

Software Engineering Semester 2

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User Requirements Specifications

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S-CB-S2-CMK Group 3



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Functional Requirements

The understated requirements are the ones that we will implement into the system. We also ranked them in priority, 'Must have' has the highest priority and 'Could have' has the least priority. Then we have also made ID tags for each requirement for easy references, the tag is built up out of 3 parts. The first part is 'FR' this stands for **F**unctional **R**equirement; the second part is the unique number, and the third part is 'A' or 'W'. 'A' indicates it is meant for **A**pplication and 'W' indicates it is meant for **W**eb site.

Must have

- **(FR-01-W)** - General management can see overall statistics about stock/employees.
- **(FR-02-A)** - Stock manager can add/remove to the current stock.
- **(FR-03-A)** - Stock manager can add/remove products to/from the stock.
- **(FR-04-A)** - Employee manager can add/remove employees.
- **(FR-05-W)** - Employee manager can see the current employees.
- **(FR-06-A)** - Employee can see the current stock and information about the product.
- **(FR-07-A)** - Employee can see a shelf restock request.

Should have

- **(FR-08-A)** - Stock manager can add/remove departments.
- **(FR-09-W)** - Employee manager can see personal information about an employee.
- **(FR-10-W)** - Employee manager can create a schedule for employees.
- **(FR-11-W)** - Employee manager can assign employees to a department.
- **(FR-12-W)** - Employee can see his own schedule.
- **(FR-13-A)** - Employee can record his own attendance.

Could have

- **(FR-14-W)** - Employee manager can edit the schedule after creation.
- **(FR-15-W)** - Employee can request a leave of absence.

Use Cases

The use cases will give a rough example how the system will work. It also covers exceptions and how the system will handle those exceptions.

(ID)Name	(FR-01-W) Insight into personnel/stock statistics
Summary	Managers can view various statistics about personnel and stock.
Actor	Managers
Assumption(s)	Manager is logged into his account on the website and navigated to statistics.
Main success scenario	<ol style="list-style-type: none">1. The actor confirms if he wants to see stock or employee statistics.2. The system loads in the statistics based on the managers choice3. The actor confirms if he wants to see specific or general statistics.4. The system displays general or specific statistics based on the managers choice.
Extensions	3.a There is no specific statistics for the selected product/employee. 3.b The system will give a warning that there is no information available.
Result	The manager can view various statistics about personnel and stock. Also, specific or general.

(ID)Name	(FR-02-A) Add/remove an amount of the current stock
Summary	Add or remove a certain amount of the current stock from a specific product.
Actor	Stock manager
Assumption(s)	Is in the stock side of the application and navigated to a certain product.
Main success scenario	<ol style="list-style-type: none">1. The actor confirms an amount.2. The actor confirms if he wants to add or remove from the stock.3. The system locks in the choice and asks for a final conformation.4. The actor confirms the required conformation.5. The system changes the current stock accordingly.
Extensions	1.a The actor confirms an invalid amount 1.b The system will give a warning that there is an invalid amount.

Result	The stock manager added or removed a certain amount of a products stock.
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(ID)Name	(FR-03-A) Add/remove a product to the store
Summary	Add or remove a certain product to the store inventory.
Actor	Stock manager
Assumption(s)	Currently in the stock window
Main success scenario	<ol style="list-style-type: none"> 1. The actor searches on a product name or ID and confirms. 2. The system displays the product. 3. The actor confirms to delete/add the product. 4. The system deletes/add the product out of the stores inventory.
Extensions	<ol style="list-style-type: none"> 1.a The system can't find the product or ID 1.b The system asks the actor if he wants to add a new product with the actors confirmed product name or ID. 1.c The actor confirms to add a new product. 1.d The system loads the add product page. 1.e The actor puts in all the required product information and confirms to add the product to the stores inventory. 1.f The system adds the product to the stores inventory.
Result	The stock manager added or removed a certain product to the stores inventory.

(ID)Name	(FR-04-A) Add/remove an employee
Summary	Add or remove an employee from the stores system.
Actor	Employee manager
Assumption(s)	Is in the employee side of the application.
Main success scenario	<ol style="list-style-type: none"> 1. The actor searches on a name and confirms. 2. The system displays the employee. 3. The actor confirms to delete the employee. 4. The system asks the actor for a reason. 5. The actor puts in a reason a confirms. 6. The system deletes the employee with the given reason attached to it.
Extensions	<ol style="list-style-type: none"> 1.a The system can't find the name 1.b The system asks the actor if he wants to add a new employee with the actors confirmed name. 1.c The actor confirms to add a new employee. 1.d The system loads the add employee page.

