

URS



STUDY : PROTO

Location:

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Agreements with Client:

1. Employee administration is the most important part of the program, followed by stock
2. The following will be the information on employees:
 - First name
 - Surname
 - Username (account)
 - Password (account)
 - Phone number
 - Address
 - Email address
 - Spouse (and contact details)
 - Date of birth
 - BSN (Social security number)
 - Functions (at least one, possibly more functions the employee can serve as e.g. sales representative)
3. Employees will manage their password as well as information that is subject to change(example: Spouse, address, etc...) They will be able to also see the unchangeable information like BSN. //list them in detail, to make it less unambiguous
4. In order to search for employees you can use either their ID or name
5. Application will be build for Windows
6. Employees will check in when arriving and out when leaving. Tracking break time is not needed
7. An employee can have 1 or 2 shifts per day. In the latter case they must be consecutive
8. All employees will use the website but they will only see their information and schedule
9. Website pages should have a clear focus on the topic and have an intuitive to use interface
10. The main statistics tracked are the number of employees, the average number of shifts, the number of hours compared to their contract, and the illness rates. The client would like to have the total number of employees and products. About stock, he would like to see the stock levels, avg time between replenishment of actions and stock.

Functional requirements

- FR-1: Administration should be able to manage employees data.(Add/Remove/Update)
- FR-2: Administration should be able to assign an employee to a department. //not high priority
- FR-3: Administration should be able to schedule the employees.(Add/ Remove/ Update)
- FR-4: Administration should be able to mark employees' attendance.
- FR-5: Administration should be able to view employees statistics.
- FR-6: Administration should be able to view/search for an employee.
- FR-7: Sales representative should be able to request stock from the depot.
- FR-8: Sales representative should be able to view requested status information.
- FR-9: Sales representative should be able to confirm product delivery
- FR-10: Depot should be able to manage products.(add/remove/deactivate/update)
- FR-11: Depot should be able to activate/complete stock refill request.(send the stock with a processing ticket which is accepted by the sales representative when it arrives in the store)
- FR-12: Depot should be able to open stock requests. // open? you mean view in detail or just simple overview
- FR-13: Depot should be able to respond to stock requests.
- FR-14: User should be able to log in into the application.
- FR-15: User should be able to logout of the application.
- FR-16: User should be able to log into the website.(web)
- FR-17: User should be able to edit profile information.(web)
- FR-18: User should be able to view working shifts.(web)
- FR-19: User should be able to logout of the website

Moscow prioritization table

Administration				
Functional Requirements	M	S	C	W
Manage employees account	X			
Manage employees schedule	X			
View/Search employee	X			
assign an employee to a department		X		
View inactive/removed employee's information			X	
Delete employee account			X	

Sales representative				
Functional Requirements	M	S	C	W
Request stock	X			

View request status	X			
Confirm product receival	X			

Depo				
Functional Requirements	M	S	C	W
View/search stock data	X			
manage stock data	X			
Remove deactivated product	X			
Activate & complete stock refill request	X			

User				
Functional Requirements	M	S	C	W
Login(application,website)	X			

Website				
Functional Requirements	M	S	C	W
Login	X			
Edit profile info	X			
View working shifts	X			

Use Cases:

Potential end users are company's staff that maintain and view the information in the software and website.

In the system the following actors should be able to:

Use case: Login to the application or website

Actor: Any User

Pre-Condition:

1. Employee starts the application
2. Employee logs out

Main Success Scenario:

1. Employee fills in credentials and confirms
2. System confirms the credentials exist in the database
3. System redirects the employee to the main page

Extension:

2a: System rejects the credentials

1. System displays an error message informing the user of the wrong provided information.

2. End of use case

C# application:

Use case: Log out clients application

Actor: Any user

Main success scenario:

1. User presses the log out button
2. System logs out user out closing the current window and returning the user to the login window
3. End of use case

Use case: Add employee

Actor: Administration employee

Main success scenario:

1. User goes to a button to add a new employee
2. System requests for employees information
3. Administrator fills in employees personal information (listed in agreements with client number 2).
4. System shows a message box of confirmation to add a new employee

Extensions:

3a: Not all mandatory fields are filled in.

