

Software Engineering Semester 2

MEDIA BAZZAR

User Requirements Specifications

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S-CB-S2-CMK Group 3



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Introduction

This document formally describes the user requirements for the creation of media Bazzar's system for managing employees and stock.

The project consists of different stages and will produce several versions during development. These versions should function as independent products and will be used to assess the progress of the project and to determine the project's course. The final product will depend on the approach used to achieve the most successful results.

Client agreement overview

After meeting the client, there was an agreement between the developers and client regarding major functionalities of the system they are noted below:

- Adding employees.
- Removing employees.
- Viewing current employees.
- Adding products to the stock.
- Removing products from stock.
- Viewing overall statistics about employees.
- Viewing overall statistics about stock.
- Adding Departments.
- Removing Departments.

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**ebite.

Must have

- (FR-01-A) - General management can see overall statistics about employees.
- (FR-02-A) - General management can see overall statistics about stock.
- (FR-03-A) - Stock manager can increase the amount of a product to the current stock.
- (FR-04-A) - Stock manager can decrease an amount from the current stock.
- (FR-05-A) - Employee can decrease an amount from the current stock.
- (FR-06-A) - Stock manager can add products to the stock.
- (FR-07-A) - Stock manager can remove products from the stock.
- (FR-08-A) - Employee manager can add employees.
- (FR-09-A) - Employee manager can update record of employees.
- (FR-10-A) - Employee manager can see the current employees.
- (FR-11-A) - Stock Manager can view information about **all product currently in stock**.
- (FR-12-A) - Employee can see a shelf restock request.

Should have

- (FR-13-A) - Admin can add departments.
- (FR-14-A) - Admin can remove departments.
- (FR-15-W) - Employee manager can see personal information about an employee.
- (FR-16-W) - Employee manager can create a schedule for employees.
- (FR-17-W) - Employee manager can assign employees to a department.
- (FR-18-W) - Employee can see his own schedule.
- (FR-19-A) - Employee can record his own attendance.

Could have

- (FR-20-W) - Employee manager can edit the schedule after creation.
- (FR-21-W) - Employee can request a leave of absence.

Use Cases

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

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

(ID)Name	(FR-02-A) Insight into stock statistics
Summary	Managers can view various statistics about stock.
Actor	General Manager
Assumption(s)	General Manager is logged into his account and navigated to statistics.
Main success scenario	<ol style="list-style-type: none"> 1. The actor chooses if he wants to see stock. 2. The system loads in the statistics based on the managers choice 3. The actor chooses if he wants to see specific or general statistics. 4. The system displays general or specific statistics based on the managers choice.
Extensions	<p>3.a There is no specific statistics for the selected product.</p> <p>3.b The system will give a warning that there is no information available.</p>
Result	The manager can view various statistics about the stock. Also, specific or general.

(ID)Name	(FR-03-A) Stock manager can increase the amount of a product in current stock.
Summary	Increase the amount of a specific product in stock.
Actor	Stock manager
Assumption(s)	Is in the stock page of the application and navigated to a certain product.
Main success scenario	<ol style="list-style-type: none"> 1. The actor chooses an amount. 2. The system locks in the amount and asks for a final confirmation. 3. The actor confirms amount 4. The system changes the current product amount accordingly.
Extensions	<p>1.a The actor enters an invalid amount</p> <p>1.b The system will give a warning that there is an invalid amount.</p>
Result	The stock manager added a certain amount of a products stock.

(ID)Name	(FR-04-A) Stock manager can decrease a product amount from the current stock.
Summary	Decrease the amount of a certain product in stock.
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 chooses an amount. 2. The system locks in the amount and asks for a final confirmation. 3. The actor chooses the required confirmation. 4. The system changes the current amount of product accordingly.
Extensions	1.a The actor enters an invalid amount 1.b The system will give a warning that there is an invalid amount.
Result	The stock manager removed a certain amount of a products stock.

