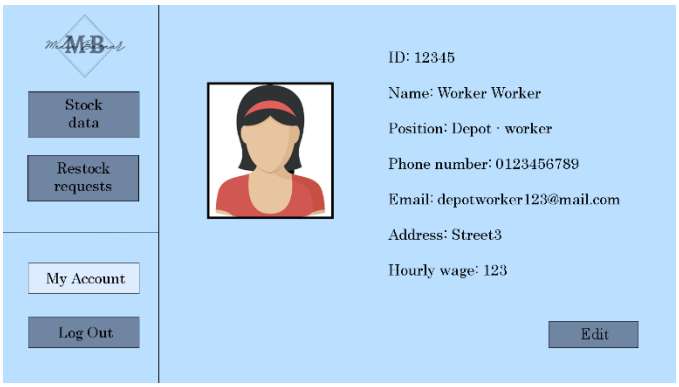
HR admin's profile when logged in.

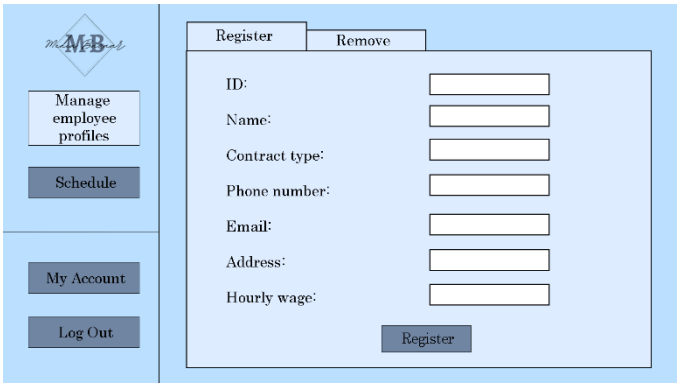




Department manager and stock manager's profile when logged in.

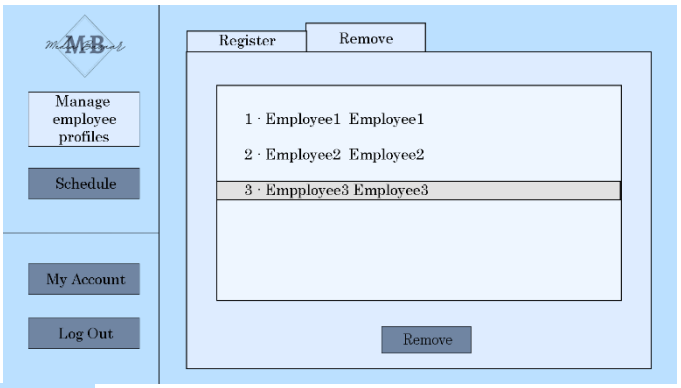
Stock worker's profile when logged in.

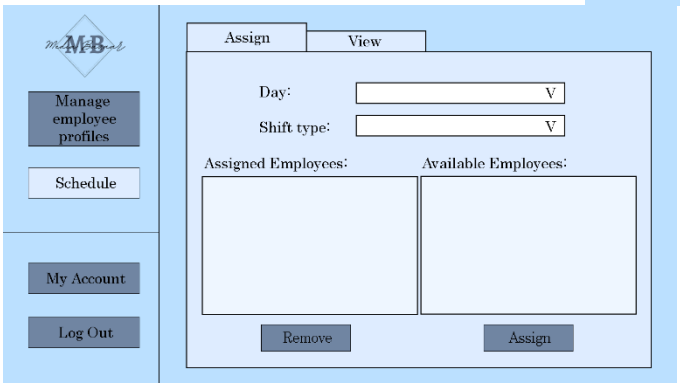




This is how the HR admin adds employee.

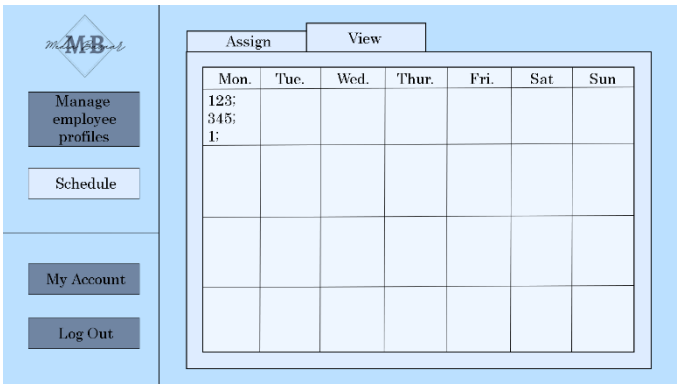
This is how the HR admin removes employee.

