

User Requirement Specification

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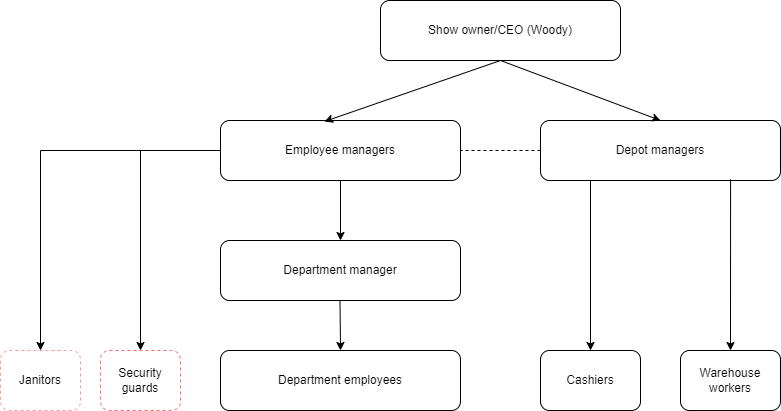
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# Introduction

This document aims to provide insight into the technical aspects of the project for the **first 6 weeks** (waterfall phase).

In order to make the user requirements more easily understandable and imaginable, we have created the following employee hierarchy scheme.



*(Fig.1)*

Note: Janitors and Security personnel will not have any interaction with the software in its initial versions.

# User requirements

This document uses the MoSCoW user requirement classification system, in which each letter stands for the following:

**M – Must have:** will be implemented mandatorily  
**S – Should have:** will be implemented but possibly not during the first phase.  
**C – Could have:** potential ideas that are not essential but might be implemented at some point  
**W – Won’t have:** features that will not be implemented

### Employees

1. FR-01 (M): Employees must be able to log in the software  
   (except for janitors and security personnel)
2. FR-02 (M): Employees must be able to log out of the software
3. FR-03 (M): The program will feature different types of employees as in Fig.1
4. FR-04 (M): Employee managers must be able to see all the employees
5. FR-05 (M): Employee managers must be able to add employees.
6. FR-06 (M): Employee managers must be able to remove employees.
7. FR-07 (M): Employee managers must be able to edit the details of employees.
8. FR-08 (M): CEO has no restrictions to any features
9. FR-09 (S): Departments can be added or removed by employee managers

### Scheduling

1. FR-10 (S): Employee managers should be able to assign shifts to personnel
2. FR-11 (S): Employee managers should be able to view the work schedule for all personnel
3. FR-12 (S): Department managers can view the employees in their department
4. FR-13 (C): Department managers can mark attendance for department employees
5. FR-14 (S): Depot managers can view the cashiers and warehouse workers
6. FR-15 (C): Depot managers can mark attendance for cashiers and warehouse workers

### Inventory & SALES

1. FR-16 (S): Certain employees should be able to see the inventory
2. FR-17 (S): Depot managers can see all items in the inventory
3. FR-18 (S): Depot managers can modify (order/restock) the inventory
4. FR-19 (S): Depot managers can add new products
5. FR-20 (S): Depot managers can remove products
6. FR-21 (S): Cashiers can sell products from the inventory
7. FR-22 (C): Cashiers can use barcode scanner to easily sell products

# Use Cases

### Non-account specific

### UC-01

Use case: Log in the application

Actor: Employee

Main Success Scenario:

1. Employee fills out credentials and confirms
2. System navigates user to app’s home page

Extensions:

1a. Credentials are incorrect

1. System displays wrong credentials message
2. End of use case

### UC-02

Use case: Log out the application

Actor: Employee

Main Success Scenario:

1. Employee clicks log out button
2. System navigates user to app’s log in page

### UC-03

Use case: Employee managers must be able to see the details of employees.

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

Main Success Scenario

1. User clicks “Manage employees” Button
2. System navigates user to “Manage employees” screen
3. System displays list of employees

### UC-04

Use case: Employee managers adds an employee to the system

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage employees” screen

Main Success Scenario

1. User clicks “Add employee” button
2. System navigates to “Add employee” screen
3. User fills new employee’s details
4. User clicks “Add employee to list” button
5. System adds employee to the database
6. System displays success message

Extension:

4a. Employee details are incorrect

1. System displays error message

2. Return to MSS step 3

### UC-05

Use case: Employee managers removes an employee from the system

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage employees” screen

Main Success Scenario

1. User selects employee to be removed from list
2. User clicks “Remove employee button” and confirms
3. System removes the employee
4. System displays success message

Extension:

2a: User clicks “Remove employee” button and rejects confirmation

1. End of use case

### UC-06

Use case: Employee managers edits the details of an employee.

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage employees” screen

Main Success Scenario

1. User selects an employee form the list
2. User clicks “Edit info” button
3. System navigates to “Edit info” Screen
4. User fills in new employee information
5. User clicks “Submit changes” button
6. System displays success message
7. System navigates to “Manage employees” screen

Extension:

5a. Employee details are incorrect

1. System displays error message

2. Return to MSS step 4

### UC-07

Use case: Employee manager sees all departments

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

Main Success Scenario

1. User clicks “Manage departments” button
2. System navigates to “Manage departments” screen
3. System displays departments info

### UC-08

Use case: Employee managers adds a department to the system

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage departments” screen

Main Success Scenario

1. User clicks “Add department” button
2. System navigates to “Add department” screen
3. User fills new department’s details
4. User clicks “Add department to list” button
5. System adds department
6. System displays success message

Extension:

4a. Department details are incorrect

1. System displays error message

2. Return to MSS step 3

### UC-09

Use case: Employee managers removes a department from the system

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage department” screen

Main Success Scenario

1. User selects department to be removed from list
2. User clicks “Remove department button” and confirms
3. System removes the department
4. System displays success message

Extension:

2a: User clicks “Remove department” button and rejects confirmation

1. End of use case

### UC-10

Use case: Employee managers edits the details of a department.

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage department” screen

Main Success Scenario

1. User selects a department form the list
2. User clicks “Edit info” button
3. System navigates to “Edit info” Screen
4. User fills in new department information
5. User clicks “Submit changes” button
6. System displays success message
7. System navigates to “Manage department” screen

Extension:

5a. department details are incorrect

1. System displays error message

2. Return to MSS step 4

### UC-11

Use case: Employee managers assign shifts to personnel

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage employee” screen

Main Success Scenario

1. User selects an employee
2. User clicks “Manage work shift” button
3. System navigates to “Manage work shift” screen
4. User selects day from calendar and fills in information
5. Users clicks submit button
6. System adds work shift

Extensions:

5a: Employee reached maximum hours for his contract

1. System displays error message
2. Return to MSS step 4

5b: Employee is assigned to morning shift and already has evening shift the previous day

1. System displays error message
2. Return to MSS step 4

### UC-12

Use case: Employee managers deletes work shift to personnel

Actor: Employee manager

Pre-Condition: Logged in as Employee manager

On the “Manage employee” screen

Main Success Scenario

1. User selects an employee
2. User clicks “Manage work shift” button
3. System navigates to “Manage work shift” screen
4. User selects day from calendar
5. Users clicks delete shift button
6. System deletes work shift