

User Requirements Specification

Software solution for “Media Bazaar”
GROUP 1

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Agreements with client

Sides:

Client: Media Bazaar represented by Andre Postma, "*Client*" later in this document.

Contractor: Group 1 (name TREE), "*Contractor*" later in this document.

Agreements:

- 1) Contractor does the problem analysis.
- 2) Contractor prepares the problem solution in form of information system.
- 3) Contractor implements the solution in form of standalone software application for Windows operating system and a website.

Application is intended for employee management and shift scheduling. More information can be found in the "Project plan document. Software solution for Media Bazaar."

The website is intended to be used by the employees to view their schedule, announcements, edit personal details and send messages to admins if something occurs and they can't attend work.

- 4) Team presents the product to the Client.
- 5) First phase of the project must be completed before March 25th.
- 6) Second phase of the project must be completed before May 9th.

Functional requirements

- All the requirements were discussed with client. *“User” later in the document is an abstract alias to describe the functionality.*
- *MoSCoW table represents four levels of task prioritizing. The abbreviation stands for Must, Should, Could and Won’t. You may find it in the column 4 (“Priority”).*
We consider it crucially important to define priorities before implementation phase, so both developers and client have realistic expectations on project results.
- *Naming convention:*
{FR-(Abbreviation from user’s type name)-(count in two-digit format)}

Waterfall phase (until March 25th):

ID	Name	Description	Priority
Administration side			
FR-A-01	Login	User can login to the system with personal credentials	Must
FR-A-02	Change password	User can change the password	Must
FR-A-03	View employees	User can view list of employees	Must
FR-A-04	View employee's details	User can view employee's details	
FR-A-05	Add employee	User can add new employee to the system <i>See "Appendix A" for information stored about employees</i>	Must
FR-A-06	Update employee	User can update employee information	Must
FR-A-07	Modify employee status	User can modify employee status (Not started yet, working, stopped)	Must
FR-A-08	View shift schedule	User can view overall work shift schedule for a selected period of time.	Must
FR-A-9	Assign shifts to employee	User can assign one of the three shifts to employee. a. Morning (7:00 – 15:00) b. Day (15:00 – 23:00) c. Night	Must

		(23:00 – 7:00)	
FR-A-10	Update employee's schedule	User can update information concerning employee's schedule.	Must
FR-A-11	Cancel employee's shift	User can cancel shift assignment for the employee	Must
FR-A-12	Add administrator	User can add new administrator to the system	Should
FR-A-13	Add manager	User can add new manager to the system	Should

ID	Name	Description	Priority
Management side			
FR-M-01	Login	User can login to the system with personal credentials	Must
FR-M-02	Change password	User can change the password	Must
FR-M-03	View employees	User can view list of employees	Must
FR-M-04	View employee's details	User can view employee's details	Must
FR-M-05	View shift schedule	User can view overall work shift schedule for a selected period of time.	Must
FR-M-06	View statistical information	User can view statistical information. <i>For a selected date :</i>	Should

		<ul style="list-style-type: none"> i) Total number of employees. ii) Total salary paid. iii) Total number of hours worked. <p><i>For a selected time period:</i></p> <ul style="list-style-type: none"> i) Average number of employees per work shift. ii) Total salary paid to all employees. iii) Average hourly wage per employee iv) Total number of hours worked by all employees. v) Average number of hours worked by an employee. 	
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Please note: More than one iteration is expected soon. In the section below we describe first iteration of length of 3 weeks (until April 18th, 2021).

See “Project plan. Phasing” for more details.

Iteration I (until April 18th):

ID	Name	Description	Priority	Use case
Employee side				
FR-E-01	Login	User can login to the website with personal credentials.	Must	US-W-01
FR-E-02	Logout	User can logout from the system.	Must	US-W-02
FR-E-03	Change password	User can change his/her password	Must	US-W-03
FR-E-04	Change first name	User can change his/her first name	Must	US-W-04
FR-E-05	Change last name	User can change his/her last name	Must	US-W-04
FR-E-06	Change Address	User can change his/her address	Must	US-W-04

FR-E-07	Change email address	User can change his/her email address	Must	US-W-04
FR-E-08	Change username	User can change his/her username	Must	US-W-04
FR-E-09	Change password	User can change his/her automated generated password	Must	US-W-04
FR-E-10	View schedule	User can view own schedule for a certain week.	Must	US-W-05
FR-E-11	Set preferences on schedule	User can set preferences (e.g., days off) on working schedule. <i>See “Appendix B. Availability for shifts” for Preferences arrangement.</i>	Must	US-W-06
FR-E-12	Send message to administrators	User can contact administrators via message.	Should	US-W-07
FR-E-13	View announcements	User can view announcements.	Could	US-W-08

ID	Name	Description	Priority	Use case
Management side				
FR-WM-01	Login	User can login to the system with personal credentials.	Could	US-WM-01
FR-WM-02	View statistical information.	User can view statistical information for a certain period. <i>See "FR-M-06" for details.</i>	Could	US-WM-02

Iteration II (until May 9th):

ID	Name	Description	Priority	Use case
Administrator side				
FR-A-14	View list of products in stock	User can view list of products in stock. <i>See "Appendix C: for details."</i>	Must	US-A-13
FR-A-15	Add product	User can add product to the system. <i>See "Appendix C: for details."</i>	Must	US-A-14
FR-A-16	Modify product's name	User can modify product's name.	Must	US-A-15
FR-A-17	Modify product's cost price	User can modify product's cost price.	Must	US-A-15
FR-A-18	Modify product's selling price	User can modify product's selling price.	Must	US-A-15
FR-A-19	Modify product's size	User can modify product's size.	Must	US-A-15

FR-A-20	Modify product's department	User can modify product's department.	Must	US-A-15
FR-A-21	Modify restocks threshold.	User can modify restocks threshold.	Should	US-A-16
FR-A-22	Delete product from the system.	User can delete product from the system	Must	US-A-17
FR-A-23	Notify product stock is low	User is notified when the number of items in stock is below the restock threshold	Must	US-A-17
FR-A-23	Send a restock request.	User can send a stock request (Product and amount).	Must	US-A-18
FR-A-24	Receive message from stock request	User is notified if the request has been accepted or declined by the depot	Must	US-A-18

ID	Name	Description	Priority	Use case
Depot worker side				
FR-D-1	Login	User can log in.	Must	US-D-1
FR-D-2	Logout	User can logout	Must	US-D-2
FR-D-3	View list of requests.	User can view a list of restock requests.	Must	US-D-3

FR-D-4	Accept restock request.	User can accept restock request.	Must	US-D-4
FR-D-4	Reject restock request.	User can reject restock request.	Must	US-D-5
FR-D-5	Send restock request to depot.	User can send restock request to depot workers	Must	US-D-6

Iteration III (until June 6th):