1. System displays a message informing the not all fields filled in the message
2. End of use case

Use Case: Searching for an employee

Actor :Administration employee

Main success scenario :

1. User enters the name or id then confirms
2. System shows the match found along with the employee information(First name, Surname)

Extension

2a: System finds multiple matches

1. System shows multiple matches were found showcasing them inside a list
2. User selects one of the returned employees and confirms
3. End of use case

Use case : Dismissing an employee

Pre-Condition:Administration must search for an employee and select them from a list

Actor :Administration employee

Main success scenario:

1. User presses the deactivate button
2. System displays a new window asking the user to provide a reason
3. User provides the reason and confirms
4. End of use case

Use Case: Permanently removing an employee

Pre-condition: Administration must search for an employee and select them from a list

Actor:Administration employee

Main success scenario:

1. User presses the permanently remove button
2. System opens a new window and asks if they want to proceed
3. User confirms
4. System permanently removes the employee
5. End of use case

Use case : Changing employee data

Pre-Condition : Administration must search for an employee and select them from a list

Actor:Administration employee

Main success scenario :

1. User presses the change data button
2. System displays the current employee information
3. User makes changes to the employee data with the help of text inputs and confirms
4. System displays a confirmation message and saves the changes

Extension:

4a: Filled in information does not match the system criteria

1. System displays an error message informing the user of the problem
2. Return to MMS step 3

Use Case: Assigning shifts

Actor: Administration

Pre-Condition: Administration must search for an employee and select them from a list

Main success scenario:

1. User selects a day from the calendar the view the schedule
2. System displays the assigned employees for each shift in three lists
3. User assigns the shift by pressing one of the 3 buttons labeled accordingly to the time of the shift
4. System assigns the selected user to the chosen date and shift

Extension :

4a: User is already assigned to the chosen time of the shift

1. System display error and inform the user of the already existing member
2. Return to MMS step 1

4b: User is assigned a discontinuous shift

1. System displays and error informing the user that selected member must be assigned consecutive shifts
2. Return to MMS step 1

4c: User assigns a third shift to the selected employee

1. System displays and error informing the user that selected member has reached his shifts limit for the day
2. End of use case

Use Case: Removing an employees shift

Actor: Administration

Pre-condition: Administration must search for an employee and select them from a list

Main success scenario:

1. User selects a day from the calendar the view the schedule
2. System displays the assigned employees for each shift in three lists
3. User selects an employee from the shift
4. User presses the remove from schedule button and the employee is removed from that shift
5. End of use case

Use Case: Mark employee attendance

Actor: Sales representative

Main success scenario:

1. User navigates to the attendance tab
2. User selects a day from the calendar
3. System shows a list of all employees assigned that day
4. User presses the check-in or check-out button to mark his/hers arrival or departure
5. System marks the employee

Extension:

5a: User checks-in after his shift has started

1. System displays a message informing the user of the late arrival
2. Return to MMS step 5

5b: User checks-out before the shift end

1. System opens a new window informing the user of the early departure and ask for confirmation
2. User confirms or presses the go-back button to cancel the action
3. End of use case

Use Case: View employee statistics

Actor:Administration

Main success scenario:

1. User open the statistics tab
2. System displays the employee statistics enumerated in the agreements with the client section(nr.10)
3. End of use case

Use Case:Adding new products

Actor: Depot worker

Main success scenario:

1. Employee goes to the button labeled add product
2. System requests the user to fill in the new products information
3. Employee fills in the new product information, including the amount in stock and confirms
4. System creates a new product, adding it to the list of available products

Extension:

2a: Employee fills in information not matching the systems criteria

1. System displays a wrong information message, informing the employee of the correctness and location of the problem
2. Return to MMS step 2

2b: Employee fills in already existing information

1. System displays an already existent product message
2. The employee is returned to the stock overview page
3. End of use case

Use Case: Permanently removing a product

Pre-condition: Depot Worker must search for a product and select them from a list

Actor:Depot worker

Main Success Scenario:

1. User presses the permanently remove button
2. System opens a new window and asks if they want to proceed
3. User confirms
4. System permanently removes the product

Extension:

1a: No product selected

1. System displays a message informing the user to select a product
2. User confirms
3. End of use case

Use Case: Edit a product

Actor: Depot worker

Pre-condition: User must select an item from the product list

Main success scenario:

1. User goes to the modification form by pressing a button
2. System displays the current product information
3. User makes changes to the product and confirms
4. System displays a confirmation message and saves the changes

Extension:

4a: Filled in information does not match the system criteria

1. System displays an error message informing the user of the problem
2. Return to MMS step 3

Use Case: Making a product unavailable

Actor: Depot worker

Pre-condition: User must edit an existing product

Main Success Scenario:

1. User clicks a radio button in order to make product unavailable
2. User confirms the changes
3. System displays a confirmation message and mark the product as unavailable
4. End of use case

Use Case: Make a stock refill request

Actor: Sales representative

Main success scenario:

1. User selects a product from the list and creating the request by pressing a button
2. System process the order and displays a confirmation message

Extension:

2a: Stock is already at max capacity

1. System displays an error message and cancels the order
2. End of use case

Use case: Accepting stock refill request

Actor: Depot Worker

Main success scenario:

1. The user navigates to the requests tab
2. System displays a list of requests tickets
3. The user selects a ticket from the list and accepts it
4. The system marks the ticket as processed
5. End of use case

Use case: Accepting product delivery

Actor: Sales representative

Main success scenario:

1. User navigates to the product overview tab
2. User selects a product delivery ticket from a list
3. User presses a button to view the ticket
4. System displays ticket information
5. User presses a button to mark the ticket as completed
6. End of use case

Use Case: View product statistics

Actor: Manager

Main success scenario:

1. User open the statistics tab
2. System displays the product statistics enumerated in the agreements with the client section(nr.10)
3. End of use case

Website:

Use Case: Log out clients website

Actor: Any user

Main success scenario:

1. User presses the logo-off button
2. System logs-off the user returning to the login page
3. End of use case

Use case: Viewing workshifs on the website

Actor: Any user

Main success scenario:

1. User enters login credentials and confirms

2. System display an overview of the schedule

Extension:

- 1a: User is already logged in and on another page
 1. User presses the schedule link in the navigation tab
 2. System display the schedule
 3. End of use case

Use case: Editing profile information

Actor: Any user

Pre-condition: User must be logged in

Main success scenario:

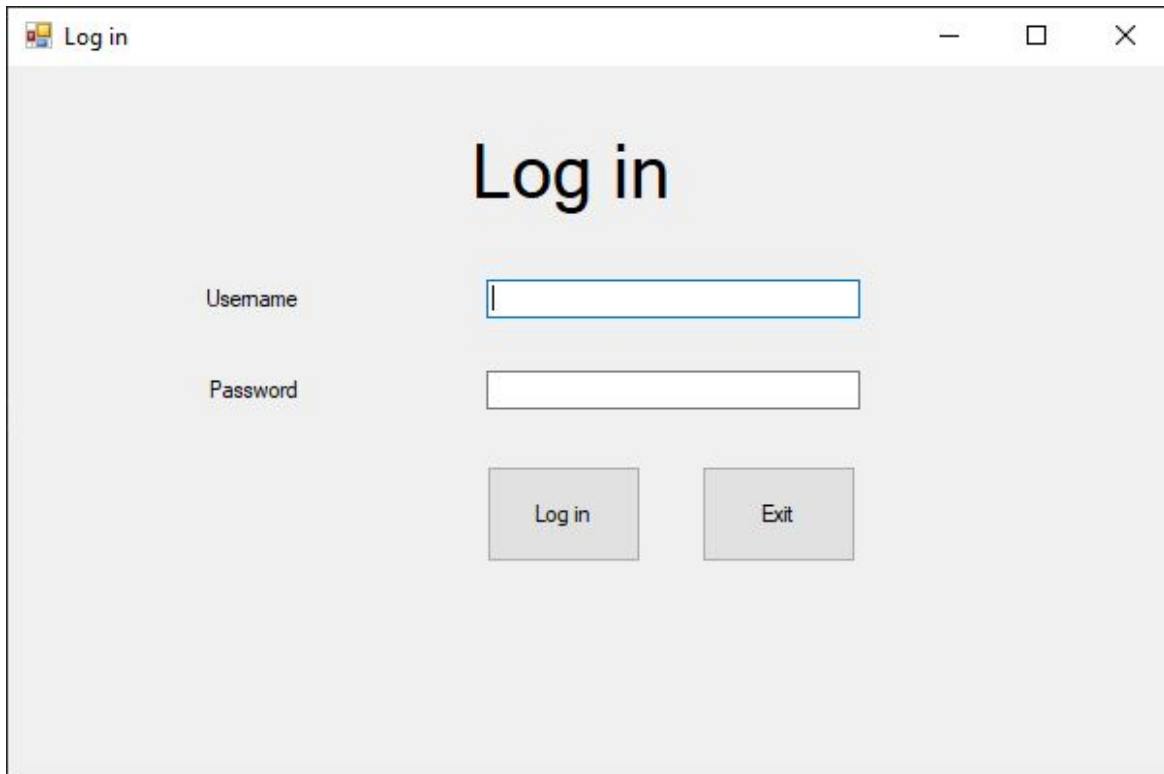
1. User goes to the profile by pressing a button on the navigation tab
2. System displays all the information of the user
3. User presses a button to start editing
4. User makes changes to his personal information and confirms
5. System returns the user the previous page displaying all the updated information