	1.e The actor puts in all the required employee information and confirms to add the employee to the stores system. 1.f The system adds the employee to the stores system.
Result	The employee manager added or removed a certain employee to the stores system.

(ID)Name	(FR-05-W) List of employees
Summary	The employee manager has an overview of all the employees.
Actor	Employee manager
Assumption(s)	Manager is logged into his account on the website.
Main success scenario	<ol style="list-style-type: none"> 1. The manager navigates to employees 2. The system will show all the employees employed
Extensions	none
Result	The employee manager has an overview of all the employees employed.

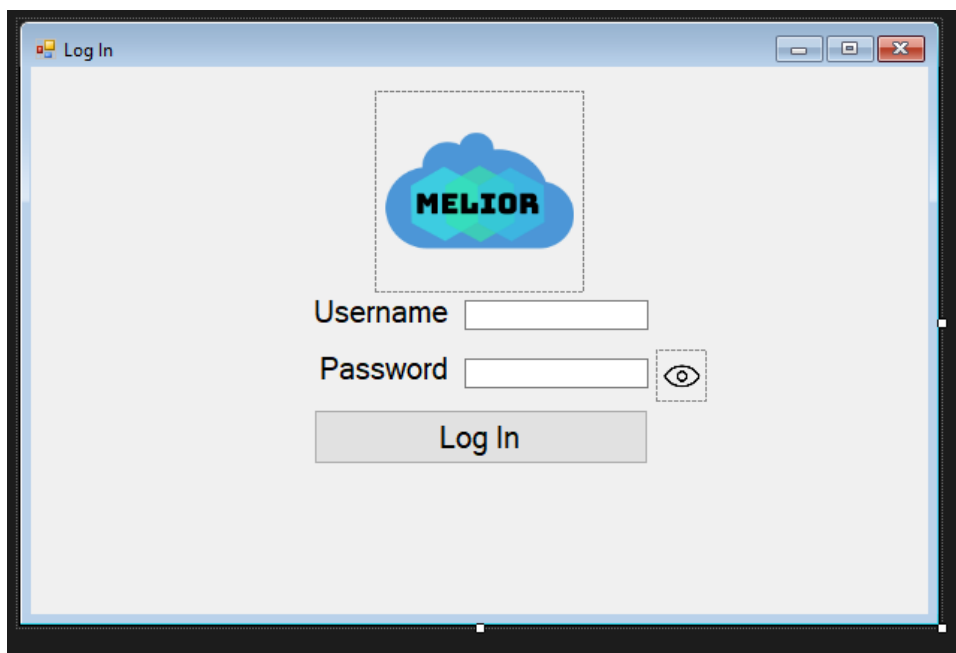
(ID)Name	(FR-06-A) Viewing Current stock and information about product
Summary	Stock manager can view all information about product
Actor	Stock manager
Assumption(s)	Currently in the stock window
Main success scenario	<ol style="list-style-type: none"> 1. The actor selects product he wants to gain information about 2. The system displays all information about selected product
Extension	2a. The system does not have any data about selected stock 2b. The system informs user about this and gives user the option to add required data 2c. The actor accepts 2d. Returns to extension 1d of ID (FR-02-A)
Result	The stock manager can view information about the product in current inventory

(ID)Name	(FR-07-A) - Employee can see a shelf restock request.
Summary	System shows employee a message to restock an empty shelf
Actor	Employee
Assumption(s)	Currently in the stock window
Main success scenario	<ol style="list-style-type: none"> 1. Employee removes product from inventory

