Software Solution

Media Bazaar

URS Document

Location: Fontys R10 - Rachelsmolen 1, 5612 MA Eindhoven

Date: 22.06.2024

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Client: **Media Bazaar**

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Agreements with client

In order to create and deliver the most satisfactory solution for our client we agreed upon the following

- The desktop application must be designed to be used by department managers
- Weekly project updates and feedback sessions
- Meetings must not be longer than 30 minutes, because our client has a busy schedule.
- Send meeting invitations to the client at least 3 days before each meeting, which includes an agenda and a transcript of the last meeting.
- Theme colour of the application must be red.

User roles

The software solution will support different types of users, each with specific permissions and functions

1. HR Manager
2. Department manager
3. Employee

Functional requirements

ID	Name	Constraints
FR-01	Authentication	All users must authenticate themselves before accessing the system. Users also have the opportunity to change their password in case it was forgotten. All users can log out
FR-02	Manage employee shifts	The department managers of Media Bazaar should be able to create weekly schedules for all the employees of their department and apply shift changes. It should be also possible to automatically generate daily and weekly schedules per role and weekly and other long term schedules for whole department
FR-03	Manage employees	All department managers of Media Bazaar should be able to see all employees that are part of their department. The HR manager should be able to see all employees from all departments and also employees that are no longer working. The HR managers should be able to add new employees to the system, remove those who are no longer working from all the planning and rehire employees from the archive. Part of the abilities of this role is changing the wages of all
FR-04	Edit Personal Information	All users should be able to update their personal account information, both sensitive and non-sensitive
FR-06	Manage products	The product manager of Media Bazaar should be able to track all available products in the store. Part of the responsibilities of this position are to add new products, edit/update product's characteristics and delete products
FR-07	Edit product prices	The sales managers of Media Bazaar should be able to modify the prices of products
FR-08	Request products for the store	The sales representatives of Media Bazaar should be able to send a request for additional products from the depo
FR-09	Manage products in depot	The depot workers should be able to

		view all products in the depot, request stock from the depot manager and send replenishments to the store.
FR-10	Manage orders of products for the depo	The depot manager of Media Bazaar is able to answer requests from the depot workers by ordering new products for the depot from the suppliers. He is also able to view the order history and see the status of every order.
FR-11	Mark unavailability	The employees of Media Bazaar should be able to mark their unavailability, and mark availability if they change their mind.
FR-12	Track employee work time	The employees should be able to clock in at the beginning of their shift and clock out at the end while the system keeps track of their work time.
FR-13	Request a shift exchange	The employees should be able to see their schedule and request a shift exchange for any day they should be working
FR-14	Take over someone’s shift	The employees should be able to take over any available shift that they are shown.

Non-functional requirements

ID	Name	Constraints
NFR-01	Security	When authenticating, sensitive data must be hidden. The user password should be encrypted using an encryption algorithm
NFR-02	Usability	The application should be intuitive and user-friendly, requiring minimal training for all users

NFR-03	Scalability	The loaded amount of data must not affect the performance and responsiveness of the system
NFR-04	Compatibility	The web application should be accessible from all modern web browsers

Use Cases

Use Case: User Log-In for desktop application

ID: UC-001

Reference: FR-01

Actor: HR Manager and Department managers

Description: Actor enters personal credentials to access the system

Main Success Scenario:

1. Actor starts Media Bazaar desktop application
2. System loads the application, opens the log-in page and requests username and password
3. Actor enters the required by the system username and password and confirms
4. System validated credentials and allows actor to user it redirecting to the menu page

Extensions:

4A: One or more fields are left empty

1. System displays and error message that not all fields are filled
2. End of use case

4B: Non-existing user

1. System displays error message that provided credentials are incorrect
2. End of use case

Use Case: User Log-In for web application

ID: UC-002

Reference: FR-01

Actor: All users

Description: Actor enters personal credentials to access the system

Main Success Scenario:

1. Actor opens the URL link of Media Bazaar web application
2. System requests username and password
3. Actor enters the required by the system username and password and confirms
4. System validates credentials and allows actor to use it redirecting to the menu page

Extensions:

4A: One or more fields are left empty

1. System displays and error message that not all fields are filled
2. End of use case

4B: Non-existing user

1. System displays error message that provided credentials are incorrect
2. End of use case

4C: It is the first time actor logs in to the web application

1. System requires password to be updated with a new one
2. Actor inputs new password
3. System asks for confirmation of the new password
4. Actor confirms new password
5. Return to MSS step 4

Use Case: Assigning shift to an employee

ID: UC-003

Reference: FR-02

Actor: Department Manager

Description: Actor assigning a shift to an available employee from the department

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to the Planner page
2. System loads available employees for the current date and a default role
3. Actor selects a date and role
4. System loads all available employees for selected date and role divided in shifts
5. Actor selects from available employees and confirms adding
6. System adds employee to schedule

Extensions:

3: The date and role are the ones the actor is looking for

1. Return to MSS step 4

4: No employees are available for the chosen date and role

1. System does not load any available employees
2. End of use case

5: Actor uses the drag and drop opportunity

1. Actor drags selected available employee to the corresponding shift and drops it
2. Return to MSS step 6

Use Case: Removing assigned shift for a department employee

ID: UC-004

Reference: FR-02

Actor: Department Manager

Description: Actor removing already assigned a shift employee from the department schedule

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to the Planner page
2. System loads available employees for the current date and a default role
3. Actor selects a date and role
4. System loads all available employees for selected date and role divided in shifts
5. Actor selects from available employees and confirms removal
6. System removes employee from schedule

Extensions:

3: The default date and role are the ones the actor is looking for

1. Return to MSS step 4

4: No employees are assigned shift for the chosen date and role

1. System does not load any assigned employees
2. End of use case

Use Case: Automatically generating schedule for a role per department

ID: UC-005

Reference: FR-02

Actor: Department Manager

Description: Actor automatically generates schedule for a role of his department

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to the Planner page
2. System loads available and busy employees for the current date and a selected role divided in shifts
3. Actor selects a a timeframe (day or week) for which schedule to be generated and confirms
4. System loads a page for changing the default number of employees required per shift and day for the given timeframe and asks for changes to be applied
5. Actor applies changes and confirms
6. System generates schedule for the selected timeframe,considering the changes, updates information and notifies actor for shifts lacking the required number of assigned employees

Extensions:

2: The default date and role are not the ones the actor is looking for

1. Actor selects new date and role
2. Return to MSS step 2

5: Actor does not want to apply any changes

1. Return to MSS step 6

6: There are already enough employees per shift assigned to the role for the selected timeframe

1. System does not generate schedule for selected timeframe and role
2. End of Use case

Use Case: Automatically generating schedule for a whole department

ID: UC-006

Reference: FR-02

Actor: Department Manager

Description: Actor automatically generates schedule for his department

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to the Planner page
2. System loads available and busy employees for the current date and a selected role divided in shifts
3. Actor selects a whole department schedule to be generated, chooses timeframe for the schedule (up to 4 weeks) and confirms
4. System loads a page for changing the default number of employees required per shift,role and day for the given timeframe and asks for changes to be applied
5. Actor applies changes and confirms
6. System generates schedule for the selected timeframe,considering the changes, updates information and notifies actor for shifts lacking the required number of assigned employees

Extensions:

5: Actor does not want to apply any changes

1. Return to MSS step 6

6: There are already enough employees per shift assigned to the role for the selected timeframe