Extension:

- 5a: Filled in information does not match systems criteria
 1. System highlights the affected fields providing the reason for failing the validation under the input options
 2. Return to MMS step 4

GUI:

Log In:



Log in

Username

Password

Log in Exit

FR-20: User should be able to log in into the application.

Description:

The following image represent the log in window that allows users to log in into the application that directs the employee to their required form.

Manage Employee:

The image shows a software window titled "ManageEmployee" with standard window controls (minimize, maximize, close). It features three tabs: "Manage Employee" (selected), "Schedule employees", and "Statistics".

Inside the "Manage Employee" tab, there is a section labeled "Add a new employee" with an "Add employee" button. To the right of this section is a label "label2".

Below this, there is a search section with the text "Search for employee". It contains two input fields: one labeled "ID" and another labeled "Name". Between these fields is the word "Or". To the right of the "Name" field is a "Search" button.

Below the search section is a large, empty rectangular box, likely intended for displaying a list of employees.

At the bottom of the window, there are three buttons: "Change data", "Deactivate Employee", and another "Deactivate Employee" button.

FR-1, FR-6,

Description:

The following image represents the administration window that shows the tab of employees management form. The form allows user to add a new employee by clicking the button(continue to next wireframe) and search for specific employee by their (ID, Name). Additionally the user is allowed to change the users data, dismiss or remove an active employee.

Adding Employee:

The screenshot shows a window titled "AddEmployeeForm" with standard Windows window controls (minimize, maximize, close). The form is divided into two sections: "General Info" and "Login Info".

General Info

- Name: Text input field
- Department: Dropdown menu
- Phone Number: Text input field
- Date of Birth: Date picker showing "Thursday , 17 September"
- BSN: Text input field
- Email: Text input field
- Address: Text input field

Login Info

- Username: Text input field
- Password: Text input field

At the bottom right of the form, there are two buttons: "Add employee" and "Change employee data".

FR-1, FR-2,
Description:

The following image is a follow up for adding an employee in administration form. After clicking the button the user is presented with a new window, user has to fill in all information fields to complete the registration process. Additionally User is able to change employees data by pressing on the button "Change employees data".

