

MediaBazaarSolution

User Requirement Specification



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Agreements with the client

- A web portal for employees to access and edit their data
- A desktop application:
 1. for administrators to manage employees
 2. for depot workers to manage and report changes in stock of items
 3. for all employees to view and edit their shifts
- A secure database to store all relevant information

Functional Requirements

Summary of Functions

Media Bazaar(owned by Jupiter) requires a technological solution for the administration system that will greatly facilitate the management processes related to the company's expansion into the Eindhoven electronics retail market. In order to achieve this goal the following primary functions include:

- User Accounts
- CRUD functionalities
- Data Accessibility
- Entity Profile Administration
- Media Bazaar Administration Panel
- Data logging
- Online portal for depot workers
- Stock monitoring interface
- Data Integrity
- Authentication & authorization

As for the accomplishment of the above articulated needs, Media Bazaar requires an administration system in the form of a desktop application and a website portal for the depot workers. Those two components of the software solution include the following base functionality:

Functional Requirements: Administration Application

Requirement ID	Requirement Statement	MoSCoW	Comments
FR-01	Managers and administrators shall be able to login securely onto the system.	Must	Encryption of passwords will be implemented.
FR-02	Regular managers shall have access to the employee list.	Must	
FR-03	Regular managers shall be able to see employee's records.	Must	Employee's record consists of actual hours worked, type of contract, availability etc.
FR-04	It shall be possible for regular managers and administrators to plan the shifts of employees.	Must	There are three work shifts: Morning, Afternoon and Evening.
FR-05	Middle managers shall be provided with a stock monitoring interface.	Must	The interface has a stock overview of products in different categories.
FR-06	In the event of low quantity of a product regular managers shall be able to make orders to suppliers.	Must	
FR-07	Aggregation of data/statistics shall be accessible to regular managers	Should	Statistics show: availability, hours worked, hourly wage, tenure etc. per employee
FR-08	Regular managers shall see individual departments and employees assigned there.	Could	Existing departments include: Customer Service, Domestic appliances etc.

FR-09	Administrator shall be provided with a table view of the hired employees.	Must	The table data includes: ID,First name, Last name,type of work, type of contract, hourly wage etc.
FR-10	Administrator shall be able to add new employees when they are hired.	Must	Worker's personal information is added to the database.
FR-11	It shall be possible for the system administrator to delete employees when fired.	Must	Employees' data is deleted from the database.
FR-12	Modification of personal data by the administrator shall be possible.	Must	Continuous edit of address, phone, department etc. of an employee in the database.
FR-13	Administrator shall be able to filter through employees based on the criterion entered in the search bar.	Must	
FR-14	Administrator shall have the ability to move people to other departments.	Could	
FR-15	Administrator shall have a depot overview so they can keep track of the stock for particular items.	Must	
FR-15	Administrator shall be able to add new types of products to be sold.	Must	Information such as supplier, type, description of product etc. is added to the database.
FR-16	Removal of products from the store shall be provided for the administrator	Must	A product is no longer sold, so it is removed from the store.
FR-17	Product data modification shall be possible for the administrator.	Must	Supplier, description etc. is changed about the item.

FR-18	Administrator shall be able to change the price of any product.	Must	
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Functional Requirements: Employee Online Portal

Requirement ID	Requirement Statement	MoSCoW	Comments
FR-19	Employees shall be able to check into the system.	Must	Login page where users type username and password.
FR-20	In case employees have forgotten their password the system shall provide them a way to recover it.	Could	Provide a password recovery link.
FR-21	Employees shall have the ability to check out of the system.	Must	Logout button will be implemented for that functionality.
FR-22	Depot workers shall have access to a dashboard showing their personal information.	Must	Personal data such as shifts, hourly wage etc.
FR-23	Employees shall be able to see only their shifts during the work days.	Must	
FR-24	In the event of data modification employees shall be able to change information through the online interface.	Must	
FR-25	Managers shall be able to flag employees who have changed their data.	Should	
FR-26	Employees shall have the option to filter products based on the entered criterion in the search bar.	Could	They shall be able to filter by ID, supplier, category etc.