1. System does not generate schedule for selected timeframe
2. End of Use case

Use Case: Searching for a currently working in department employee's information

ID: UC-007

Reference: FR-03

Actor: Department manager

Description: Actor wants to search for a currently working employee's information from the actor's department

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to All employees page
2. System loads all employees page and requests filtering criteria to be supplied
3. Actor supplies filtering criteria (id, email, first name, last name) and confirms searching
4. System processes filtering and loads first up to ten results
5. Actor navigates to the the pagination page containing the searched employee
6. System loads corresponding to the pagination page number up to ten results
7. Actor selects employee from the results
8. System loads selected employee's non-sensitive information

Extensions:

3: Actor does not supply filtering criteria

1. System loads first up to ten currently working department employees
2. Return to MSS step 7

4: No employee's id, email or name contains the the input

1. System loads no results
2. End of use case

5: The employee the actor looks for is in the already listed results

1. Return to MMS step 7

Use Case: Searching for any currently working employee's information

ID: UC-008

Reference: FR-03

Actor: HR Manager

Description: Actor wants to search for a currently working employee's information

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to All employees page
2. System loads all employees page and requests filtering criteria to be supplied
3. Actor supplies filtering criteria (id, email, first name, last name) and confirms searching
4. System processes filtering and loads first up to ten results
5. Actor navigates to the the pagination page containing the searched employee
6. System loads corresponding to the pagination page number up to ten results
7. Actor selects employee from the results
8. System loads selected employee's non-sensitive information

Extensions:

3A: The employee the actor looks for is a manager

1. Actor chooses to see managers
2. System loads first up to ten managers ordered by id ascending
3. Return to MMS step 3

3B: Actor does not supply filtering criteria

1. System loads first up to ten currently working department employees
2. Return to MSS step 7

4: No employee's id, email or name contains the the input

1. System loads no results
2. End of use case

5: The employee the actor looks for is in the already listed results

1. Return to MMS step 7

Use Case: Searching for a no longer working in the company employee's information

ID: UC-009

Reference: FR-03

Actor: HR Manager

Description: Actor wants to search for a employee who used to work in the company in the last 7 years

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to the Archive page
2. System loads all employees page and requests filtering criteria to be supplied
3. Actor supplies filtering criteria (id, email, first name, last name) and confirms searching
4. System processes filtering and loads first up to ten results
5. Actor navigates to the the pagination page containing the searched employee
6. System loads corresponding to the pagination page number up to ten results
7. Actor selects employee from the results
8. System loads selected employee's non-sensitive information

Extensions:

3: Actor does not supply filtering criteria

1. System loads first up to ten currently working department employees
2. Return to MSS step 7

4: No employee's id, email or name contains the the input

1. System loads no results
2. End of use case

5: The employee the actor looks for is in the already listed results

1. Return to MMS step 7

Use Case: Adding a new employee

ID: UC-010

Reference: FR-03

Actor: HR Manager

Description: Actor wants to add a new employee to the system

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to the add a new employee page
2. System loads all information fields and asks for new employee information to be provided
3. Actor provides new employee information and confirms
4. System validates provided information and creates account for the new employee

Extensions:

4A: One or more fields are left empty

1. System displays an error message that not all fields are filled
2. Return to MMS step 2

4B: Inputted data does not meet the requirements

1. System displays an error message about which requirement is not met
2. Return to MMS step 2

Use Case: Removing an employee

ID: UC-011

Reference: FR-03

Actor: HR Manager

Description: Actor wants to remove an employee from the planning system

Pre-Condition: Actor is logged in

Main Success Scenario:

1. Actor navigates to the all employees page
2. System loads first up to ten other than manager employees ordered by id ascending
3. Actor navigates to the the pagination page containing the searched employee
4. System loads corresponding to the pagination page number up to ten currently working employees
5. Actor selects an employee to be removed and confirms
6. System displays an alert message and asks for second confirmation
7. Actor confirms the second confirmation
8. System removes selected employee

Extensions:

2: No employees other than the actor are identified to the system

1. System does not load any employees
2. End of use case

3A: The employee the actor looks for is a manager

1. Actor chooses to see managers
2. System loads first up to ten managers ordered by id ascending
3. Return to MMS step 3

3B: The employee the actor looks for is in the already listed results

1. Return to MMS step 5

7: Actor performs another action and does not confirm the second confirmation

1. System does not delete vehicle
2. End of use case

Use Case: Rehiring an employee

ID: UC-012

Reference: FR-03

Actor: HR Manager

Description: Actor wants to restore an employee from the archive

Pre-Condition: Actor is logged in

Main Success Scenario:

1. Actor navigates to the Archive page
2. System loads first up to ten no longer working employees ordered by id ascending
3. Actor navigates to the the pagination page containing the searched employee
4. System loads corresponding to the pagination page number up to ten no longer working employees
5. Actor selects an employee to be restored and confirms
6. System displays an alert message and asks for second confirmation
7. Actor confirms the second confirmation
8. System reads employee and rehires it

Extensions:

2: There are not any archived employees

1. System does not load any employees
2. End of use case

3: The employee the actor looks for is in the already listed results

1. Return to MMS step 5

7: Actor performs another action and does not confirm the second confirmation

1. System does not delete vehicle
2. End of use case

Use Case: Changing the wage of an employee

ID: UC-013

Reference: FR-03

Actor: HR Manager

Description: Actor wants to change the wage of a currently working employee

Pre-Condition: Actor is logged in

Main Success Scenario:

1. Actor navigates to the all employees page
2. System loads first up to ten other than manager employees ordered by id ascending
3. Actor navigates to the the pagination page containing the searched employee
4. System loads corresponding to the pagination page number up to ten currently working employees
5. Actor selects an employee the wage of to be changed and confirms
6. System navigates to the change wage page and asks for new wage to be inputted
7. Actor inputs new wage and confirms the second confirmation
8. System changes the wage of the selected employee and updates information

Extensions:

2: No employees other than the actor are identified to the system

1. System does not load any employees
2. End of use case

3A: The employee the actor looks for is a manager

1. Actor chooses to see managers
2. System loads first up to ten managers ordered by id ascending
3. Return to MMS step 3

3B: The employee the actor looks for is in the already listed results

1. Return to MMS step 5

7: Actor performs another action and does not confirm the second confirmation

1. System does not delete vehicle
2. End of use case

Use Case: Adding product

ID: UC-014

Reference: FR-06

Actor: Product Manager

Description: Actor adds a new product to the system

Pre-Condition: Actor is on the stock form

Main Success Scenario:

1. Actor selects the option to add a product.
2. System displays the form to add the product.
3. Actor provides the product's name, category, year, barcode, description and quantity in stock.
4. System saves the information into the database.

Extensions:

3A: Not all fields are filled up with correct information

1. System displays an error message that not all fields are filled correctly
2. Return to MSS step 2

Use Case: Send products to the store from the depot

ID: UC-015

Reference: FR-09

Actor: Depot worker

Description: Actor sends products to the store

Pre-Condition: Actor is on the depot worker form

Main Success Scenario:

1. Actor selects the wanted product from the list.
2. System displays all the information for the selected product.
3. Actor chooses to send products.
4. System asks for the amount to be sent.
5. Actor enters the amount and confirms.
6. System validates the amount and adds the stock in the store.

