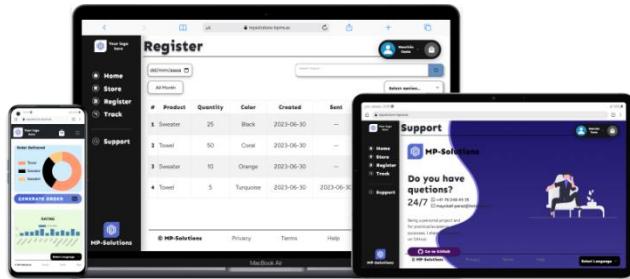


MP-Solution

BPMS

Use and functionality of the project



02. Juni 2023 – Mayckell Perez



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1. Introduction

1.1. Project summary

The **MP-Solutions BPMS** project was carried out from May to June 2023, with the objective of developing a path between the communication "Customer - Supplier and Internal Communication between departments" to facilitate the purchase and traceability of the order. Mayckell Perez developed the application from start to finish, starting with the functionalities according to process research and development time of a month and a half, preceded by its design and ending with the deployment at www.mpsolutions-bpms.es

1.2. Project objectives

With the development of **MP-Solution BPMS** we achieved the following objectives:

- **Communication between Client - Supplier**

The app allows you to register a new user and assign him a customer role, allowing him to generate orders and review previously placed orders.

- **Order tracking**

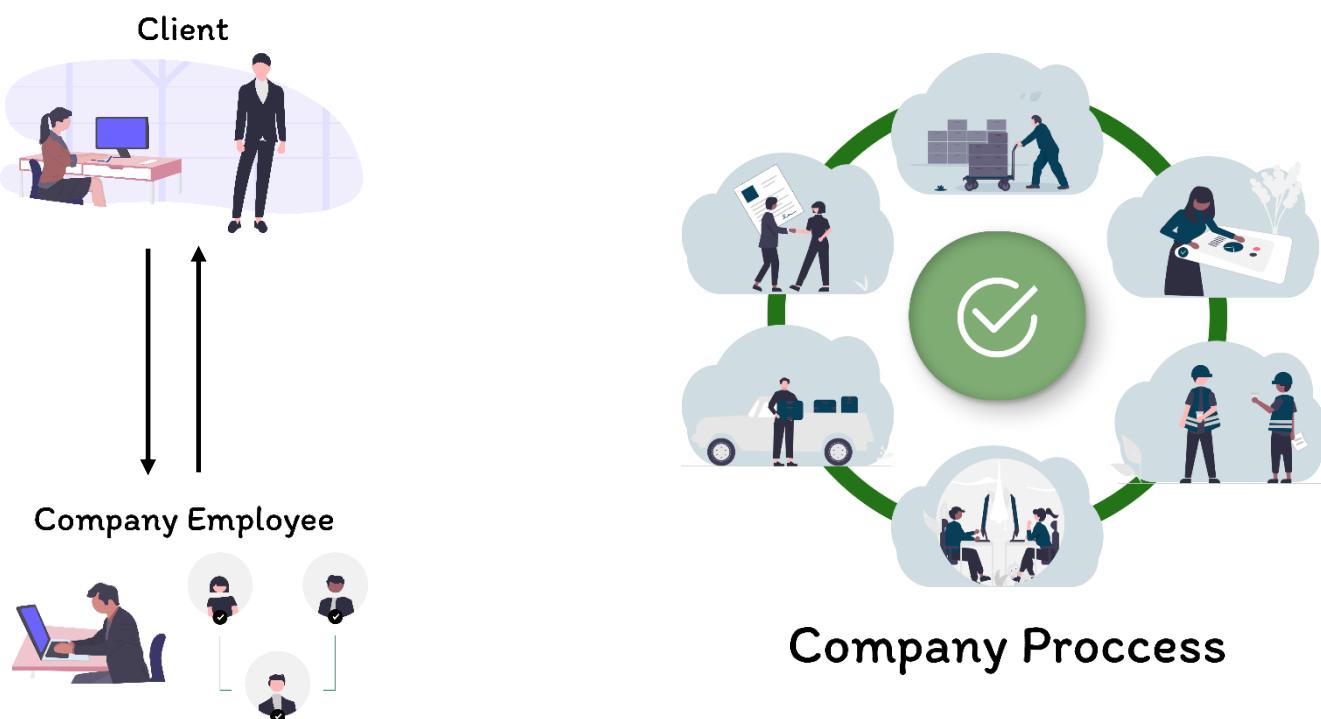
The app has real-time information on the department where the order is located, allowing for tracking.