(ID)Name	(FR-05-A) Employee can decrease a product amount from the current stock.
Summary	Decrease the amount of a certain product in stock.
Actor	Employee
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 chooses an amount. 2. The system locks in the amount and asks for a final confirmation. 3. The actor chooses the required confirmation. 4. The system changes the current amount of product accordingly.
Extensions	1.a The actor enters an invalid amount 1.b The system will give a warning that there is an invalid amount.
Result	The employee removed a certain amount of a products stock.

(ID)Name	(FR-06-A) Add a product to the stock
Summary	Add 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 inputs a product name, ID and all other information about product. 2. The system adds the product to the stores inventory.
Extensions	1.a The system doesn't accept the product ID inputted 1.b The system informs user and requests user new product ID. 1.c The actor input new product ID. 1.d The system adds the product to the stores inventory.
Result	The stock manager added a certain product to the stores inventory.

(ID)Name	(FR-07-A) Remove a product from the stock
Summary	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. 2. The system displays the product. 3. The actor chooses to remove product. 3. The system deletes the product out of the stores inventory.
Extensions	1.a The system can't find the product ID. 1.c The system informs the user about error and requests he inputs a product ID currently in stock. 1.d The actor inputs correct ID. 1.e The system removes the product from the stores inventory.
Result	The stock manager removed a certain product to the stores inventory.

(ID)Name	(FR-08-A) Add an employee
Summary	Add an employee to 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 inputs name of soon-to-be employee and ID. 2. The actor chooses option to add employee. 3. The system adds the employee with the given reason attached to it.
Extensions	1.a The system can't add employee. 1.b The system informs the user the current ID has been taken. 1.c The actor inputs a new ID and required information. 1d. MSS 2 executed.
Result	The employee manager added certain employee to the stores system.

(ID)Name	(FR-09-A) Update record of employees
Summary	Update record of employees to save employees who leave.
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 an employee ID. 2. The system displays the employee. 3. The actor chooses option to change current status of employee. 4. The system asks the actor for a reason. 5. The actor inserts a reason. 4. The system updates the employee's record with the given reason attached.
Extensions	1.a The system can't find the ID 1.b The system informs the actor and requests to input an employee ID currently in the system 1.c The actor inserts correct ID 1.d MSS 2 is Executed
Result	The employee manager updated a certain employee record.

(ID)Name	(FR-10-A) 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 and chooses to view all employees 2. The system will show all the employees employed
Extensions	2a. The system has no data 2b. The system informs actor
Result	The employee manager has an overview of all the employees employed.

(ID)Name	(FR-11-A) Stock manager can view information about all product currently in stock.
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 chooses if he wants to see stock. 2. The system loads in the statistics based on the stock manager choice. 3. The actor chooses if he wants to see specific or general statistics. 4. The system displays general or specific statistics based on the managers choice.
Extension	2a. The system has no data. 2b. The system informs actor.
Result	The stock manager can view information about the product in current inventory.