Extensions:

3A: Not enough stock

1. System displays an error message that the stock amount wanted to be sent exceeds the amount in the depot.
2. End of use case

5A: Invalid stock information.

1. System displays an error message that the stock information is invalid.
2. Return to MSS step 4.

Use Case: Send a restocking request to the depot manager

ID: UC-016

Reference: FR-09

Actor: Depot worker

Description: Actor sends a restocking request for a particular product to the depot manager

Pre-Condition: Actor is on the depot worker form

Main Success Scenario:

1. System loads a list of products and their details
2. Actor selects a product by clicking it.
3. System asks for the quantity of stock requested.
4. Actor enters the amount and confirms.
5. System validates the amount and sends the request to the depot manager.

Extensions:

3A: Invalid stock information.

1. System displays an error message that the stock information is invalid.
2. Return to MSS step 2

Use Case: Order products from supplier

ID: UC-017

Reference: FR-10

Actor: Depot manager

Description: Actor orders more stock for a product in the system

Pre-Condition: Actor is logged in as a depot manager

Main Success Scenario:

1. Actor navigates to the Restocking page by clicking the button labelled Depot Restocking
2. System asks for a supplier in order to show the requests from that supplier
3. User chooses a supplier from the list of suppliers provided by the system
4. System loads the requests with products that can be ordered from that supplier
5. User adds the requests he wants to the cart (For each product, actor can modify the quantity of the product in the cart if desired)
6. System adds the quantity from the request (including any modifications made by the actor) to the product.
7. Actor confirms the order.
8. System forwards the order to the supplier and notifies the actor about the estimated arrival time.

Use Case: Request products for the store

ID: UC-018

Reference: FR-08

Actor: Sales representative

Description: Actor requests more stock for a product in the store

Pre-condition: Actor is logged in as a sales representative

Main success scenario:

1. Actor navigates to the Request page by clicking the button labelled Manage store
2. System asks for a product code and quantity
3. Actor scans a product, inputs the quantity and submits
4. System forwards the request to the depot workers

Extensions:

3A: Invalid quantity

1. System displays a message that the quantity inputted is either too big or to small
2. Return to MSS step 2.

3A: Invalid barcode

1. System displays a message that the product doesn't exist.
2. Return to MSS step 2.

Use Case: Edit products

ID: UC-019

Reference: FR-06

Actor: Product Manager

Description: Actor edits a product in the system

Pre-Condition: Actor is on the product form

Main Success Scenario:

1. Actor selects the wanted product from the list.
2. System displays all the information for the selected product.
3. Actor chooses to edit the product.
4. System displays the details that can be edited.
5. Actor modifies the name, category, year, barcode and/or the description.
6. System validates the details and edits the product in the database.

Extensions:

5A: Not all fields are filled up with information

1. System displays an error message that not all mandatory fields are filled.
2. Return to MSS step 4.

5B: Fields are filled with invalid data

1. System displays an error message that data entered is invalid.
2. Return to MSS step

Use Case: Recovering password

ID: UC-020

Reference: FR-04

Actor: All users

Description: Actor recovers the password that he forgot

Pre-condition: Actor is on the login screen

Main success scenario:

1. Actor selects the forgotten password option
2. System sends actor to a form requesting account email
3. Actor enters email and submits
4. System request secret question and answer
5. Actor chooses a secret question and provides answer
6. System request new password
7. Actor enters new password
8. System updates the old password with the new one

Extensions:

3: Invalid email is submitted

1. System displays an error message that the email is invalid.
2. Return to MSS step 2.

5: Question answer is not correct

1. System displays an error message that the question is not correctly answered
2. Return to MSS step 5.

Use Case: Updating account information

ID: UC-021

Reference: FR-04

Actor: HR Manager and Department manager

Description: Actor changes the phone number, password or secret question attached to the account

Pre-condition: Actor is logged in and in the main menu

Main success scenario:

1. Actor opens the personal information form
2. System asks for actor's info
3. Actor enters phone number, secret question, answer, old and new password
4. System saves new phone number, password, secret question and answer and sends actor back to the menu

Extensions:

3: Inputted information does not meet the requirements

1. System displays an error message that the fields are incorrectly filled
2. Return to MSS step 3

Use Case: Modifying product price

ID: UC-022

Reference: FR-07

Actor: Sales manager

Description: Actor changes the price of a product

Pre-condition: Actor is on the sales manager form

Main success scenario:

1. Actor chooses a product
2. System displays information about the product
3. Actor enters the new price for the product
4. System saves the new price for the product

Extensions:

3A: Fields are incorrectly filled

1. System displays an error message that the fields are incorrectly filled
2. Return to MSS step 3

Use Case: Request a shift exchange

ID: UC-023

Reference: FR-13

Actor: Employee

Description: Actor requests a shift exchange for a working day.

Pre-condition: Actor is logged in

Main success scenario:

1. Actor navigates to the Schedule page
2. System generates a calendar with 4 weeks, showing which days the actor will work, which days he sent a request for and pagination to browse through the upcoming weeks
3. Actor selects a working day from the calendar
4. System asks for a reason for the request
5. Actor provides a reason and submits
6. System validates and sends the request to the manager of the department the actor is part of

Extensions:

5A: Invalid reason

1. System notifies the actor that the provided reason is invalid
2. Return to MSS step 4

Use Case: Mark unavailability

ID: UC-024

Reference: FR-11

Actor: Employee

Description: Actor marks his unavailability for a selected date

Pre-condition: Actor is logged in

Main success scenario:

1. Actor navigates to the Mark unavailability page
2. System generates a calendar with 4 weeks, having the current week and next 2 weeks locked and pagination to browse through the upcoming weeks.
3. Actor selects a date from the calendar and submits.
4. System validates and marks his unavailability.

Extensions:

3A: Unavailability is already marked for the selected date

1. System marks back availability for that date.
2. Return to MSS step 2.

Use Case: View order history

ID: UC-025

Reference: FR-10

Actor: Depot manager

Description: View the Order history of the depo

Pre-condition: Actor is on the Depot manager menu

Main success scenario:

1. Actor click the depot Restocking button on the main menu
2. System loads the depot restocking page
3. Actor clicks “view Order history” in the Depot Restocking page
4. System loads the Order history page on the screen.
5. Actor clicks to select an order in the list of orders displayed
6. System displays list of products in the selected order

Extensions:

3A: No previous orders exist

1. System displays a message that there aren't any orders from the past in the system.
2. End of use case

Use Case: Clock in or out

ID: UC-026

Reference: FR-14

Actor: Employee

Description: View the Order history of the depo

Pre-condition: Actor is on the Depot manager menu

Main success scenario:

1. Actor puts barcode in front of the scanner
2. System reads the barcode and saves the action time

Extensions:

2A: Actor clocked in again in a short time span

1. System displays a message that the actor clocking in again too soon
2. End of use case

Use Case: Log out from desktop application

ID: UC-027

Reference: FR-01

Actor: HR Manager and Department manager

Description: Actor logging out of the desktop application

Pre-Condition: The actor has logged in

Main Success Scenario:

1. Actor navigates to the menu page
2. System loads the menu page
3. Actor navigates to log out
4. System asks for confirmation of the action
5. Actor confirms
6. System logs out the actor and redirects to log in page

Extensions:

5: Actor does not confirm

1. System does not log out the actor
2. End of use case

Use Case: Take over a shift

ID: UC-028

Reference: FR-14

Actor: Employee

Description: Actor takes over an available shift

Pre-condition: Actor is logged in, there is at least one shift available

Main success scenario:

1. Actor navigates to the Schedule page
2. System displays all the available shifts that the actor can take over
3. Actor chooses a shift and presses the”Take shift” button
4. System validates and adds him to the schedule for the selected shift

Extensions:

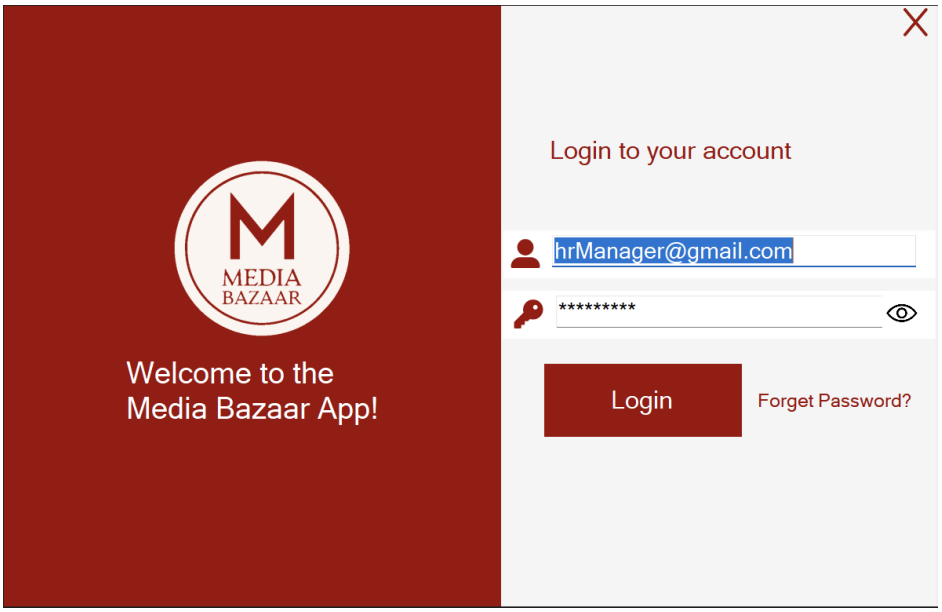
2A: No shifts are displayed

1. End of use case

GUI

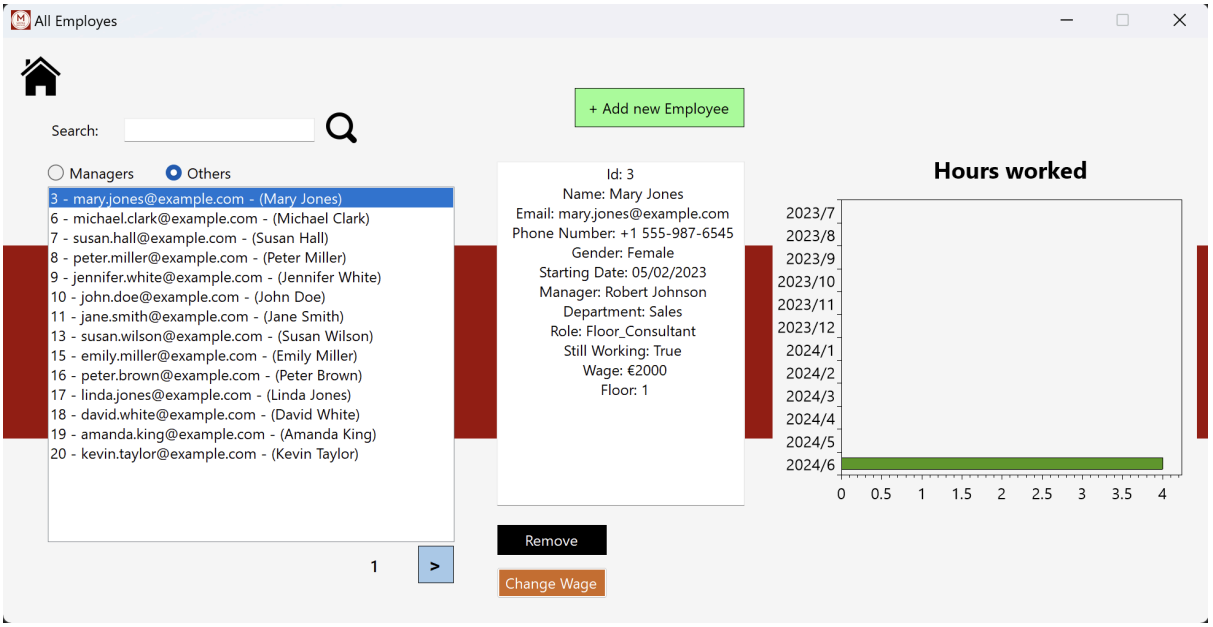
Login Page

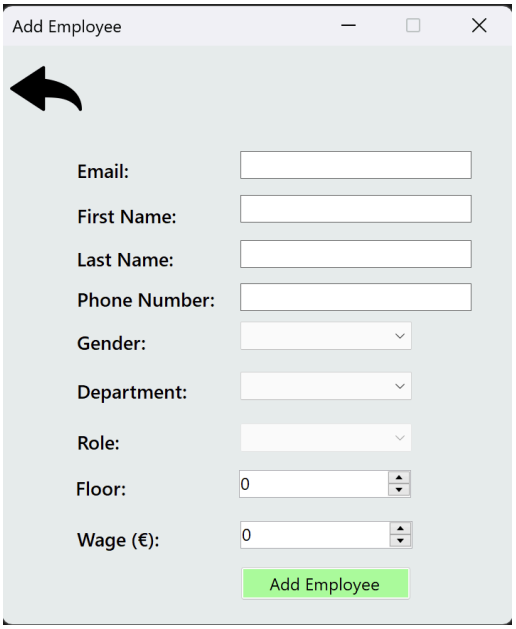
Users can enter their email or password to log in, or go to the “Forget Password?” if they need to check their password.

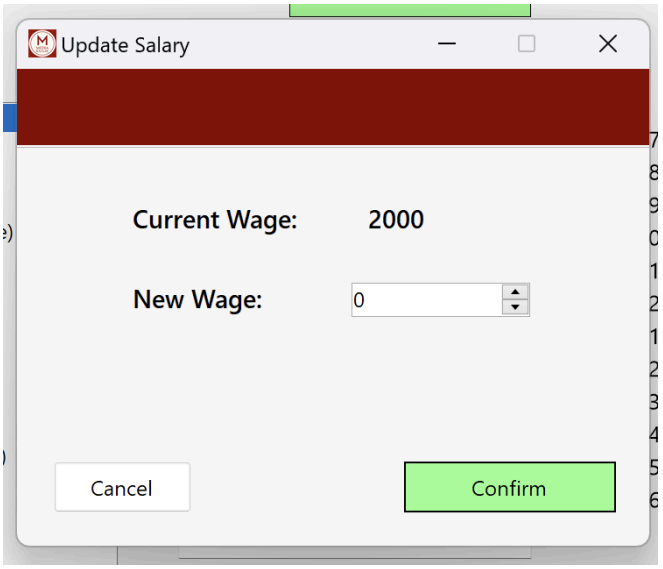


Employees Page

The HR Manager can look at employee details, change wages, add new employees and mark employees as no longer working.