- **Real-time internal communication**

Through the group or private chat, communication between employees is allowed, as well as a general chat for the whole company. When the process is finished in a certain department, an alert is sent in real time to the next department to start the corresponding order.

1.3. Scope

By creating multiple functionalities and an easy-to-understand design, we were able to generate a targeted outreach to small and slightly medium-sized businesses, and being open source and for academic use, it allows for customization and improvements in code development.





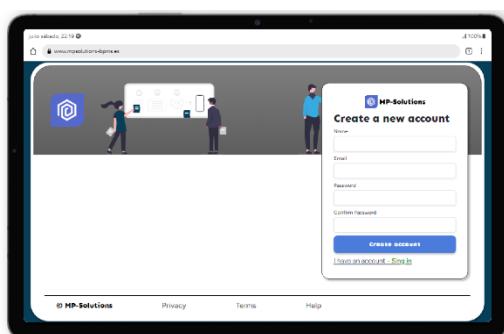
2. Client Account Manual



2.1. Create account

When starting the Web-App you will have the option to login with a registered account or create a new one.

For this example we use:



MP-Solutions

Create a new account

Name: Mike Müller

Email: client_2@hotmail.com

Password:
Confirm Password:

Create account

I have an account - Sing in

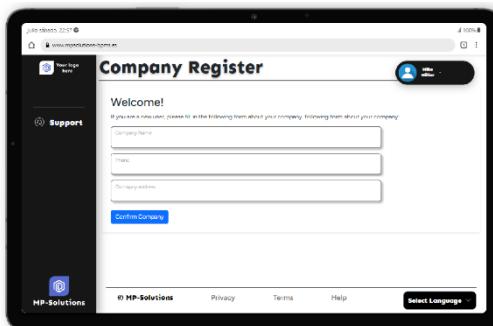
Name:
Mike Müller

Email:
client_2@hotmail.com

Password:
123456789

When logging in with the newly created account we will have to fill in our company Details.

For this example we use:



Welcome!

If you are a new user, please fill in the following form about your company

Company Name: Emma AG

Phone: 0732459561

Postfiling address: Regulastrasse 15, 8050 Zürich

Confirm Company

Company Name:
Emma AG

Phone:
0732459561

Company Address:
Regulastrasse 15, 8050 Zürich

Thank you!

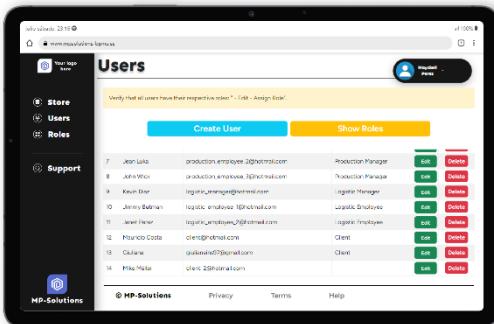
The administrator will give you access to your new account.

Test Mode: Log in as "Administrator" and generate the role for your new account.

When entering the company's data, we wait for the administrator to assign us a role, otherwise, as it is "test mode", we do it using the administrator account and we assign ourselves the customer role.