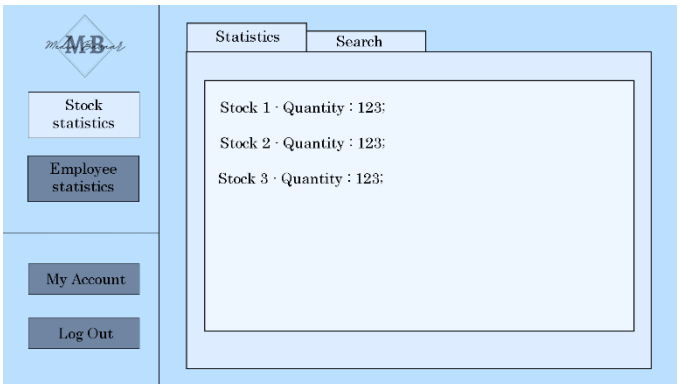




Here is where can assign employee shifts.

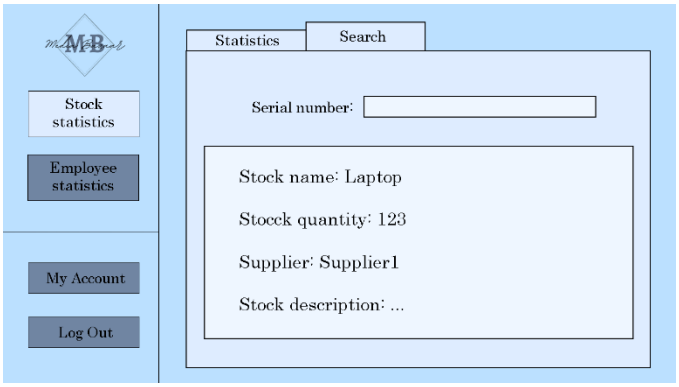
Here's the shift for the week and the employee assigned to them.

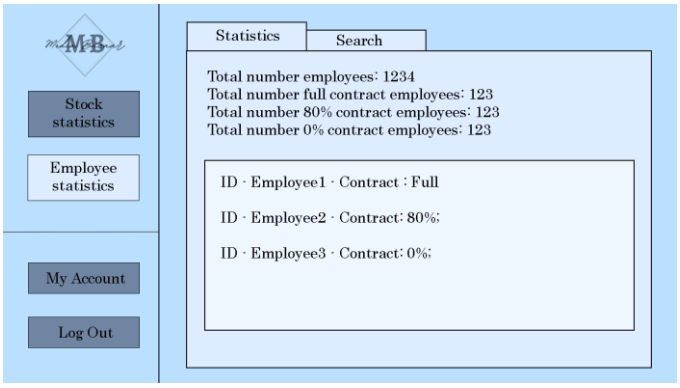




Stuck manager can see stock statistic.

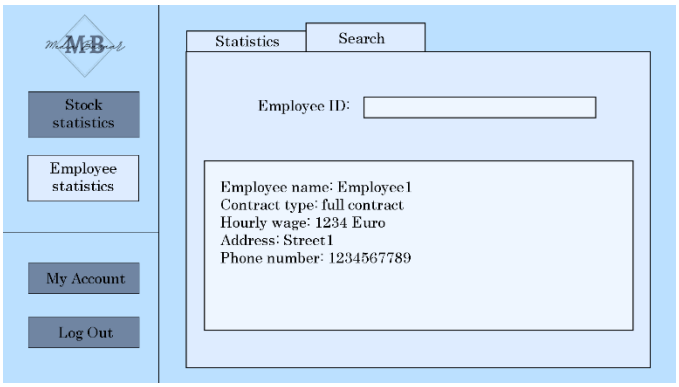
Stuck manager can search for a specific product here.

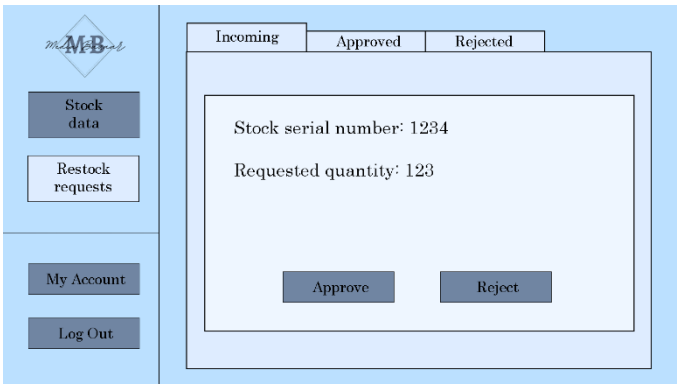




Department can see all the employees statistic.

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





Stock worker can see the stock request.

WEBSITE WIREFRAME

Coming soon.