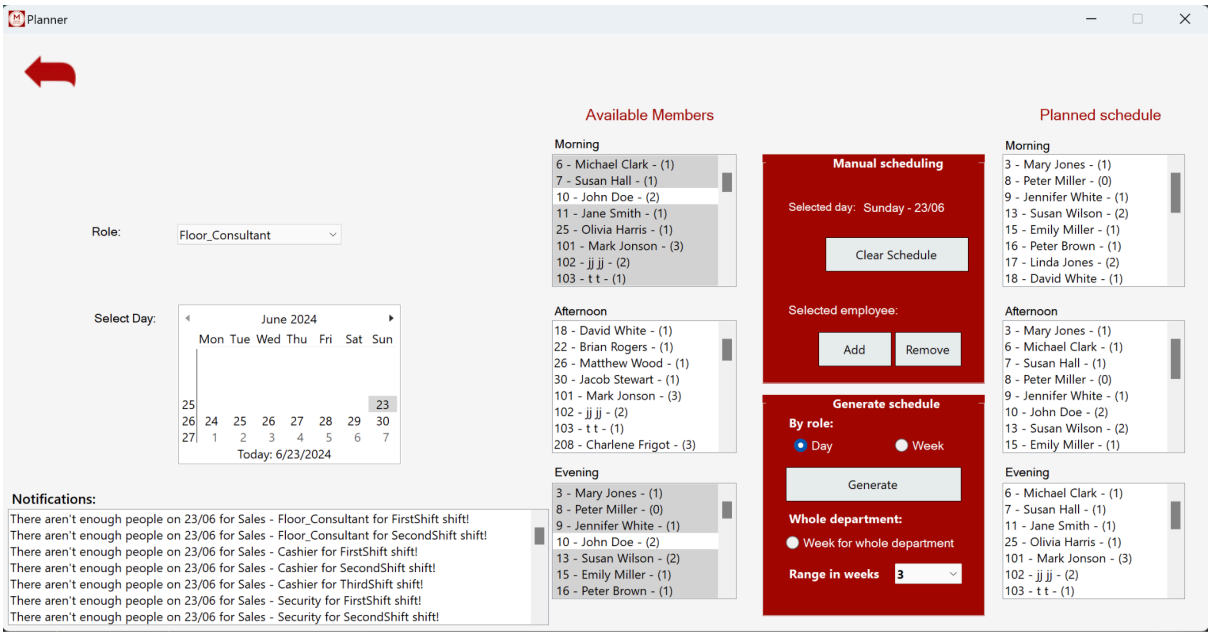


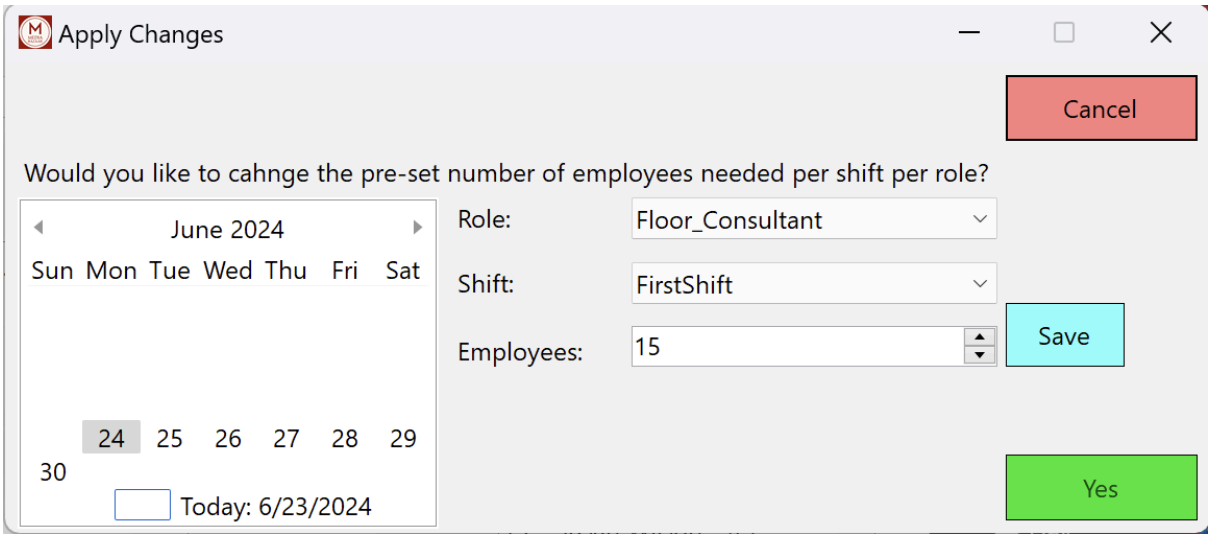




Schedule Planner

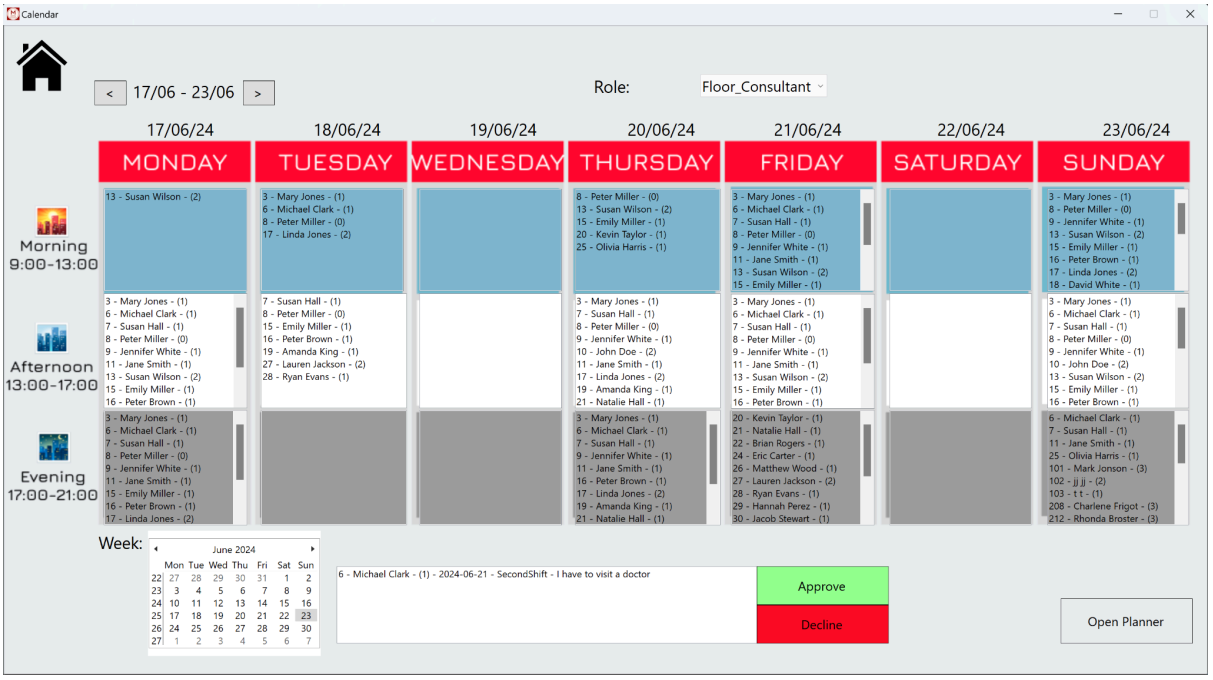
Here the shift for future days and weeks can be either automatically or manually set. Changes in the number of employees to be assigned a shift can be applied.