ID	Name	Description	Priority	Use case
Administrator side				
FR-A-25	View list of departments in stock	User can view list of departments. <i>See "Appendix D: for details."</i>	Must	US-A-25
FR-A-26	Add department	User can add new department. <i>See "Appendix D: for details."</i>	Must	US-A-26
FR-A-27	Modify department 's name	User can modify departments' name.	Must	US-A-27
FR-A-28	Modify department 's Manager.	User can modify department's cost price. <i>*Fixed contract only</i>	Must	US-A-28
FR-A-29	Remove department	User can remove certain department.	Must	US-A-29

FR-A-29	Use auto-scheduling mechanism.	User can input date period and shifts for this period will be scheduled.	Must	US-A-30
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ID	Name	Description	Priority	Use case
Manager side				
FR-M-07	View statistics for employee attendance.	User can view statistics for employee attendance.	Must	US-M-07
FR-M-08	View statistics for employee attendance per department.	User can view statistics for employee attendance per department.	Must	US-M-08

ID	Name	Description	Priority	Use case
Employee side (Website)				
FR-E-14	Check-in for certain shift.	User can check-in for a chosen shift. <i>*only for the future shift in the day of check in.</i>	Must	US-W-09
FR-E-15	Check-out for certain shift.	User can check-out for a chosen shift. <i>*only for the past shift in the day of check in.</i>	Must	US-W-10

Use cases - Application

1) **US-A-01: Administrator logs in**

Actors: Administrator

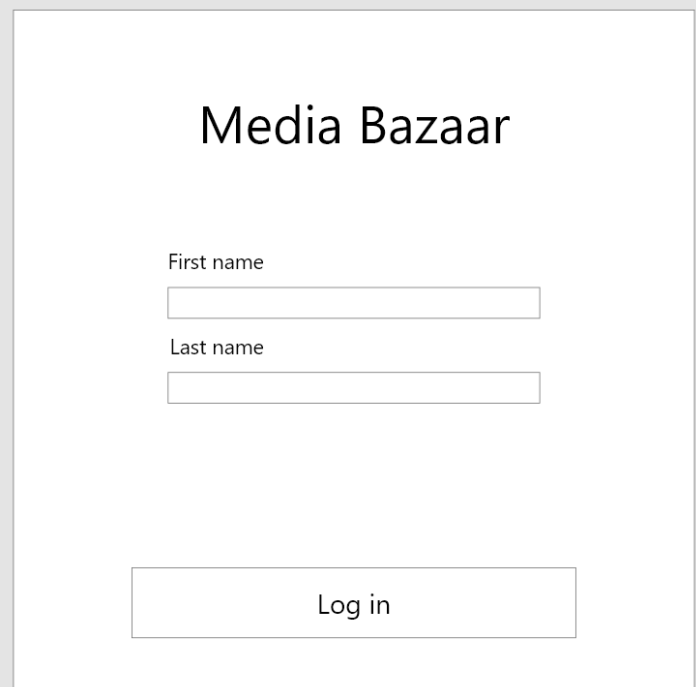
Requirement(s): **FR-A-01**

Main Success Scenario:

1. Administrator runs on app icon.
2. Login form is open.
3. Administrator inputs login and password.
4. Administrator presses “Log in”.
5. Administrator form is open.

Extension:

1. Field is empty
 - a. Notify user.
2. Login is incorrect
 - a. Notify user.
3. Password is incorrect
 - a. Notify user.



The screenshot shows a login interface for 'Media Bazaar'. At the top, the title 'Media Bazaar' is centered. Below it, there are two input fields: 'First name' and 'Last name', each with a corresponding text box. At the bottom, there is a 'Log in' button.

2) **US-A-02: Administrator logs out**

Actors: Administrator

Requirement(s): **FR-A-02**

Main Success Scenario:

1. Administrator clicks on “Log out”.
2. Log in form is opened.

The screenshot shows a web application interface. At the top, there is a navigation bar with tabs: 'My Account', 'Employees', 'Calendar', and 'Accounts'. On the right side of the navigation bar, there is a 'Log out' button. A red arrow points to this button. Below the navigation bar, there is a large white box with a blue border. Inside this box, the text 'Welcome, name' is displayed. Below this text, there are three input fields for 'Current password:', 'New password:', and 'Repeat password:'. At the bottom of the box, there is a 'Change' button.

3) **US-A-02: Administrator changes password**

Actors: Administrator

Requirement(s): **FR-A-03**

Main Success Scenario:

1. Administrator clicks on “MyAccount”.
2. Administrator inserts current password.
3. Administrator inserts new password.
4. Administrator repeats new password.
5. Administrator clicks on “Change”.
6. System shows that information has been successfully updated.

Extension:

1. Field is empty
 - a. Notify user.
2. Current password is wrong.
 - a. Notify user.

4) **US-A-04: Administrator views the list of employees**

Actors: Administrator

Requirement(s): **FR-A-04**

Main Success Scenario:

1. Administrator clicks on “Employees”.
2. Grid with employee information is shown

Id	First name	Last name	Department	Email
0	Name	Surname	Dep	email
1	Name	Surname	Dep	email
2	Name	Surname	Dep	email
3	Name	Surname	Dep	email
4	Name	Surname	Dep	email
5	Name	Surname	Dep	email

5) **US-A-05: Administrator view details of certain employee**

Actors: Administrator

Requirement(s): **FR-A-05**

Main Success Scenario:

1. Administrator clicks on “Employees”.
2. Grid with employee information is shown.
3. Administrator clicks on certain row.
4. Row, representing a certain employee is now selected.
5. Administrator clicks on view
6. Separate form with details is opened.

First name <input type="text"/>	Id <input type="text"/>	Hourly wage <input type="text"/>
Last name <input type="text"/>	Email <input type="text"/>	Account number <input type="text"/>
Country <input type="text"/>	Date of birth <input type="text"/>	Department <input type="text"/>
City <input type="text"/>	Date of first working day <input type="text"/>	Role <input type="text"/>
Street <input type="text"/>	Number <input type="text"/>	Contract <input type="text"/>
Zip-code <input type="text"/>	Shifts <input type="text"/>	
	Status <input type="text"/>	
<input type="button" value="Done"/>		

Please note: In this case fields are read-only. Meaning one can read but not modify.

6) US-A-06: Administrator adds new employee to the system

Actors: Administrator

Requirement(s): **FR-A-06**

Main Success Scenario:

1. Administrator clicks on "Employees".
2. Administrator clicks on "Add employee".
3. Separate form is opened.
4. Administrators insert all the data needed. *(See Appendix A for details)*
5. Administrator clicks on "Add".
6. System notifies user that new employee was successfully added.
 - a. Automatically generated password is shown on the screen
 - i. Administrator writes it down on paper and closes the window with password.

Extension:

1. Field is empty
 - a. Notify user.
2. Email is invalid format.
 - a. Notify user.
3. Name is invalid format.
 - a. Notify user.