Use Cases

Case	Actor	Preconditions	Usual Procedure	Edge cases
01 - Logging in	Any employee		01.1 - The user inputs their username and password 01.2 - The system checks if the username and password are correct and logs the user in	01.2a - The information is incorrect. Show message that info is incorrect → return to 01.1 01.2b - Some fields are not filled in. Show error message → return to 01.1
02 - Planning	Admin/Manager	Must be logged in	02.1 - The user goes to the schedule tab 02.2 - The user selects a workslot 02.3 - The user selects an employee 02.4 - The user confirms and the system saves the data	02.3a - The employee was not available at that time. The user will have to select a new employee → 02.3
03 - Data Overlook	Admin/Manager	Must be logged in	03.1 - The user selects the statistics page 03.2 - The user selects the employee tab or the products tab 03.3 - The user selects an employee or products 03.4 - The system shows the data of the employee/produ	

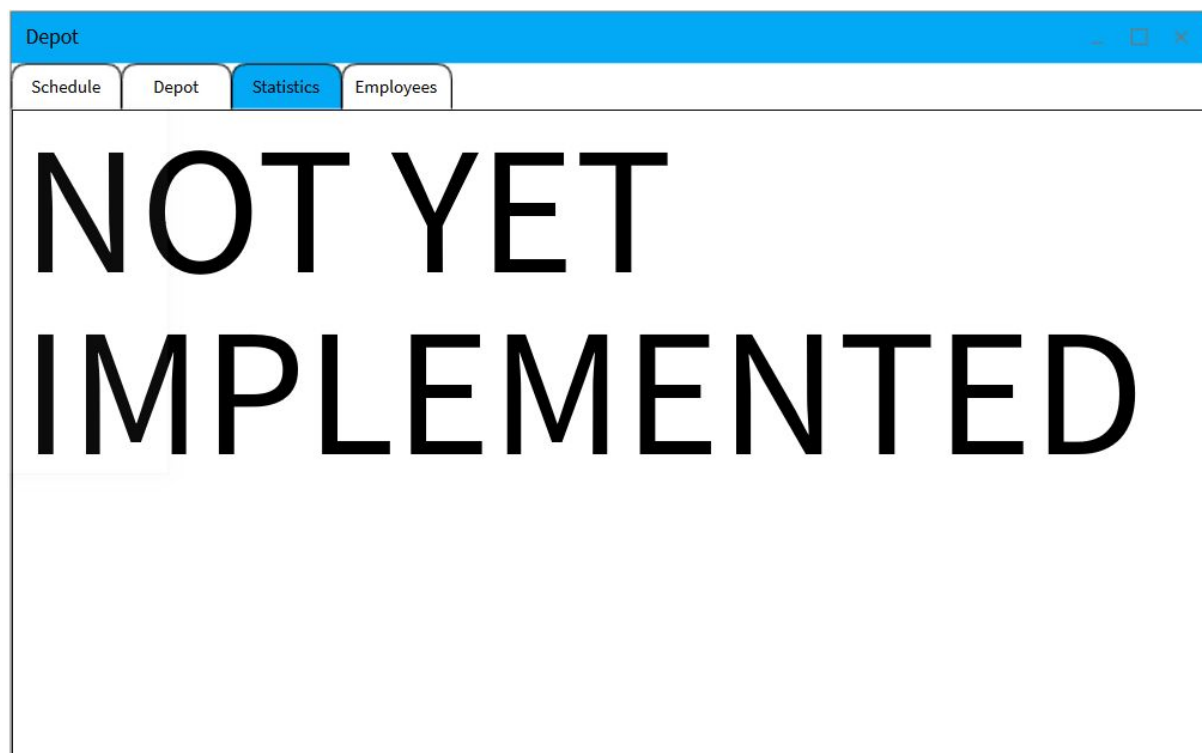
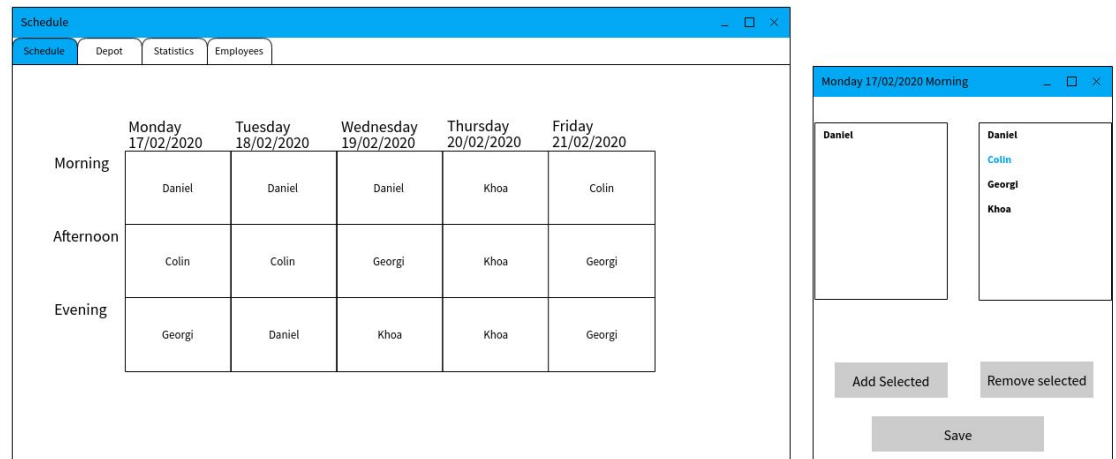
			ct	
04 - Restock	Admin/Manager	Must be logged in	<p>04.1 - The user selects the depot page</p> <p>04.2 - The user selects the product</p> <p>04.3 - The user selects the amount of products needed to restock</p> <p>04.4 - The system places an order at the supplier</p>	04.3a - The amount is not a valid number. An error message will be shown → 04.3
05 - Adding employees	Admin/Manager	Must be logged in	<p>05.1 - The user goes to the employees tab</p> <p>05.2 - The user selects "add employee"</p> <p>05.3 - The user fills in all the required data</p> <p>05.4 - The user presses save and the system adds the new employee to the database</p>	<p>05.3a - Not all data filled in. An error message is shown → 05.3.</p> <p>05.3b - Data is not correctly filled in (wrong format). An error message is shown → 05.3.</p>
06 - Removing employees	Admin/Manager	Must be logged in	<p>06.1 - The user goes to the employees tab.</p> <p>06.2 - The user selects an employee.</p> <p>06.3 - The user goes to delete the employee.</p> <p>06.4 - The system shows a confirmation message.</p> <p>06.5 - The employee gets deleted from the</p>	