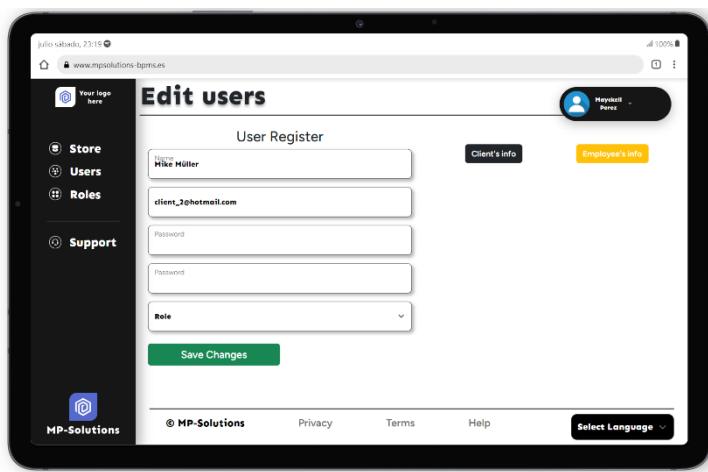
2.2. Assigning roles in Administrator mode

When logging in as Administrator we will be located in the **Users** section and we will notice that the newly created account has an empty **role** field:



7	Jean Luka	production_employee_2@hotmail.com	Production Manager	<button>Edit</button>	<button>Delete</button>
8	John Wick	production_employee_3@hotmail.com	Production Manager	<button>Edit</button>	<button>Delete</button>
9	Kevin Diaz	logistic_manager@hotmail.com	Logistic Manager	<button>Edit</button>	<button>Delete</button>
10	Jimmy Butman	logistic_employee_1@hotmail.com	Logistic Employee	<button>Edit</button>	<button>Delete</button>
11	Janet Perez	logistic_employee_2@hotmail.com	Logistic Employee	<button>Edit</button>	<button>Delete</button>
12	Mauricio Costa	client@hotmail.com	Client	<button>Edit</button>	<button>Delete</button>
13	Giuliana	giulianains97@gmail.com	Client	<button>Edit</button>	<button>Delete</button>
14	Mike Müller	client_2@hotmail.com		<button>Edit</button>	<button>Delete</button>

- Select **Edit**.
- Assign the **Client** role to our new account:



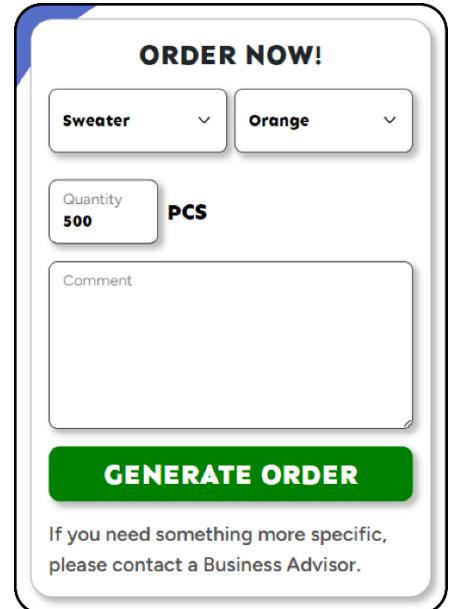
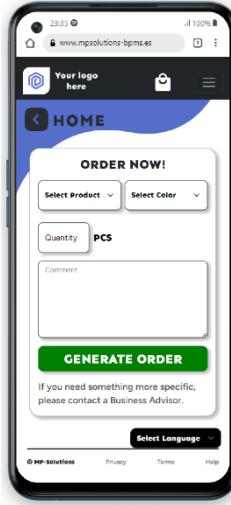
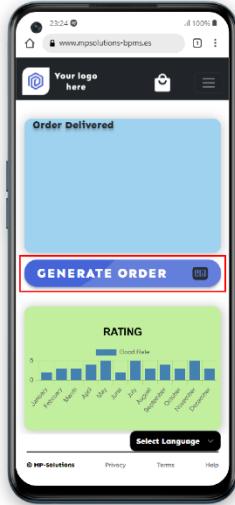
- Finally, we log back into our account and we will find the following interface:



2.3. Generate order

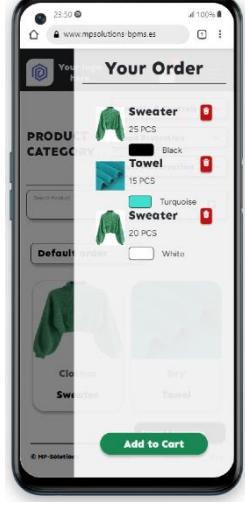
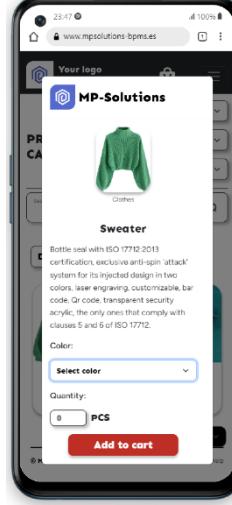
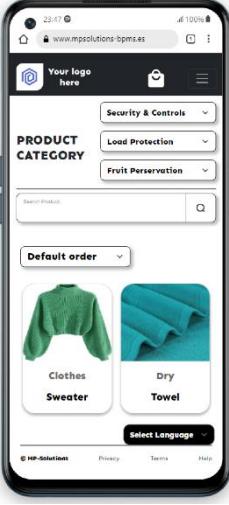
2.3.1 Through quick purchase

Press the **GENERATE ORDER** button, then select the product:



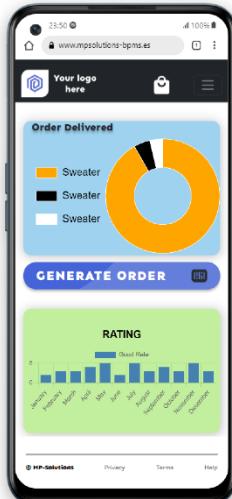
2.3.2. Through the store

Open: **Menu - Store** - Select the product you want to add to the shopping cart..



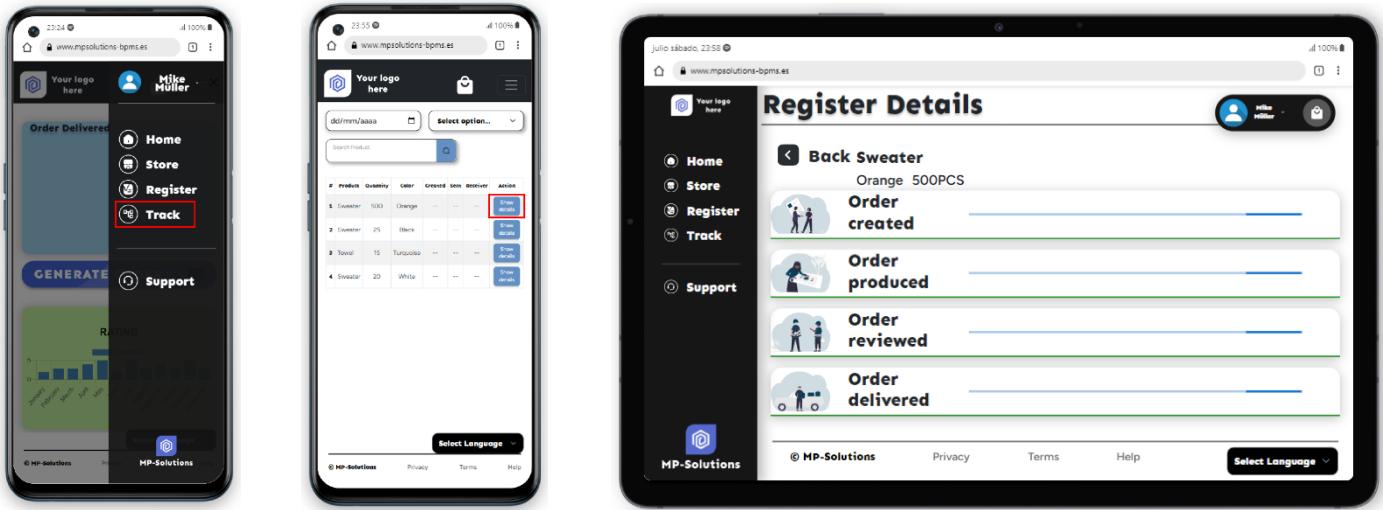
At the end of the purchase by any of the two methods we will obtain the 3 most ordered products in our **Dashboard**.