First name	Email	Hourly wage
<input type="text"/>	<input type="text"/>	<input type="text"/>
Last name	Date of birth	Account number
<input type="text"/>	<input type="text"/>	<input type="text"/>
Country	Date of first working day	Department
<input type="text"/>	<input type="text"/>	<input type="text"/>
City	Shifts	Role
<input type="text"/>	<input type="text"/>	<input type="text"/>
Street	Status	Contract
<input type="text"/>	<input type="text"/>	<input type="text"/>
Number		
<input type="text"/>		
Zip-code		
<input type="text"/>		
<input type="button" value="Add employee"/>		

7) **US-A-07: Administrator updates employee information**

Actors: Administrator

Requirement(s): **FR-A-07, FR-A-08**

Main Success Scenario:

1. Administrator clicks on “*Employees*”.
2. Grid with employee information is shown.
3. Administrator clicks on certain row.
4. Row, representing a certain employee is now selected.
5. Administrator clicks on “*Edit*”.
6. Separate form with details is opened.
7. Administrator may change certain fields.
8. Employee status may be changed.

Extension:

1. Field is empty.
 - a. Notify user.
2. Email is invalid format.
 - a. Notify user.
3. Name is invalid format.
 - a. Notify user.

First name	Id	Hourly wage
<input type="text"/>	<input type="text"/>	<input type="text"/>
Last name	Email	Account number
<input type="text"/>	<input type="text"/>	<input type="text"/>
Country	Date of birth	Department
<input type="text"/>	<input type="text"/>	<input type="text"/>
City	Date of first working day	Role
<input type="text"/>	<input type="text"/>	<input type="text"/>
Street	Shifts	Contract
<input type="text"/>	<input type="text"/>	<input type="text"/>
Number	Status	
<input type="text"/>	<input type="text"/>	
Zip-code		
<input type="text"/>		
<input type="button" value="Edit"/>		

Please note: Only certain field may be modified. See “Appendix A” for more details.

8) US-A-08: Administrator views overall work shift schedule for a selected period.

Actors: Administrator

Requirement(s): **FR-A-09**

Main Success Scenario:

1. Administrator clicks on “*Schedule*”.
2. Administrator selects the certain dates
3. Schedule with requested dates is shown.
4. Administrator clicks on certain shift.
5. Separate form with details is opened.
6. Administrator sees the list of employees assigned to the shift.
7. Administrator clicks on “*Done*”.

My Account Employees **Schedule** Accounts

Log out

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night
Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night
Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night
Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night	Monday Day Night
Monday Day Night	Monday Day Night	Monday Day Night				

Date

Previous week Next week Show

A label referenced by red arrow (See picture above) is a button. Clicking on it opens a separate window (See next page).

9) US-A-09: Administrator assigns shift to employee

Actors: Administrator

Requirement(s): **FR-A-10**

Main Success Scenario:

1. Administrator clicks on “Schedule”.
2. Administrator selects the certain dates
3. Schedule with requested dates is shown.
4. Administrator clicks on certain shift.
5. Separate form with details is opened.
6. Administrator sees the list of available employees.
7. Administrator chooses employee from the list.
8. Administrator clicks on “Assign”.
9. Administrator clicks on “Done”.

All shop workers

Search

Search

Employee 1	0001
Employee 1	0001
Employee 1	0001
Employee 1	0001
Employee 1	0001
Employee 1	0001

Assign

Cancel

Assigned shop workers

Employee 1	0001
Employee 1	0001

Done

In the separate window administrator can see the list of available shop workers and list of shop workers assigned for this shift.

10) US-A-10: Administrator updates the schedule

Actors: Administrator

Requirement(s): **FR-A-11, FR-A-12**

Main Success Scenario:

1. Administrator clicks on “Schedule”.
2. Administrator selects the certain dates
3. Schedule with requested dates is shown.
4. Administrator clicks on certain shift.
5. Separate form with details is opened.
6. Administrator sees the list of employees.
7. Administrator chooses employee from the list
8. Administrator clicks on “Cancel”.
9. Administrator clicks on “Done”.

The screenshot shows a web application interface for managing shop workers. It is divided into two main sections: 'All shop workers' on the left and 'Assigned shop workers' on the right. The 'All shop workers' section includes a search bar with a 'Search' button and a table listing employees. The 'Assigned shop workers' section contains an empty table. Between these two sections are two buttons: 'Assign' and 'Cancel'. A red arrow points from the bottom of the 'All shop workers' table to the 'Cancel' button. At the bottom center of the interface is a 'Done' button.

All shop workers	
Employee 1	0001
Employee 1	0001
Employee 1	0001
Employee 1	0001
Employee 1	0001
Employee 1	0001

Search

Assigned shop workers	
Employee 1	0001
Employee 1	0001

11) US-A-11: Administrator adds new user to the system

Actors: Administrator

Requirement(s): **FR-A-12, FR-A-13**

Main Success Scenario:

1. Administrator clicks on “Accounts”.
2. List of accounts is shown.
3. Administrator clicks on “Add”.
4. Separate form is opened.
5. Administrator fills in the textboxes.
6. Administrator clicks on “Add”.

My Account Employees Schedule Accounts

Search

First name	Last name	Role	Email
Name 1	Surname 1	Administrator	adm@mediabazaar.com
Name 1	Surname 1	Administrator	adm@mediabazaar.com
Name 1	Surname 1	Manager	manager@mediabazaar.com
Name 1	Surname 1	Manager	manager@mediabazaar.com
Name 1	Surname 1	Manager	manager@mediabazaar.com

Add

Remove

Log out

See next page.

Role

First name

Last name

Email

Add

Please note: This is the solution for the first phase of the project. Later more requirements for administrator and manager accounts can be discussed and added.

12) US-A-12: Administrator removes user from the system

Actors: Administrator

Requirement(s): **FR-A-15, FR-A-16**

Main Success Scenario:

1. Administrator clicks on “Accounts”.
2. List of accounts is shown.
3. Administrator clicks on “Remove”.
4. System informs user that operation was successful.

The screenshot shows a web application interface for managing accounts. At the top right is a 'Log out' button. Below it is a navigation bar with tabs: 'My Account', 'Employees', 'Schedule', and 'Accounts' (which is selected). Under the 'Accounts' tab, there is a search bar with a 'Search' button. Below the search bar is a table with four columns: 'First name', 'Last name', 'Role', and 'Email'. The table contains six rows of data, each with 'Name 1' as the first name, 'Surname 1' as the last name, and either 'Administrator' or 'Manager' as the role. The email addresses are 'adm@mediabazaar.com' for administrators and 'manager@mediabazaar.com' for managers. To the right of the table are two buttons: 'Add' and 'Remove'. A red arrow points to the 'Remove' button.