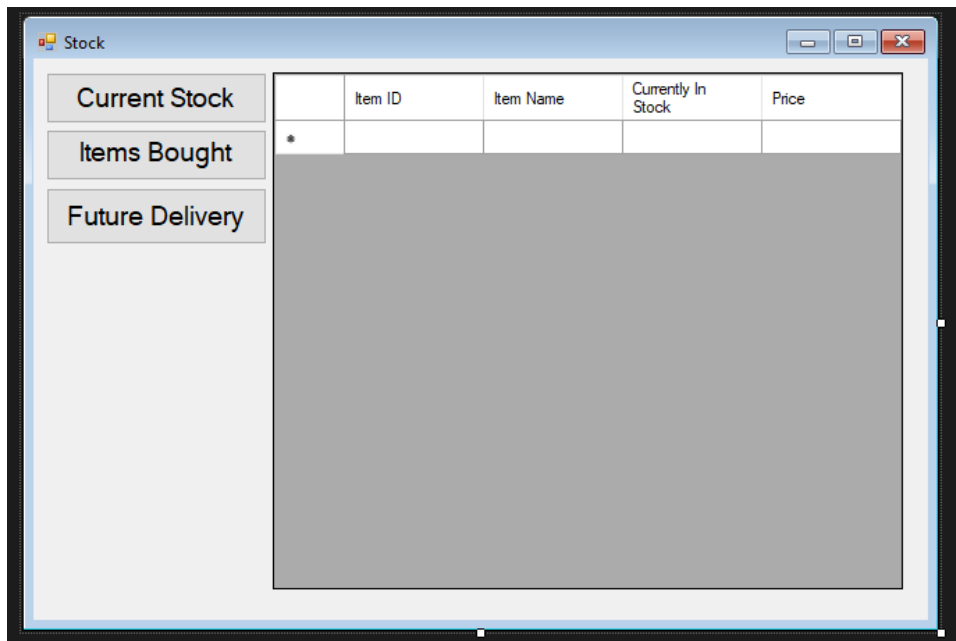
	2. System checks inventory and alerts employees of the empty stock
Extension	none
Result	The Employee can see the shelf restock request

GUI

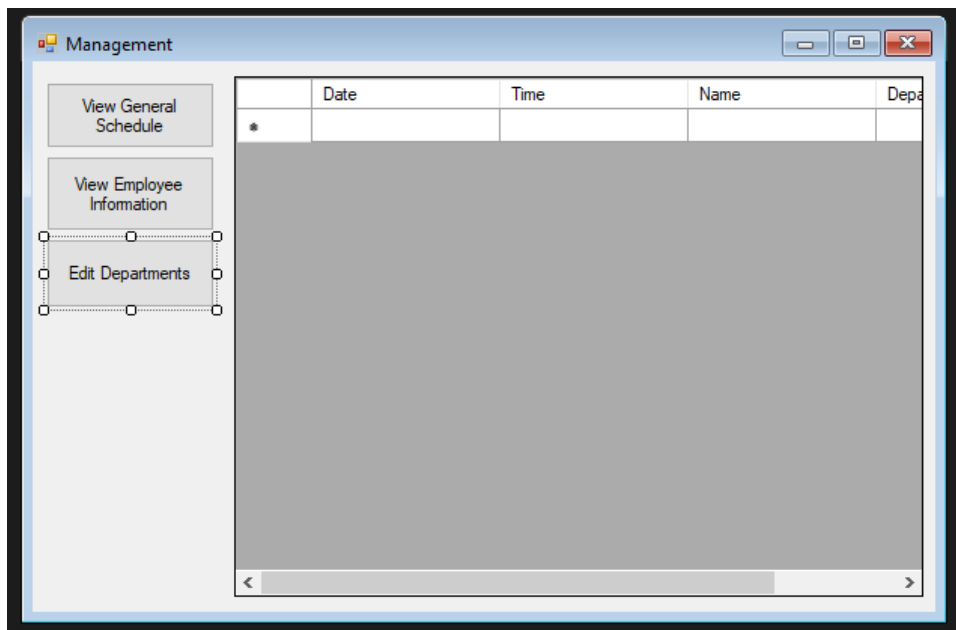
Here are some basic screenshots of the GUI to see what functionality the program will have. The screenshots shown only provide the general idea so the design will be changed later.