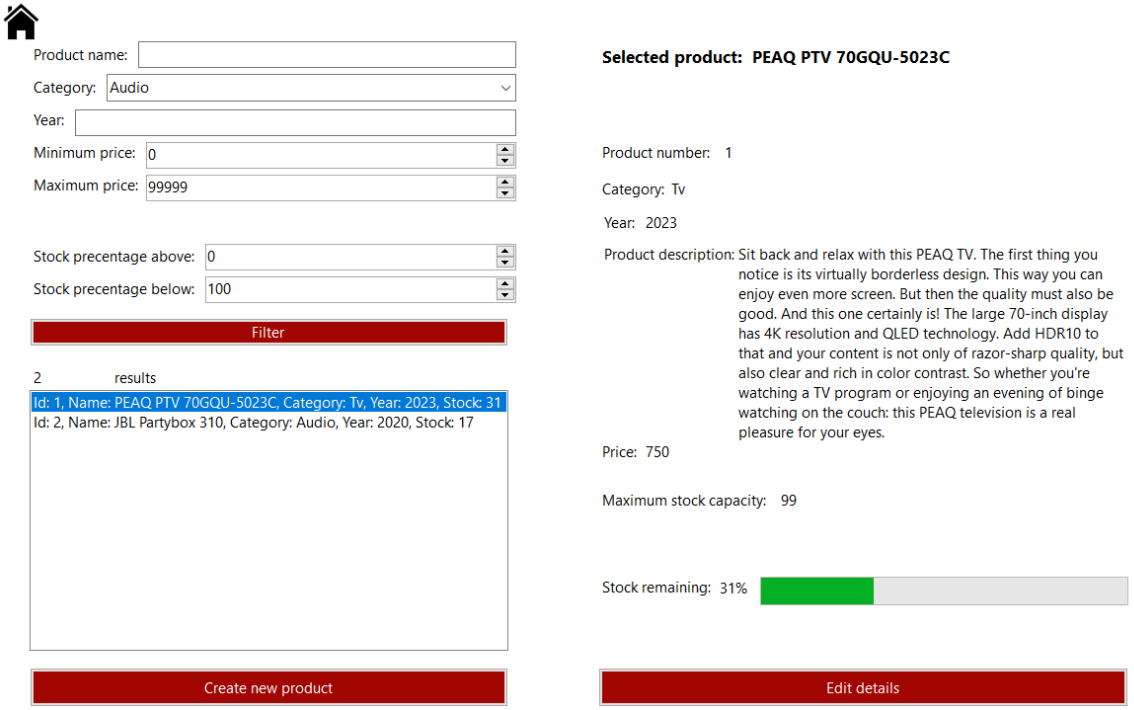
Schedule

Here the department managers can see the schedule for their department divided in weeks. Department managers can also approve and decline shift requests. HR manager can see the schedule for all roles within all departments, but is not allowed to accept or decline any trades.



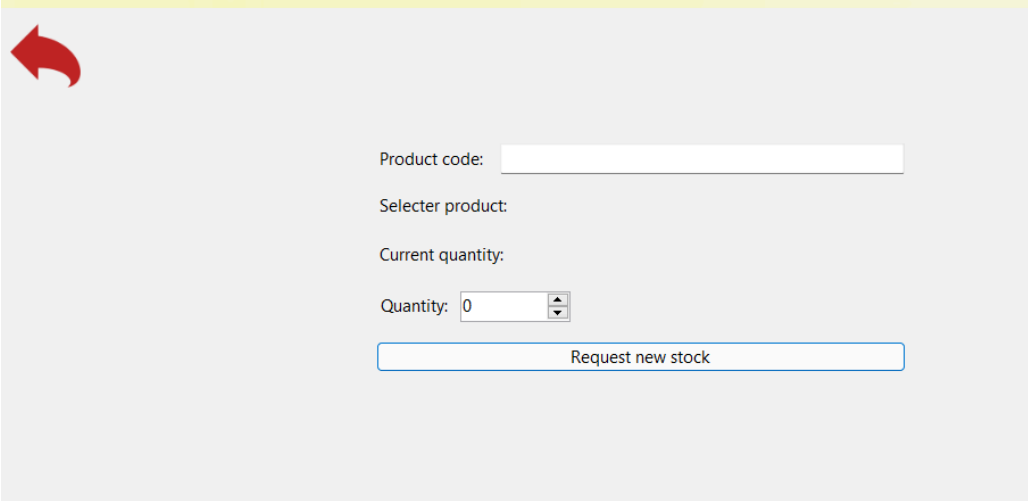
Product manager

There is a list of all the products, with a search function that has several filters and once a product is selected it will display the product information. There are also the options of adding new products, editing details of a product and editing the stock of the product.



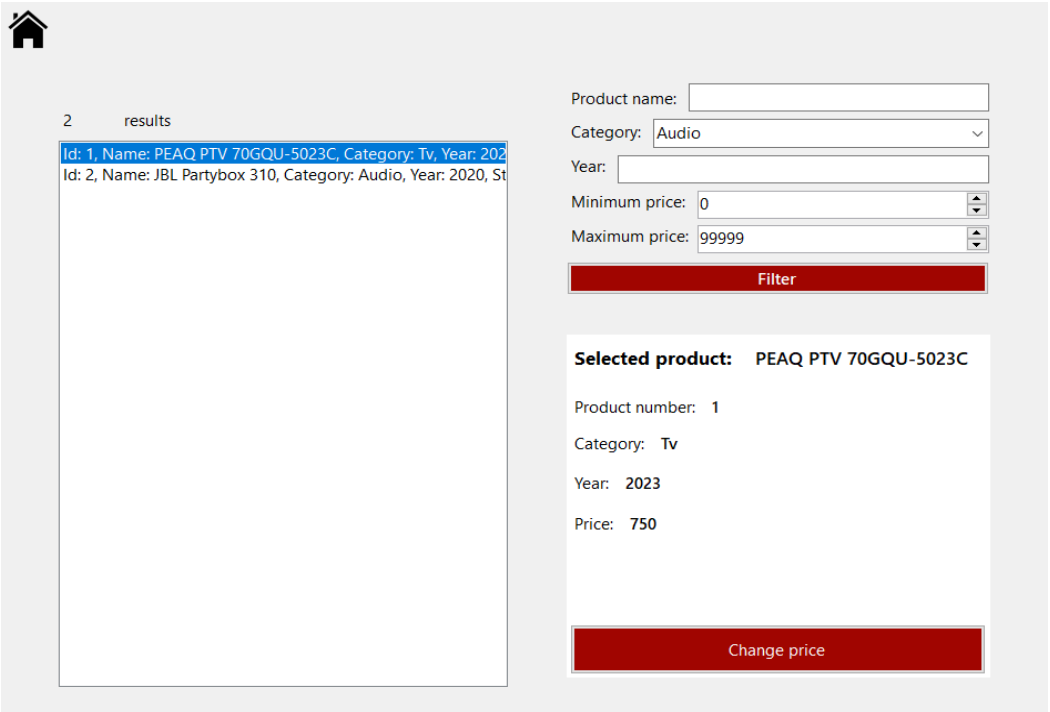
Sales representative

On this page the sales representative is able to scan the barcode on a product then the system will find the product in our database and present it on the screen as the Selected product. Then the user can Input the quantity they want to request and submit the request.