First name	Last name	Role	Email
Name 1	Surname 1	Administrator	adm@mediabazaar.com
Name 1	Surname 1	Administrator	adm@mediabazaar.com
Name 1	Surname 1	Manager	manager@mediabazaar.com
Name 1	Surname 1	Manager	manager@mediabazaar.com
Name 1	Surname 1	Manager	manager@mediabazaar.com

13) US-A-13: Administrator views list of products in stock

Actors: Administrator

Requirement(s): **FR-A-14**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on *"Product's list" button*.
2. Separate form loads list of products currently in stock

Log out

My AccountEmployeesScheduleAccountsStock

Name	Cost Price	Sell price	Department
Name 1	1	2	Electronics
Name 1	1	2	Electronics
Name 1	1	2	Electronics
Name 1	1	2	Electronics
Name 1	1	2	Electronics
Name 1	1	2	Electronics

Add

Update

Remove

Request

14) US-A-14: Administrator adds product to the system

Actors: Administrator

Requirement(s): **FR-A-15**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on “*Products*” tab.
2. Administrator clicks on “Add product” button
3. Administrator fills in necessary fields
4. Administrator clicks on “Add” button
5. System notifies user that a product was successfully added

Extensions:

5.1. Field is empty

1. Notify user
2. Back to step 3 of MSS

5.2. Field is in wrong format

1. Notify user
2. Back to step 3 of MSS

Name

Cost price

Selling price

Size

Department

Restock threshold

15) US-A-15: Administrator modifies product's name*

Actors: Administrator

Requirement(s): **FR-A-16 to FR-A-20**

Pre-condition: Administrator logged in successfully

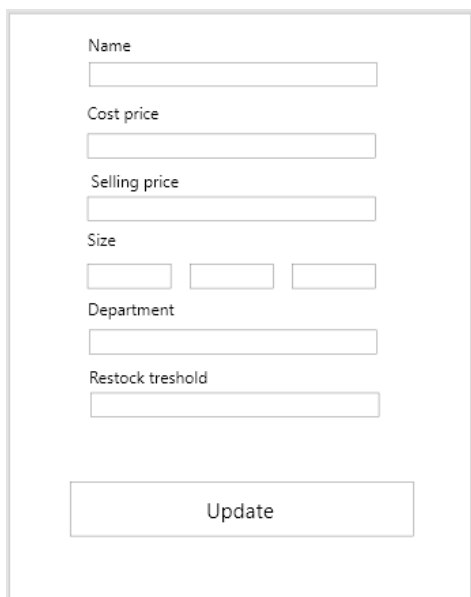
Main Success Scenario:

1. Administrator clicks on “*Products*” tab
2. Administrator clicks on a product
3. Administrator clicks on “*Update*” button
4. Administrator changes the necessary field
5. Administrator clicks on the “*Save*” button

Extensions:

- 5.1. Field is in in correct format
 1. Notify user
 2. Back to step 4 of MSS
- 5.2. Field is empty
 1. Notify user
 2. Back to step 4 of MSS

***same use-case applies for product's cost price, selling price, size dimensions, department**

A screenshot of a web form for updating product information. The form is enclosed in a light gray border. It contains several input fields: 'Name' (a single text box), 'Cost price' (a single text box), 'Selling price' (a single text box), 'Size' (three separate text boxes), 'Department' (a single text box), and 'Restock treshold' (a single text box). At the bottom of the form is a large rectangular button labeled 'Update'.

16) US-A-16: Administrator modifies product's restock threshold

Actors: Manager

Requirement(s): **FR-A-21**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on “*Products*” tab
2. Administrator clicks on a product
3. Administrator clicks on “*Update*” button
4. Administrator changes the necessary field

5. Administrator clicks on the “Save” button

Extensions:

4.1. Field is in in correct format

1. Notify user
2. Back to step 4 of MSS

4.2. Field is empty

1. Notify user
2. Back to step 4 of MSS

The image shows a web form for updating product information. The fields are arranged vertically: 'Name', 'Cost price', 'Selling price', 'Size' (which has three adjacent input boxes), 'Department', and 'Restock threshold'. The 'Restock threshold' field is highlighted with a red border. Below these fields is a large 'Update' button.

17) US-A-17: Administrator deletes product from system

Actors: Manager

Requirement(s): **FR-A-22**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on “*Products*” tab
2. Administrator clicks on a particular product
3. Administrator clicks on “*Delete*” button and confirms choice
4. System notifies user that the product was deleted successfully

The screenshot shows a web application with a navigation bar at the top containing 'My Account', 'Employees', 'Schedule', 'Accounts', and 'Stock'. The 'Stock' tab is selected. Below the navigation bar is a table with the following columns: 'Name', 'Cost Price', 'Sell price', and 'Department'. The table contains five rows of data, all with 'Name 1' and 'Electronics' in the first and fourth columns, and '1' and '2' in the second and third columns. To the right of the table are four buttons: 'Add', 'Update', 'Remove', and 'Request'. A blue arrow points to the 'Remove' button. In the top right corner of the application area, there is a 'Log out' button.

Name	Cost Price	Sell price	Department
Name 1	1	2	Electronics
Name 1	1	2	Electronics
Name 1	1	2	Electronics
Name 1	1	2	Electronics
Name 1	1	2	Electronics

18) US-A-18: Administrator sends a stock request (product and amount)

Actors: Manager

Requirement(s): **FR-A-23**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on "Stock" tab
2. Administrator clicks on "Request" button
3. Administrator inputs product and amount
4. Administrator clicks on "Request" button

Extensions:

- 4.1. Field is in in correct format
 1. Notify user
 2. Back to step 3 of MSS
- 4.2. Field is empty
 1. Notify user
 2. Back to step 3 of MSS

The screenshot shows a form with a label 'Amount' above a text input field. Below the input field is a large button labeled 'Request'.

19) US-D-01: Depot worker logs in

Actors: Depot worker

Requirement(s): **FR-D-01**

Pre-condition: System is running

Main Success Scenario:

1. User inputs username and password
2. User clicks on “Login” button
3. System redirects user to Home page

Extensions:

- 2.1. Username or password is incorrect
 1. Notify user
 2. Back to step 1 of MSS
- 2.2. Field is empty
 1. Notify user
 2. Back to step 1 of MSS

A login form titled "Media Bazaar". It contains two input fields: "First name" and "Last name", each with a text box below it. At the bottom, there is a "Log in" button.