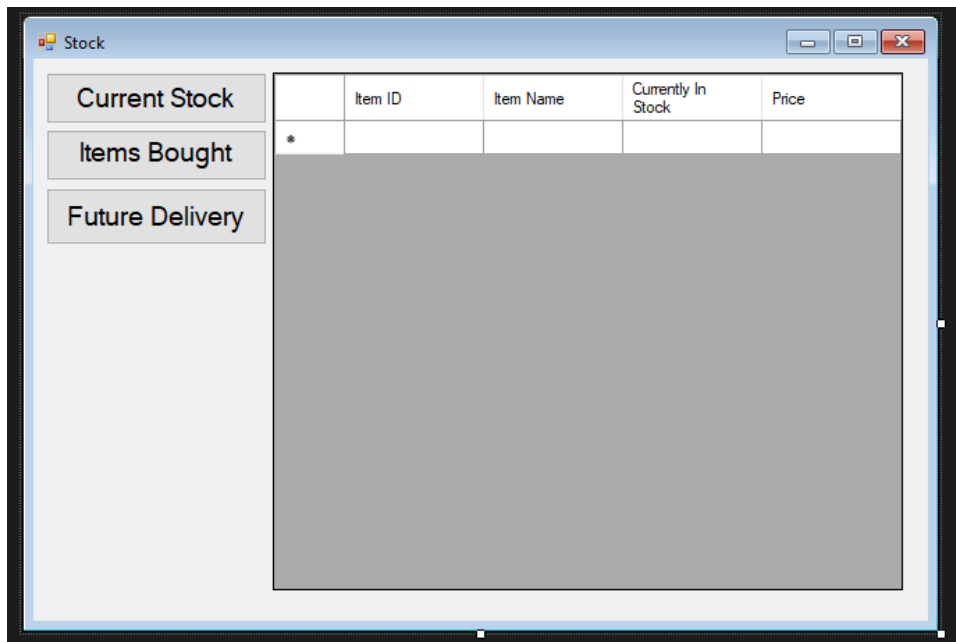
(ID)Name	(FR-12-A) - Employee can see a shelf restock request.
Summary	System shows employee a message to restock an empty shelf
Actor	Employee
Assumption(s)	Currently in the stock window
Main success scenario	<ol style="list-style-type: none"> 1. Employee removes product from inventory 2. System checks inventory and alerts employees of the empty stock
Extension	none
Result	The Employee can see the shelf restock request

GUI

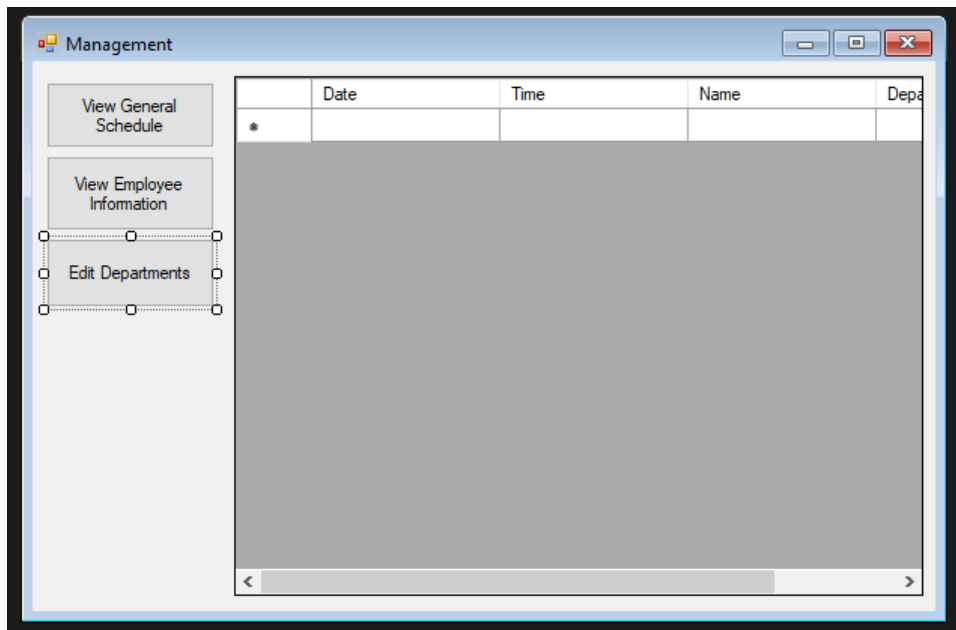
Here are some basic screenshots of the GUI to see what functionality the program will have. The screenshots shown only provide the general idea so the design will be changed later.