			system.	
07 - Changing employee data	Admin/Manager	Must be logged in	<p>07.1 The user goes to the employees tab.</p> <p>07.2 The user selects an employee.</p> <p>07.3 The user selects change data.</p> <p>07.4 The user changes the data.</p> <p>07.5 The user selects save.</p> <p>07.6 The system saves the changes.</p>	<p>07.4a - Not all data filled in. An error message is shown → 07.4.</p> <p>07.4b - Data is not correctly filled in (wrong format). An error message is shown → 07.4.</p>
08 - Adding products	Admin/Manager	Must be logged in	<p>08.1 - The user goes to the depot tab.</p> <p>08.2 - The user selects "add new product".</p> <p>08.3 - The user fills in the information of the new product.</p> <p>08.4 - The user selects save.</p> <p>08.5 - The system saves the new products and adds it to the depot.</p>	<p>08.3a - Not all data filled in. An error message is shown → 08.3.</p> <p>08.3b - Data is not correctly filled in (wrong format). An error message is shown → 08.3.</p>
09 - Removing products	Admin/Manager	Must be logged in	<p>09.1 The user goes to the depot tab.</p> <p>09.2 - The user selects a product.</p> <p>09.3 - The user selects "remove product".</p> <p>09.4 - The user confirms their</p>	<p>09.2a - The product searched is not existent → 09.1</p>

			decision. 09.5 - The system removes the product from the database.	
10 - Changing products	Admin/Manager	Must be logged in	10.1 - The user goes to the depot tab. 10.2 - The user selects a product. 10.3 - The user selects "change product". 10.4 - The user fills in the new information. 10.5 - The user saves and the system saves the data.	10.4a - Not all data filled in. An error message is shown → 10.4. 10.4b - Data is not correctly filled in (wrong format). An error message is shown → 10.4.
11 - Adding sales	Admin/Manager	Must be logged in	11.1 - The user goes to the depot tab. 11.2 - The user selects multiple products using the selection boxes 11.3 - The user selects the amount of sale 11.4 - The user presses the "Add sale" button 11.5 - The system updates the price temporarily	11.2a - No product is selected. An error message is shown → 11.2. 11.3a - No sale amount is selected. An error message is shown → 11.3.