Media Bazaar

First name

Last name

Log in

20) US-D-02: Depot worker logs out

Actors: Depot worker

Requirement(s): **FR-D-02**

Pre-condition: Depot worker logged in successfully

Main Success Scenario:

1. Depot worker clicks on “Log out” button
2. System redirects user to Login window

Restock requests

ID	Product	Date	Ammount
1	Product 1	2021.01.01	1
2	Product 1	2021.01.01	2
3	Product 1	2021.01.01	3
4	Product 1	2021.01.01	4
5	Product 1	2021.01.01	5

Accept

Reject

Log out

21) **US-D-03: Depot worker views list of restock requests**

Actors: Depot worker

Requirement(s): **FR-D-03**

Pre-condition: Depot worker logged in successfully

Main Success Scenario:

1. Depot worker is redirected to Home page with restock requests after login
2. Depot worker is presented the list of current restock requests

Restock requests

ID	Product	Date	Ammount
1	Product 1	2021.01.01	1
2	Product 1	2021.01.01	2
3	Product 1	2021.01.01	3
4	Product 1	2021.01.01	4
5	Product 1	2021.01.01	5

Accept

Reject

Log out

22) **US-D-04: Depot worker accepts restock request**

Actors: Depot worker

Requirement(s): **FR-D-04**

Pre-condition: Depot worker logged in successfully

Main Success Scenario:

1. Depot worker is redirected to Home page with restock requests after login
2. Depot worker is presented the list of current restock requests
3. Depot worker clicks on the "Accept" button next to the chosen restock request

Restock requests

ID	Product	Date	Amount
1	Product 1	2021.01.01	1
2	Product 1	2021.01.01	2
3	Product 1	2021.01.01	3
4	Product 1	2021.01.01	4
5	Product 1	2021.01.01	5

Accept

Reject

Log out

23) **US-D-05: Depot worker rejects restock request**

Actors: Depot Worker

Requirement(s): **FR-D-05**

Pre-condition: Depot worker logged in successfully

Main Success Scenario:

1. Depot worker is redirected to Home page with restock requests after login
2. Depot worker is presented the list of current restock requests
3. Depot worker clicks on the “*Reject*” button next to restock request

Restock requests

ID	Product	Date	Amount
1	Product 1	2021.01.01	1
2	Product 1	2021.01.01	2
3	Product 1	2021.01.01	3
4	Product 1	2021.01.01	4
5	Product 1	2021.01.01	5

Accept

Reject

Log out

24) **US-D-06: User sends restock request to depot worker**

Actors: User as Manager (or another non-depot worker)

Requirement(s): **FR-D-05**

Pre-condition: User logged in successfully

Main Success Scenario:

1. User is redirected to Home page with restock requests after login
2. User is presented with list of products they can request to be restocked.
3. User clicks on the “Restock” button next to chosen product.

25) US-M-01: Manager views the statistical information

Actors: Manager

Requirement(s): **FR-M-07**

Pre-condition: Manager logged in successfully

Main Success Scenario:

1. Manager clicks on “Statistics”.
2. Manager chooses the indicator from the list.
3. Manager clicks on view.
4. Separate form representing a certain indicator is opened.

The image displays two screenshots of a web application interface. The top screenshot shows a navigation menu with four tabs: 'My Account', 'Employees', 'Calendar', and 'Statistics'. The 'Statistics' tab is selected. Below the menu, there is a section titled 'List of indicator' containing a table with one row labeled 'Indicator 1'. To the right of this table is a 'View' button. The bottom screenshot shows a modal window with the title 'Name of indicator'. Inside the modal, there is a large rectangular box containing the text 'Some numbers or graph'. At the bottom of the modal is a 'Close' button.

26) US-A-25: User views list of departments

Actors: User as Administrator

Requirement(s): **FR-A-25**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Manager clicks on “*Departments*”.
2. System displays list of departments

27) US-A-26: User adds new department

Actors: User as Administrator

Requirement(s): **FR-A-26**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on “*Departments*” tab.
2. Administrator clicks on “*Add Department*” button.
3. Administrator fills in the necessary fields.
4. Administrator clicks on the “*Add*” button.
5. System notifies User that the department was added successfully

Extensions:

- 5.1. Fields were in incorrect format
 1. Notify user
 2. Back to step 3 of MSS
- 5.2. Field is empty
 1. Notify user
 2. Back to step 3 of MSS

28) US-A-27: User modifies department's name

Actors: User as Administrator

Requirement(s): **FR-A-27**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on “*Departments*” tab.
2. Administrator chooses a particular department from the list and clicks on it.
3. Administrator clicks on “*Edit*” button.
4. Administrator input new name in appropriate field.
5. Administrator clicks on “*Save*”
6. System notifies the User the change was successful

Extensions:

- 6.1. Fields was in incorrect format
 1. Notify user
 2. Back to step 4 of MSS
- 6.2. Field is empty
 1. Notify user

2. Back to step 4 of MSS

29) US-A-28: Administrator changes department's manager

Actors: User as Administrator

Requirement(s): **FR-A-28**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on "*Departments*" tab.
2. Administrator chooses a particular department from the list and clicks on it.
3. Administrator clicks on "*Change manager*".
4. Administrator assigns new manager from available list of employees
5. System notifies User the change was successful.

30) US-A-29: Administrator removes department

Actors: User as Administrator

Requirement(s): **FR-A-29**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on "*Departments*" tab.
2. Administrator chooses a particular department from the list and clicks on it.
3. Administrator clicks on the "*Delete*" button
4. System notifies User the department was deleted successfully

31) US-A-30: User uses auto-scheduler

Actors: User as Administrator

Requirement(s): **FR-A-30**

Pre-condition: Administrator logged in successfully

Main Success Scenario:

1. Administrator clicks on "*Calendar*" tab.
2. Administrator clicks on "*Auto-schedule*" button.
3. System notifies User that schedule was complete successfully

32) US-M-07: Manager views statistical information about employee attendance

Actors: User as Manager

Requirement(s): **FR-M-07**

Pre-condition: Manager logged in successfully

Main Success Scenario:

1. Manager clicks on "*Statistics*" tab.
2. Manager chooses the indicator from the list.
3. Manager clicks on view.
4. Separate form representing a certain indicator is opened.

33) US-M-08: Manager views statistical information about employee attendance per department

Actors: User as Manager

Requirement(s): **FR-M-08**

Pre-condition: Manager logged in successfully

Main Success Scenario:

1. Manager clicks on “Statistics” tab.
2. Manager clicks on “Employees” tab
3. Manager clicks on “Display”.
4. Window updates with appropriate data

34) US-M-07: Manager views statistical information for employee attendance

Actors: User as Manager

Requirement(s): **FR-M-07**

Pre-condition: Manager logged in successfully

Main Success Scenario:

1. Manager clicks on “Statistics” tab.
2. Manager clicks on “Employees” tab
3. Manager clicks on chooses department and clicks on “Display”.
4. Window updates with appropriate data

35) US-W-09: Employee checks-in for certain shift

Actors: User as Employee

Requirement(s): **FR-E-14**

Pre-condition: Employee logged in successfully (website)

Main Success Scenario:

1. Employee clicks on “Check-in/Check-out” button.
2. Employee chooses their current shift
3. Employee clicks on “Check-in”.
4. System notifies User check-in was successful

36) US-W-09: Employee checks-out for certain shift

Actors: User as Employee

Requirement(s): **FR-E-15**

Pre-condition: Employee logged in successfully (website)

Main Success Scenario:

1. Employee clicks on “Check-in/Check-out” button.
2. Employee chooses their current shift
3. Employee clicks on “Check-out”.
4. System notifies User check-out was successful