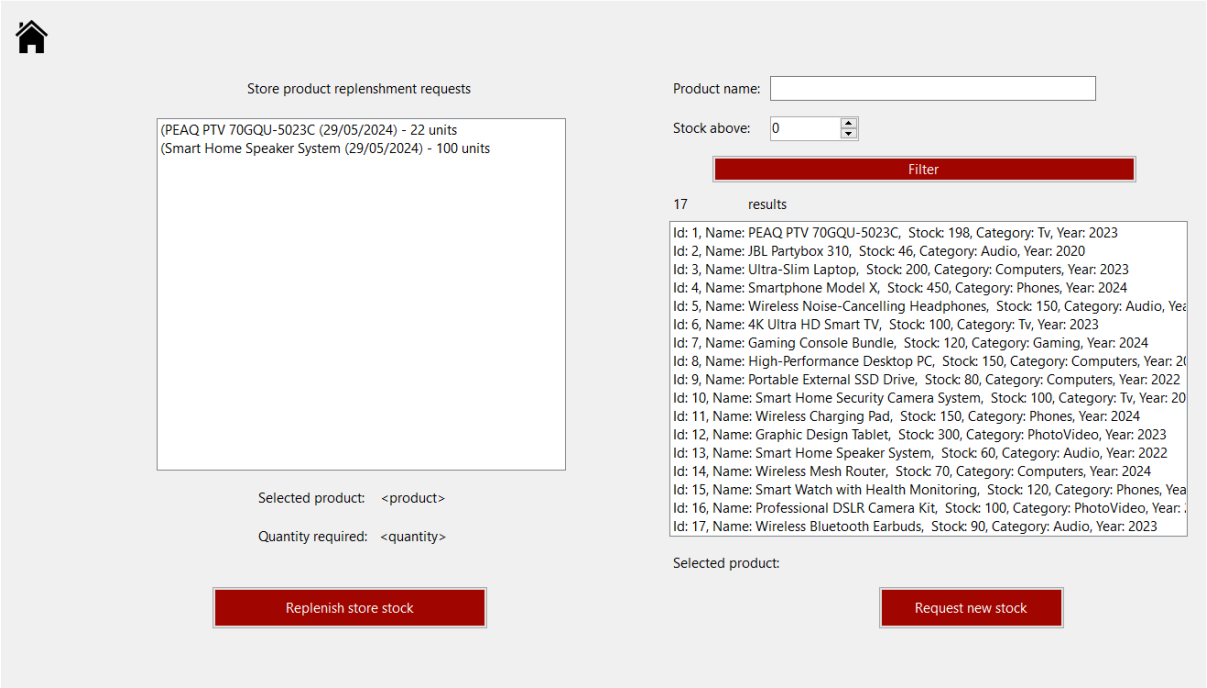
Sales manager

There is a list of all the products, with a search function that has several filters and once a product is selected it will display the product information. There is also an option to change the price.



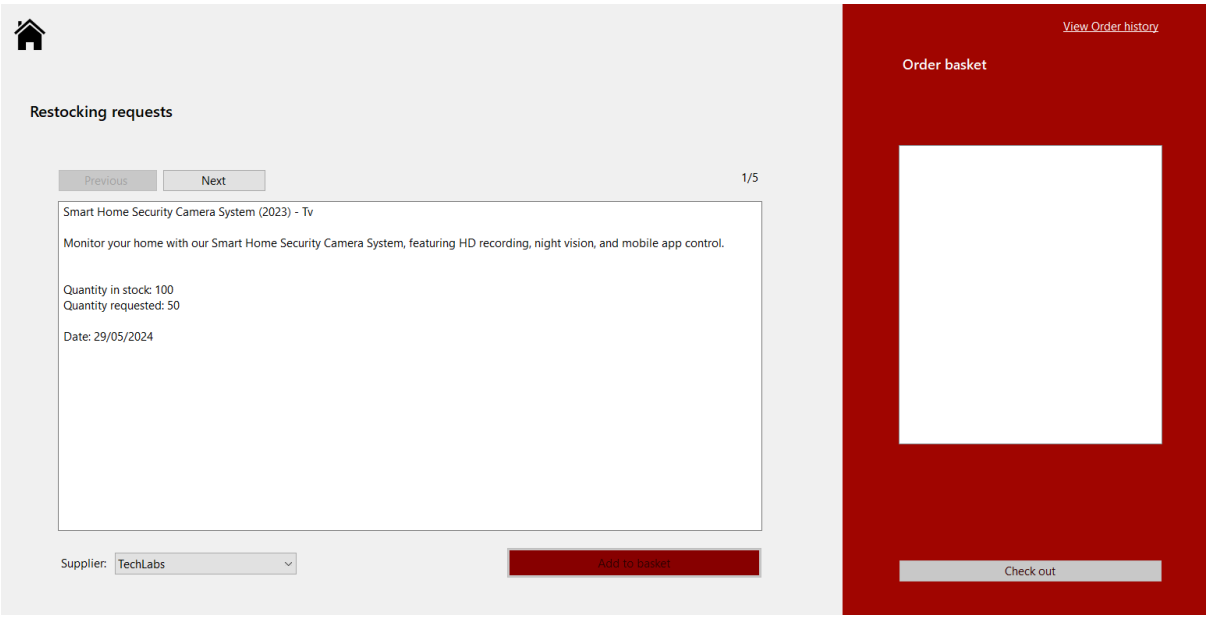
Depot worker

This page is a depot worker exclusive feature that allows the actor to respond to requests from the sales department, and request new stock from the depot manager.



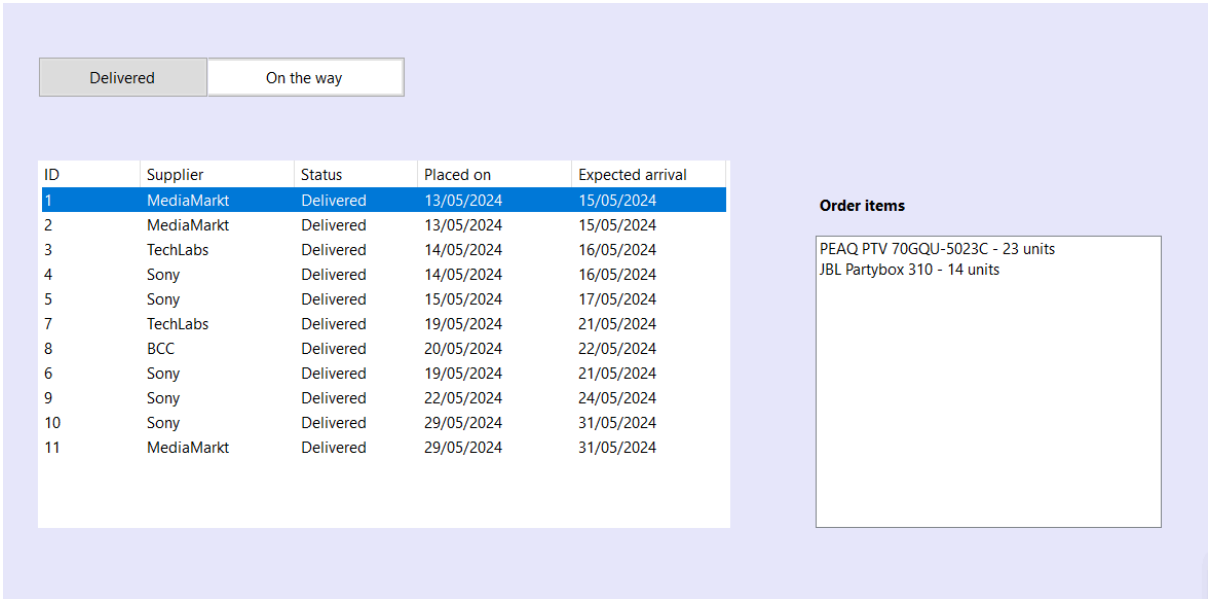
Depot manager

This page is a depot manager exclusive feature that allows the actor to respond to requests made by the depot workers, by ordering products from the supplier. He can also see the order history.