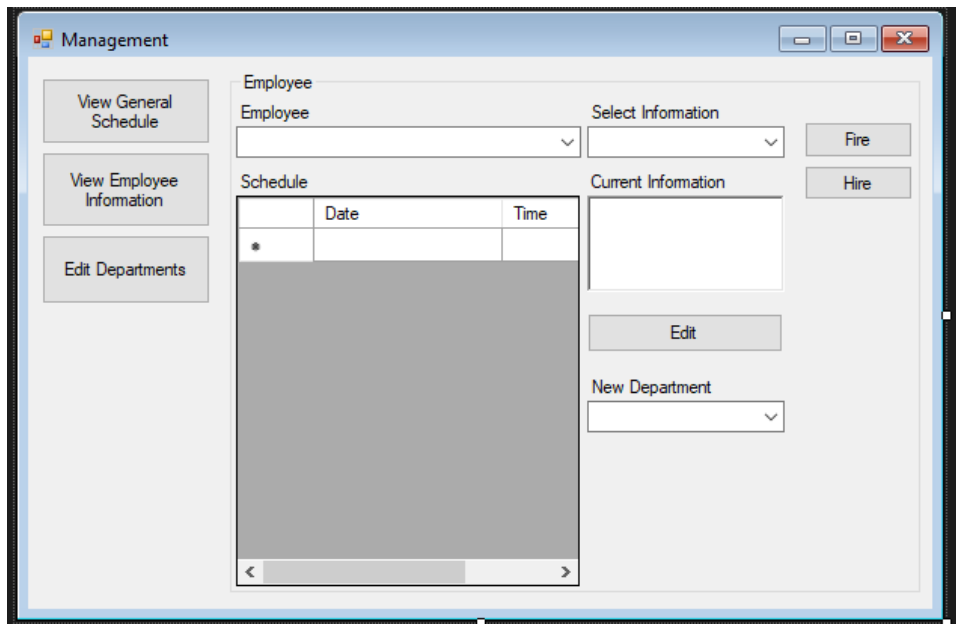
On the first page the user will be able to log in, depending on the account types, different accounts will be able to access different parts of the software.



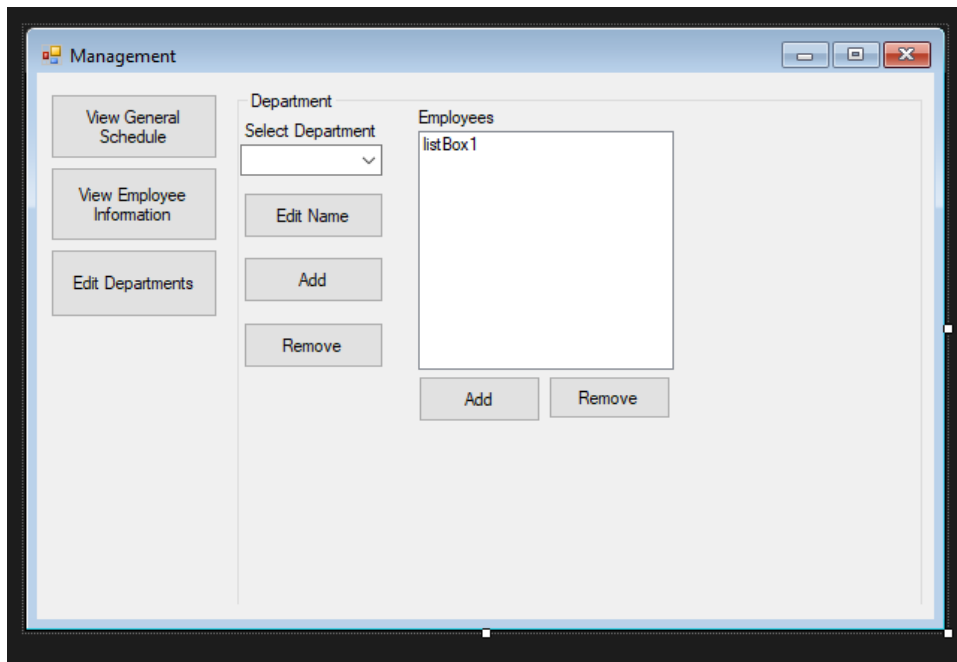
In the stock management window, the user will be able to see the database with the current stock and be able to edit it such as adding and deleting items. The items Bought and future delivery functionality may or may not be implemented.



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.