*Please note: Use cases for manager’s side functional requirements **FR-M-01 - FR-M-06** repeat use cases for administrator side functional requirements. Hence, we made this table:*

<i>Functional requirement</i>	<i>Use case</i>
<i>FR-M-01</i>	<i>US-A-01</i>
<i>FR-M-02</i>	<i>US-A-02</i>
<i>FR-M-03</i>	<i>US-A-03</i>
<i>FR-M-04</i>	<i>US-A-04</i>
<i>FR-M-05</i>	<i>US-A-05</i>
<i>FR-M-06</i>	<i>US-A-08</i>

Use cases – Website

37) US-W-01: Employee logs in

Actors: Employee

Requirement(s): **FR-E-01**

Main Success Scenario:

1. Employee is on login page
2. Employee inputs their username and password
3. Employee clicks the “Login” button
4. Employee is notified that they logged in successfully
5. Employee is redirected to home page

Extension:

1. Field is empty
 - a. Notify user.
2. Login is incorrect
 - a. Notify user.
3. Password is incorrect
 - a. Notify user.
4. Employee logs in first time
 - a. Show window to change password (mandatory).

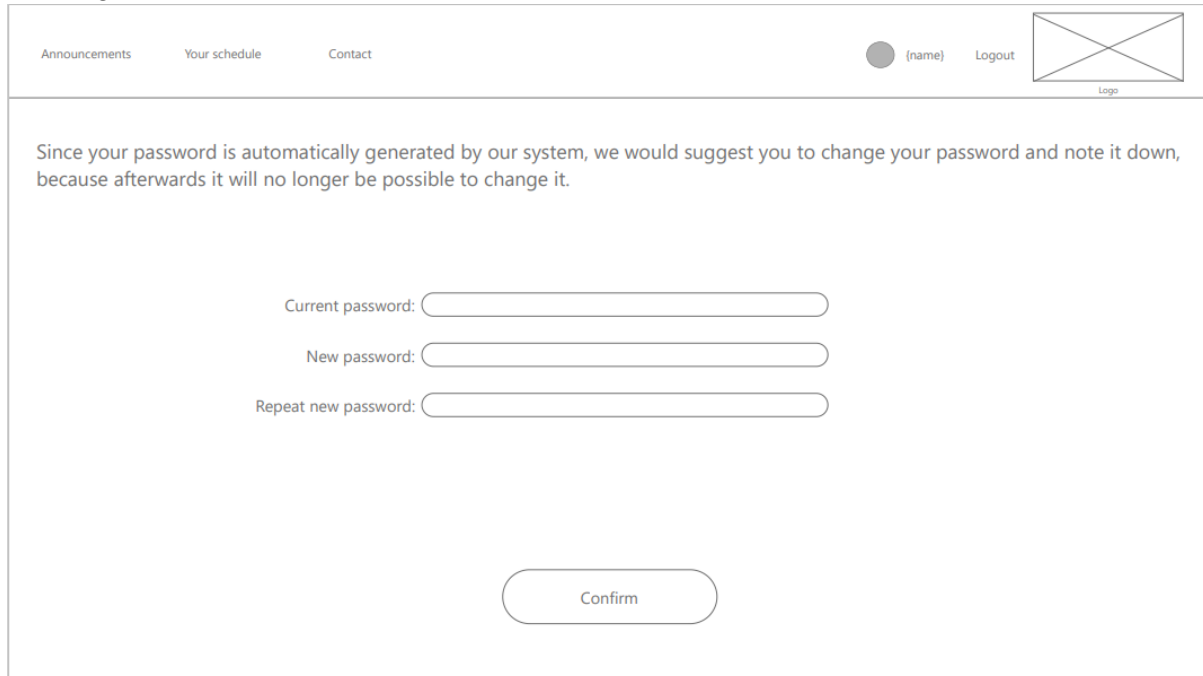
Logo

Username:

Password:

Login

First login:



Announcements Your schedule Contact (name) Logout Logo

Since your password is automatically generated by our system, we would suggest you to change your password and note it down, because afterwards it will no longer be possible to change it.

Current password:

New password:

Repeat new password:

Confirm

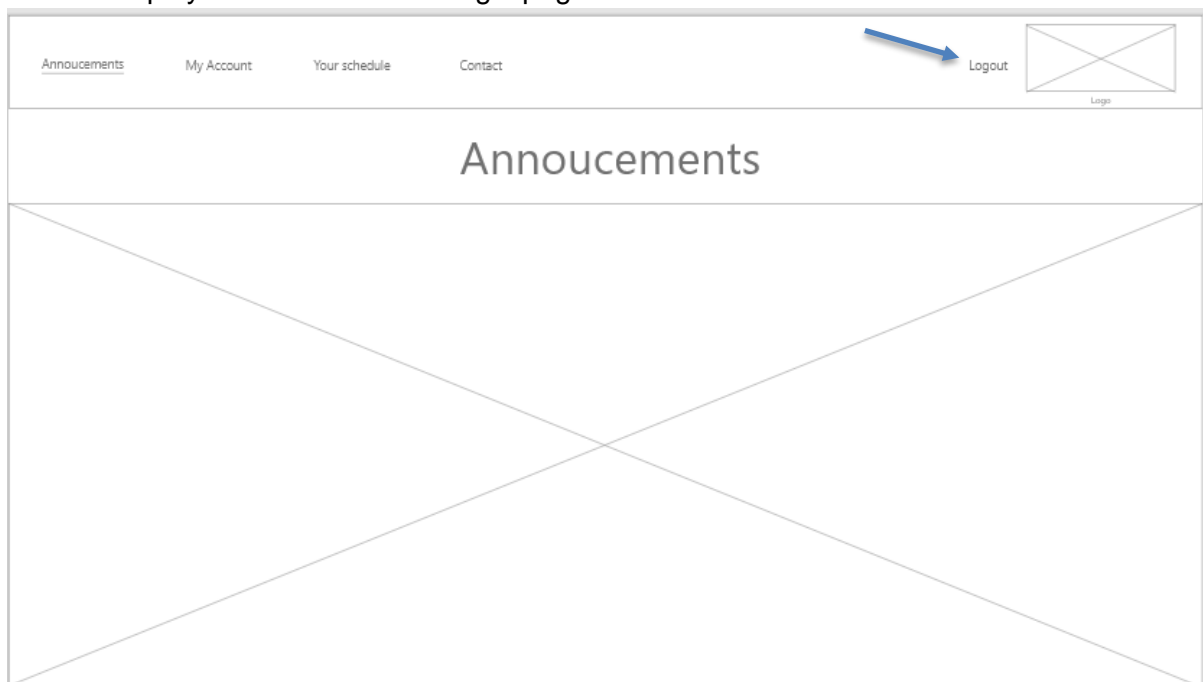
38) US-W-02: Employee logs out

Actors: Employee

Requirement(s): **FR-E-02**

Main Success Scenario:

1. Employee clicks on “Log out” button
2. Employee is redirected to Login page



Announcements My Account Your schedule Contact Logout Logo

Announcements

Logo

39) US-W-03: Employee changes password

Actors: Employee


Requirement(s): **FR-E-03**

Main Success Scenario:

1. Employee clicks on “My Account” button
2. Employee inserts current password
3. Employee inserts new password
4. Employee repeats new password
5. Employee clicks on the “Change password” button
6. System displays message that password was successfully changed

Extension:

1. Field is empty
 - a. Notify user.
2. Current password is wrong
 - a. Notify user.
3. New password and repeat password fields do not match
 - a. Notify user.