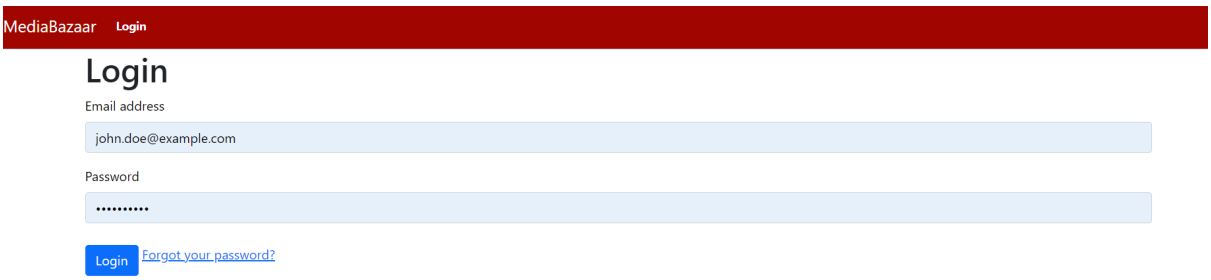
Depot manager - Order history

Here is the order history, where the actor can see orders that have been delivered and orders that are on the way.



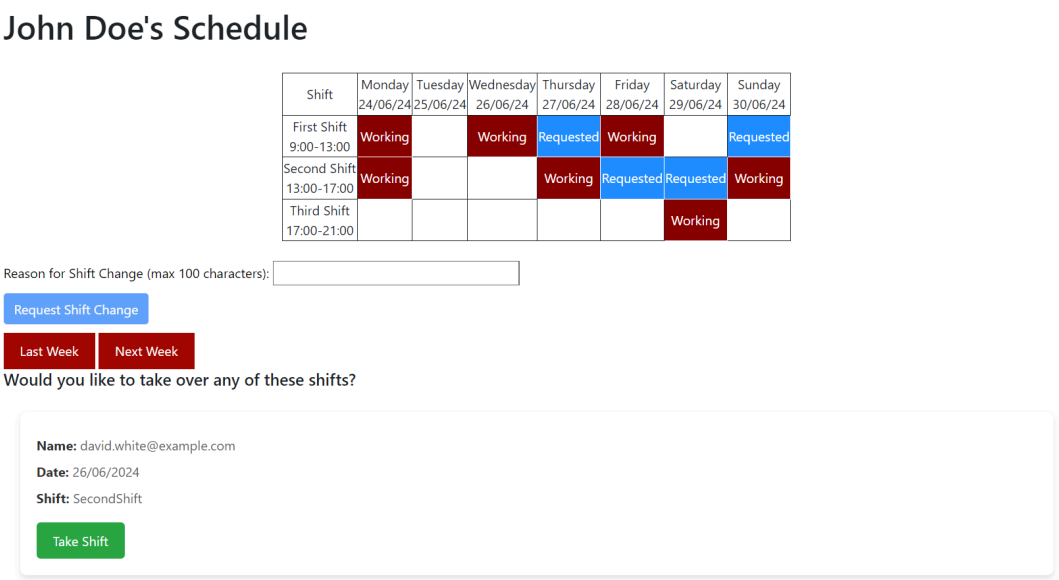
Log in Web App

Users can enter their email or password to log in, or go to the “Forget Password?” if they need to check their password.



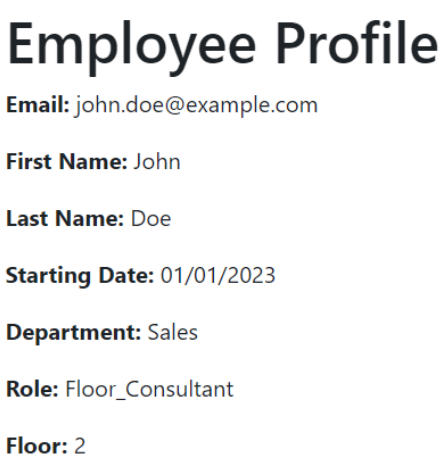
Schedule Page

Users can see their schedule, request a shift change, and take over any shift that is available.



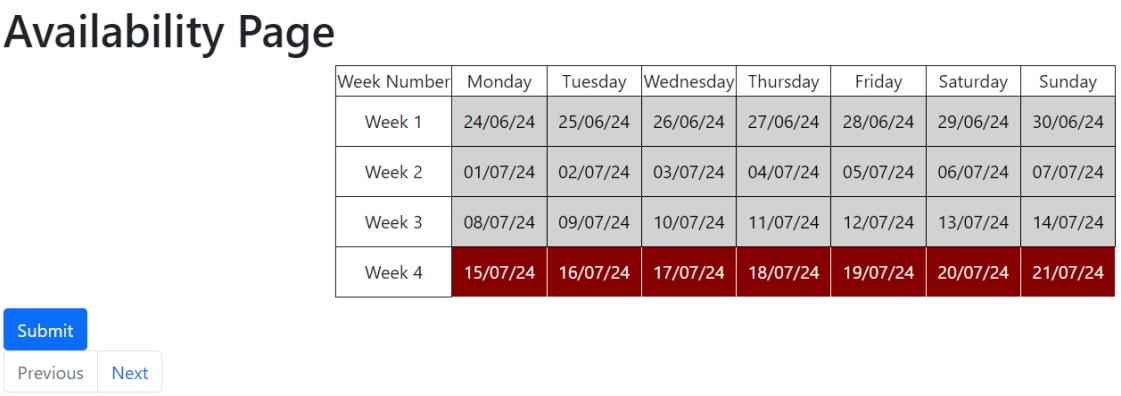
Profile Page

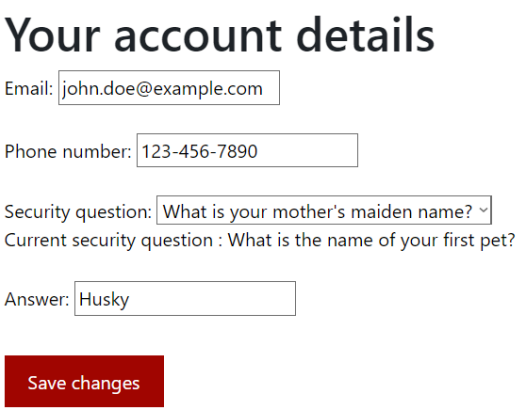
Users can see their details, including their department and which floor they are working on.



Mark Availability Page

Users can see which days they are working, and they are able to mark their availability/unavailability for any day, except the first 3 weeks, as the schedule has already been generated for that time.



Account Page

Users can change some of their account details, along with the security question.