Schedule employee:

ManageEmployee

Manage Employee Schedule employees Statistics

Choose a day to view the schedule

September 2020

Mon	Tue	Wed	Thu	Fri	Sat	Sun
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

Today: 17/09/2020

Morning schedule Afternoon schedule Evening Schedule

Search for employee ID Or Name

Search

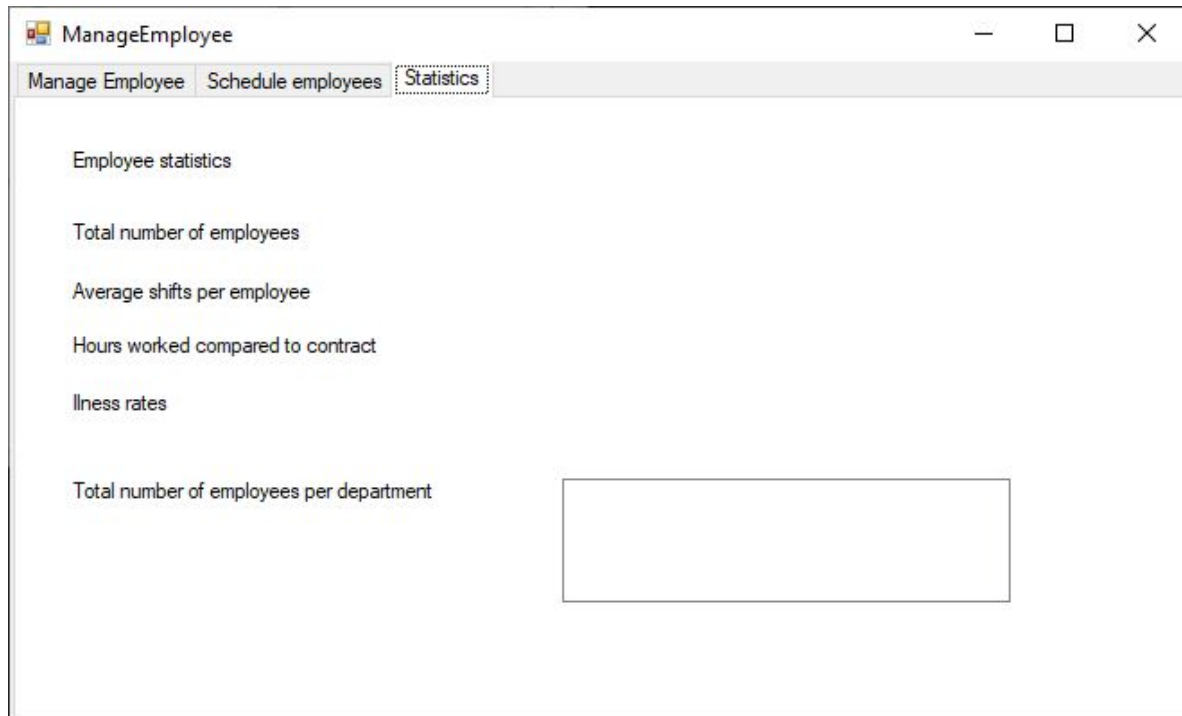
Add to morning Add to afternoon Add to evening

FR-3,FR-4,

Description:

The following image displays the administration employee scheduling window. Users are able to search for a specific employee by id or name and to confirm to view possible matches in the list. Selecting an employee from the list will preview the current shift that the employee has.

Employee Statistics:



FR-5,

Description:

Following picture display Administration statistics tab. The window displays general statistics of employees.

Website wireframe:

Main url to log in:

A wireframe of a login form is centered on a light gray grid background. The form is a gray rectangle containing the following elements from top to bottom: the text "Log in", a label "User" above a white input field, a label "Password" above another white input field, and a "Log in" button. The button is a small gray rectangle with white text. In the bottom right corner of the grid, the dimensions "X: 20 px" and "Y: 17 px" are indicated.

FR-16,

Description:

The following image represents the log in window that allows users to log in into the webpage that directs the employee to their personal page.