Announcements My Account Your schedule Contact Logout 

Logo

● Welcome, {name}!

First Name

Family Name

Street

Email

Date of birth

Username

Password

Repeat Password

Account number

Days preference

Please mention in those textboxes which days you cannot work

Night shifts ☐ Yes ☐ No

Confirm

40) US-W-04: Employee changes personal details

Actors: Employee

Requirement(s): **FR-E-04**

Main Success Scenario:

1. Employee clicks on “My account” button
2. Employee clicks on “Edit” button
3. Employee changes whichever fields they would like to change
4. Employee clicks on the “Save” button
5. Employee is notified they successfully updated their data

Extension:

1. Field is empty
 - a. Notify user.
2. Field is not in correct format
 - a. Notify user.

Announcements My Account Your schedule Contact Logout

Welcome, {name}!

First Name

Family Name

Street

Email

Date of birth

Username

Password

Repeat Password

Account number

Days preference
Please contribute to those businesses which days you cannot work

Night shifts ☐ Yes ☐ No

Confirm


41) US-W-05: Employee views schedule

Actors: Employee

Requirement(s): **FR-E-05**

Main Success Scenario:

1. Employee clicks on the “Schedule” button
2. Employee is shown their schedule for this week

Announcements My Account <u>Your schedule</u> Contact Logout 							
<div>Previous week</div> <div>Your schedule</div> <div>2021, April</div> <div>Next week</div>							
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Morning	Shift				Shift		
Afternoon			Shift				
Night						Shift	

42) US-W-06: Employee sets a preference on schedule

Actors: Employee

Requirement(s): **FR-E-06**

Main Success Scenario:

1. Employee clicks on "Schedule" button
2. Employee clicks on "Preferences" button
3. Employee picks up to two days during which they cannot work or if they are unavailable for night shifts
4. Employee clicks on the "Save" button

Extension:

1. Employee picks more than two days
 - a. Notify user.

The screenshot shows a user profile page with a navigation bar at the top containing links for 'Announcements', 'My Account', 'Your schedule', and 'Contact'. A 'Logout' button and a placeholder for a logo are also present. The main content area features a 'Welcome, {name}!' message. Below this, there are input fields for 'First Name', 'Family Name', 'Street', 'Email', 'Date of birth' (with dropdowns for YYYY, MM, and DD), 'Username', 'Password', 'Repeat Password', and 'Account number'. A red box highlights the 'Days preference' section, which includes a dropdown menu with a checkmark icon and a note: 'Please mention in those sections which days you cannot work'. Below this, there is a 'Night shifts' section with two radio buttons labeled 'Yes' and 'No'.

43) US-W-07: Employee sends message to administrator

Actors: Employee


Requirement(s): **FR-E-07**

Main Success Scenario:

1. Employee clicks on “Contact Administrator” button
2. Employee inputs their message
3. Employee chooses their administrator
4. Employee clicks on the “Send” button

Extension:

1. Field is empty
 - a. Notify user.
2. No administrator chosen
 - a. Notify user.

Home My Account Your schedule Contact Logout 

Contact

Write your message...

Send

44) US-W-08: Employee views announcements

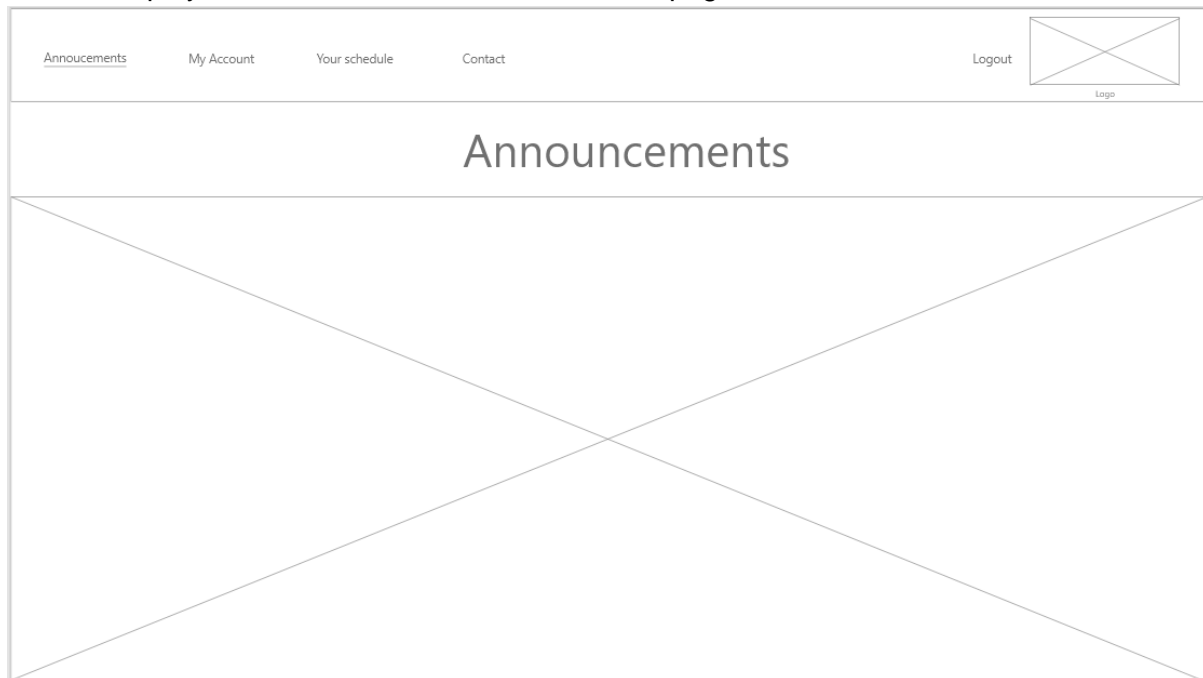
Actors: Employee

Requirement(s): **FR-E-08**

Pre-condition: Manager has proper credentials

Main Success Scenario:

1. Employee clicks on “Announcements” button
2. Employee is redirected to Announcement’s page and shown recent announcements