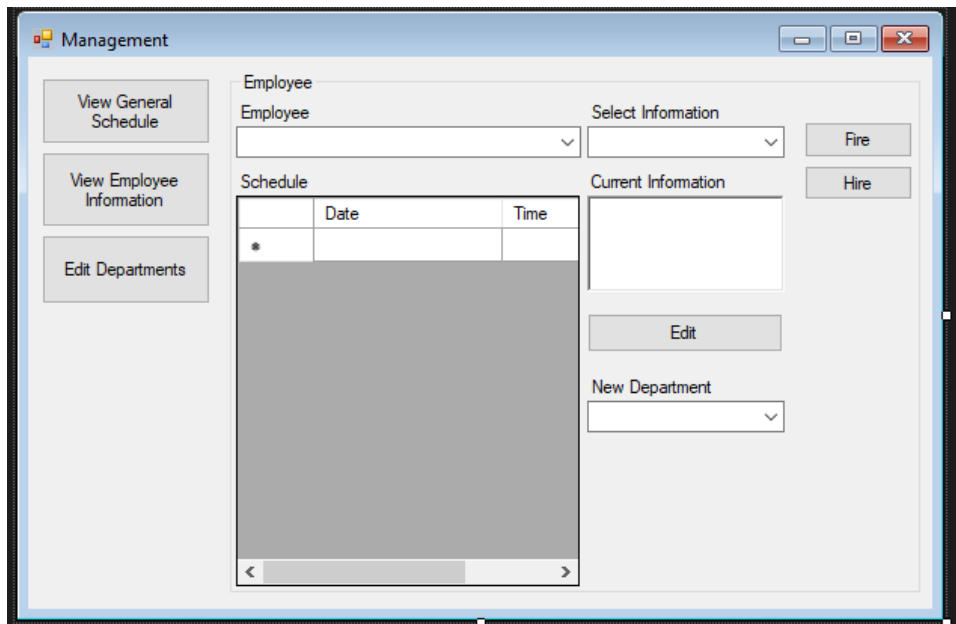
On the first page the user will be able to log in, depending on the account types different accounts will be able to access different parts of the software.



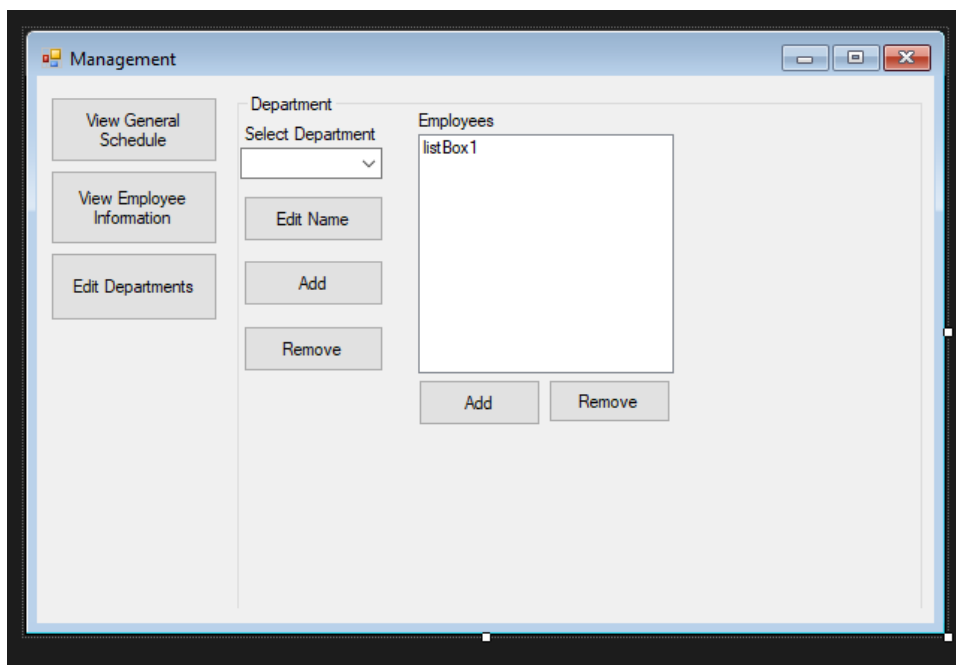
In the stock management window, the user will be able to see the database with the current stock and be able to edit it such as adding and deleting items. The items Bought and Future Delivery functionality may or may not be implemented.



The manager window will have 3 main tabs, one will show the schedule which like stock can be edited.



The second tab will show the employee information, their schedule and let the manager edit the information and add or fire employees.



The third tab will allow the manager to edit the department information as well as see and edit the employees who work there.