Schedule page:

Page 1

https://www.default.com

COMPANY LOGO

[Schedule](#) [Profile](#) [Logout](#)

Work Schedule

For the Week of: March 12, 2020(Monday)

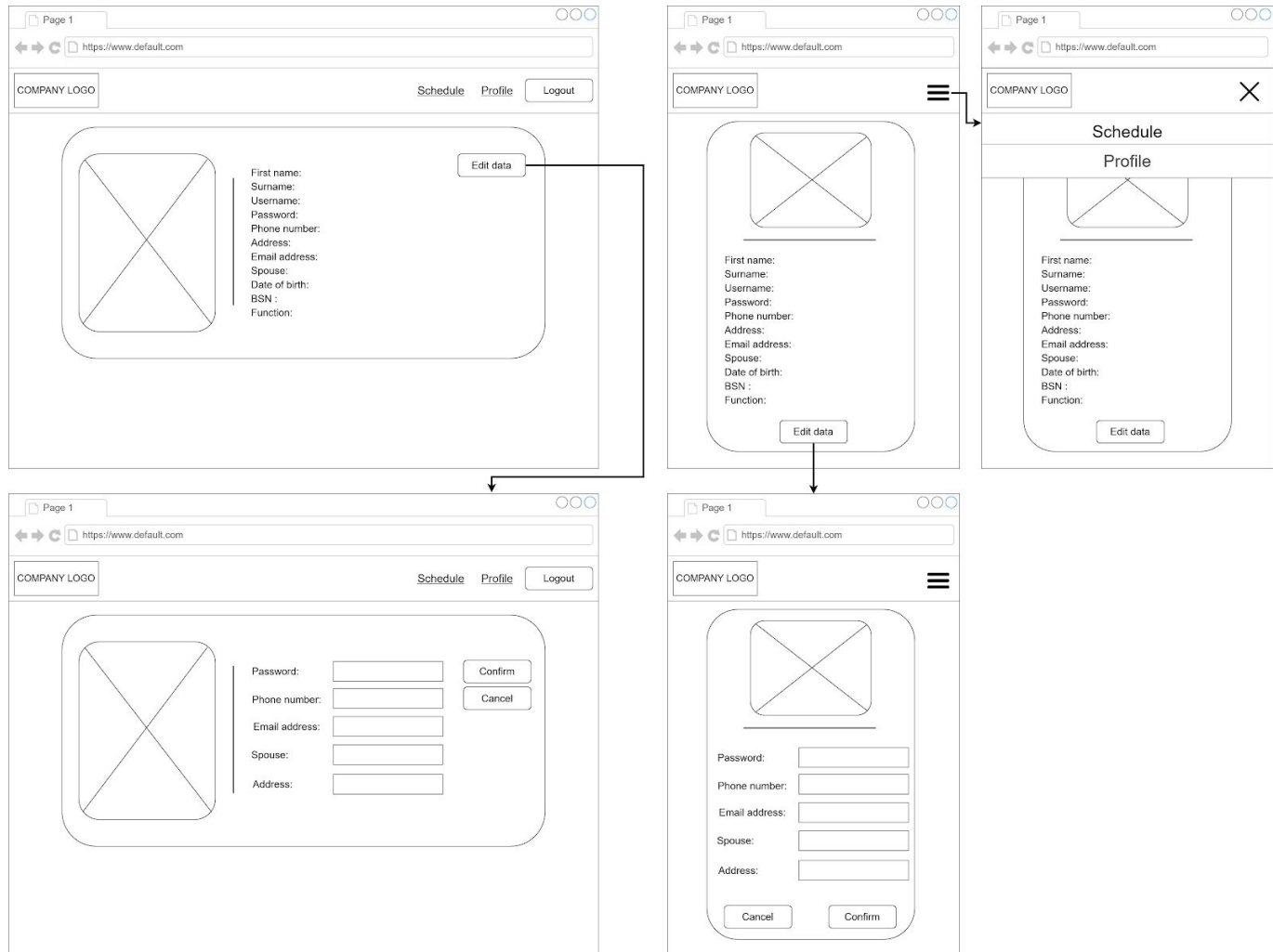
	Mon	Tue	Wed	Thu	Fri	Sat	Sun
7AM							
:30							
8AM							
:30							
9AM							
:30							
10AM							
:30							
11AM							
:30							
12AM							
:30							
1PM							
:30							
2PM							
:30							
3PM							
:30							

FR-18,

Description:

The following image represent employees personal work schedule.

Profile page:



FR-17,FR-19

Description:

Following images represent personal information of account owner.