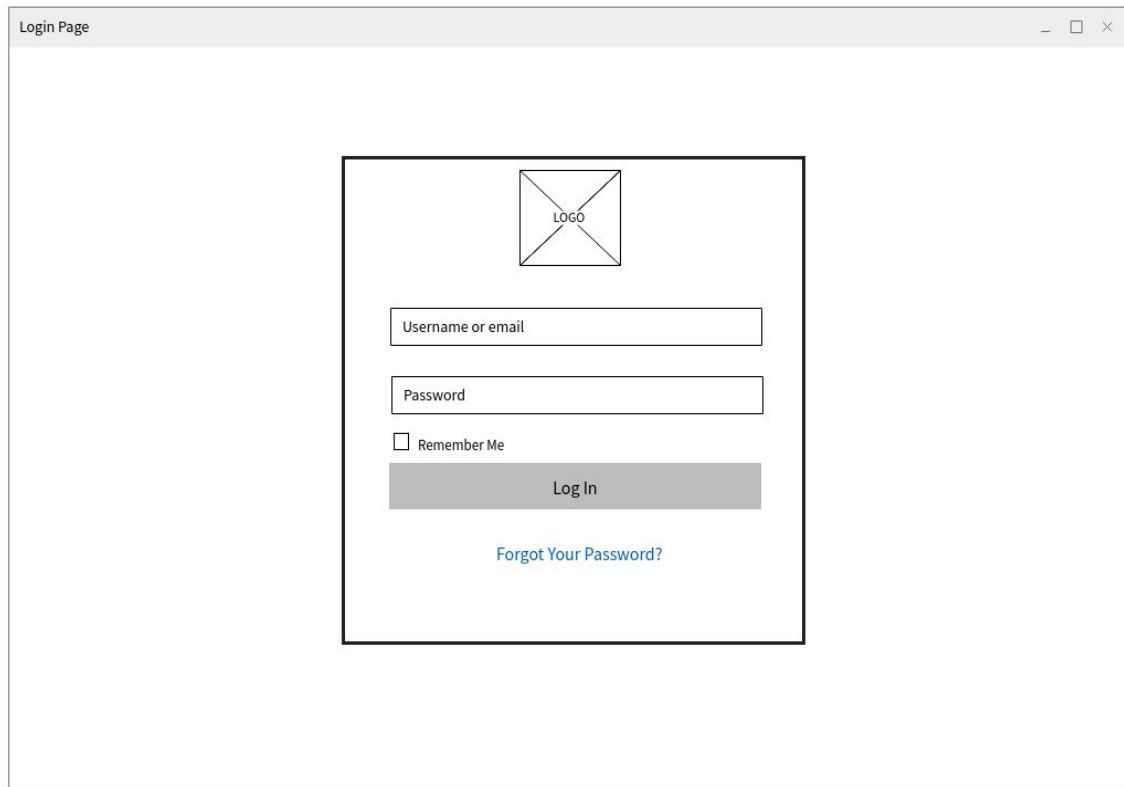
- GUI

- Images of the various views.



- A brief description per view how it works

- Website Wireframe



The image shows a wireframe of a login page within a browser window. The window's title bar reads "Login Page" and includes standard minimize, maximize, and close buttons. The login form is centered and enclosed in a black rectangular border. At the top of the form is a square placeholder for a logo, labeled "LOGO" with a diagonal cross. Below the logo are two input fields: the first is labeled "Username or email" and the second is labeled "Password". Under the password field is a checkbox labeled "Remember Me". Below the checkbox is a grey rectangular button with the text "Log In". At the bottom of the form is a blue hyperlink that reads "Forgot Your Password?".

The login page will be the first page that pops up when the employees access the company website. Here the user can log in using the username and password provided by the company. Because the website is restricted to only the company employees so we decided not to include a register option. Additionally, we also provide account recovery using the link “Forgot Your Password?” in case they forget their password.

Schedule Page



Welcome To LogiK

Schedule

Item Stock

Personal Info

Sign Out

	Monday	Tuesday	Wednesday	Thursday	Friday
Morning	Jack			Jack	
Afternoon		Jack	Jack		
Evening	Jack			Jack	Jack

When the user has successfully logged into their account, the schedule page will also be a landing page. Here they can check the scheduling of his and only his shifts. The schedule is arranged into different week days by columns and different time in the day by rows.

Schedule Page

LOGO

Welcome To LogiK

Schedule

Item Stock

Personal Info

Sign Out

iPhone

Q

iPhone Xi

iPhoneX

iPhoneXS

iPhone 7

iPhone 6

Go

Item No.	Item Name	Quantity	Price (euro)	Supplier
217183	LG 4K TV	200	3500	LG
374983	Google Pixel 3 XL	1349	1200	Google
798233	Playstation 4	250	500	Sony Computer Entertainment
179282	iPhone XS	3000	3700	Apple Inc.
.....

In the Item Stock page, the user can see information about different items in the company. They can search products by name in the search bar and click the Go button to retrieve the information of the selected item. If the selected information is successfully retrieved, the table will be shortened to contain only rows related to that item.

Schedule Page

LOGO

Welcome To LogiK

ScheduleItem StockPersonal InfoSign Out

Upload Image

Request Info Change

ID: 475323

Jack Tom

First Name:

Jack

Last Name:

Tom

Email Address:

jacktom1234@mai

Phone:

+31 234832043

Location:

Eindhoven, Netherlands

- Initial Drawings