45) US-WM-01: Manager logs in

Actors: Manager

Requirement(s): **FR-WM-01**

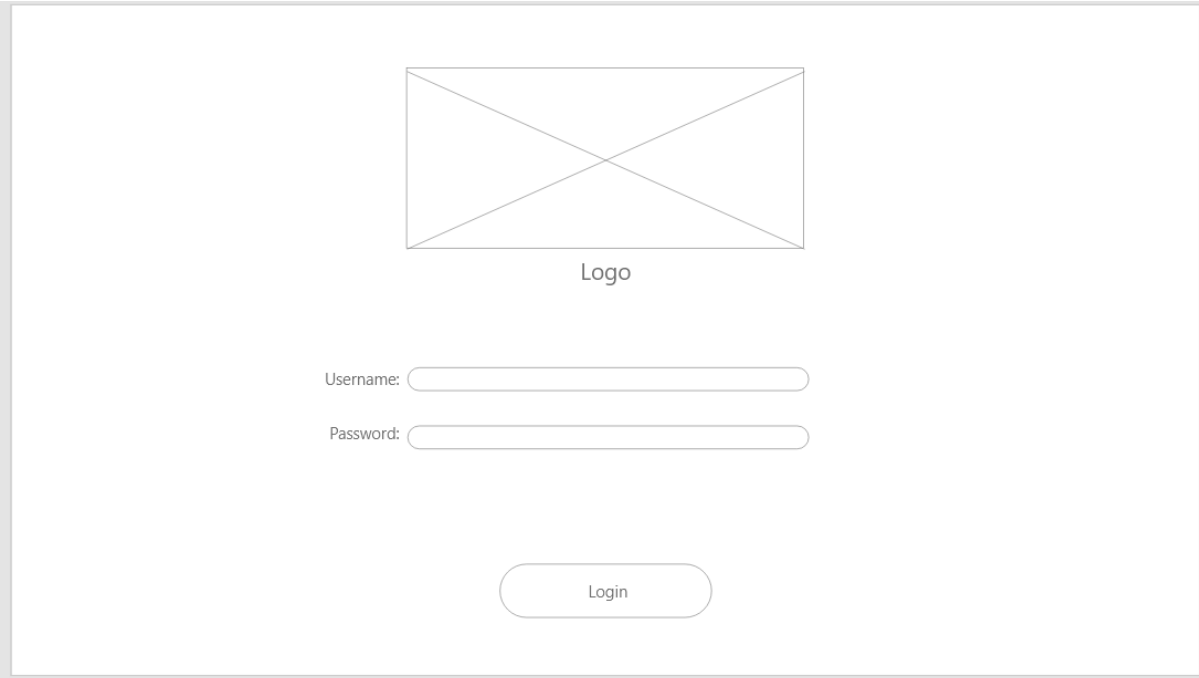
Pre-condition: User logged in successfully

Main Success Scenario:

1. Manager is on login page
2. Manager inputs their username and password
3. Manager clicks the “Login” button
4. Manager is notified that they logged in successfully
5. Manager is redirected to home page

Extension:

1. Field is empty
 - a. Notify user.
2. Login is incorrect
 - a. Notify user.
3. Password is incorrect
 - a. Notify user.



46) US-WM-01: Manager logs out

Actors: Manager

Requirement(s): **FR-WM-01**

Pre-condition: User logged in successfully

Main Success Scenario:

1. Manager clicks on “Logout” button
2. Manager is redirected to Login page

The screenshot shows a web interface with a top navigation bar. On the left, there is a 'Statistics' link. On the right, there is a 'Logout' button with a blue arrow pointing to it, and a placeholder for a logo. Below the navigation bar, there is a main content area with a table. The table has three columns: 'Date', 'Start date', and 'End date'. Under the 'Date' column, there are two rows labeled 'Indicator 1' and 'Indicator 2'. Under the 'Start date' column, there are two rows labeled 'Indicator 3' and 'Indicator 4'. Under the 'End date' column, there is one row labeled 'Indicator 5'.

47) US-WM-01 : Manager views statistical information

Actors: Manager

Requirement(s): **FR-WM-01**

Main Success Scenario:

1. Manager clicks on “Statistics” button
2. Manager is redirected to Statistics page
3. Manager inputs dates
4. Indicators are shown.

The screenshot shows a web interface with a top navigation bar. On the left, there is a 'Statistics' link. On the right, there is a user profile icon with the text '(name)', a 'Logout' button, and a placeholder for a logo. Below the navigation bar, there is a main content area with a table. The table has three columns: 'Date', 'Start date', and 'End date'. Under the 'Date' column, there are three rows labeled 'Total employees:', 'Total salary paid:', and 'Totaly hours worked:'. Under the 'Start date' column, there are three rows labeled 'Average employees per shift for period:', 'Total salary paid to employees for period:', and 'Average hourly wage for period:'. Under the 'End date' column, there is one row labeled 'Total hours worked by employees:'.

Mobile wireframes

Mobile wireframes with all the other ones can be found in our git repository via this link.

<https://git.fhict.nl/I454066/prj-cb07-group1/-/blob/master/Documentation/WebsiteMediaBazaar.pdf>

Appendix A

Here you may find the information concerning Media Bazaar employees that will be stored in the system.

1. First name
2. Family name
3. Address (street, street number, zip code, town, country)
4. E-mail address
5. Username
6. Password
7. Date of birth
8. Date of first working day
9. Hourly wage
10. Account number
11. Department(s)
12. Role
13. Photo
14. Kind of employee
 - a. Fixed term contract
 - i. 32 working hours a week
 - ii. 40 working hours a week
 - b. Availability for shifts
(Employee may indicate up to two(2) days as unavailable.)
 - i. Availability for nightshifts.

Appendix B

Here you may find the which records can and which cannot be changed.

Legenda:

Green – Can be changed by employee.

Blue – Can be changed by administrator.

Red – Cannot be changed at all.

1. First name
2. Family name
3. Address (street, street number, zip code, town, country)
4. E-mail address
5. Username
6. Password
7. Date of birth
8. Date of first working day
9. Hourly wage
10. Account number
11. Department(s)
12. Role
13. Photo
14. Kind of employee
 - a. Fixed term contract
 - i. 32 working hours a week
 - ii. 40 working hours a week
 - b. Availability for shifts
 - i. Employee may indicate up to two (2) days of week as unavailable.
 - ii. Availability for nightshifts.

Appendix C

Here you may find the information concerning Media Bazaar products that will be stored in the system.

1. Name
2. Cost price
3. Selling price
4. Size
 - a. Height.
 - b. Width.
 - c. Length.
 - d. Weight.
5. Department.
6. Restock threshold.

Revision table

v1.1: 11/04 Bohdan – Updated user requirements, table of contents, added updated wireframes to use cases and minor changes.

v1.2: 17/04 Andreea – Updated functional requirements based on tutor's feedback.

v1.3: 25/04 Bohdan – Add functional requirements for Iteration II. Added "Appendix C". Updated table of contents.

v1.4: 26/04 Stelian – Add use cases for functional requirements for Iteration II.

v1.5: 06/05 Stelian and Andreea – Update and edit based on tutor and client feedback

v1.6: 06/05 Stelian and Bohdan – Update functional requirements and use cases for Iteration III