If we click on one of the products in the graph we can see the quantity ordered up to the current date.



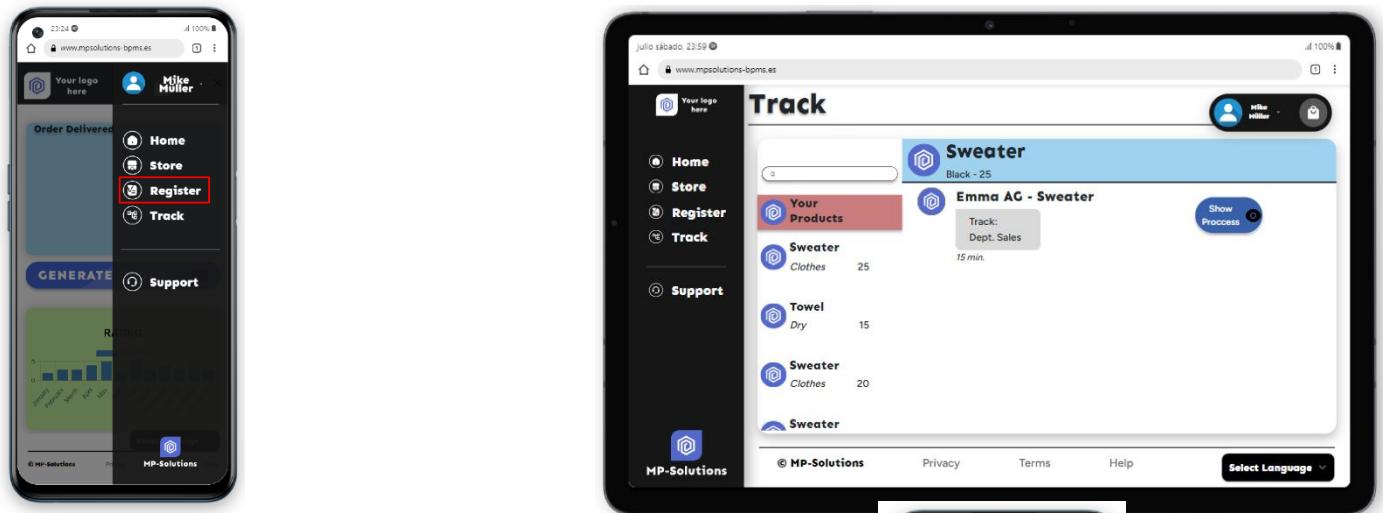
2.4. Order details

Open: **Menu - Register** - We will find a table with all our orders and relevant information.



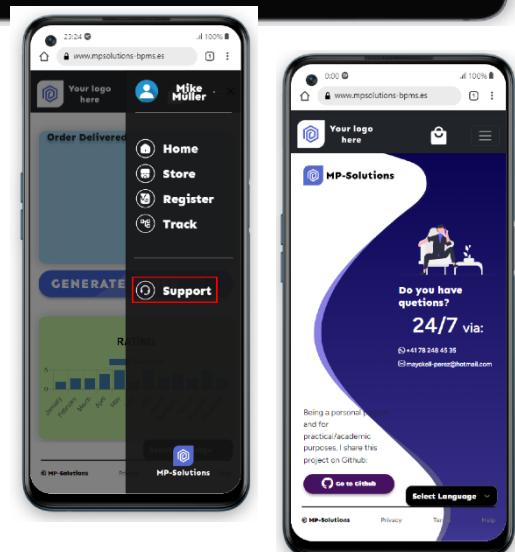
2.5. Tracking of our product

Open: **Menu - Track** - Select the product to know in which department it is currently located..



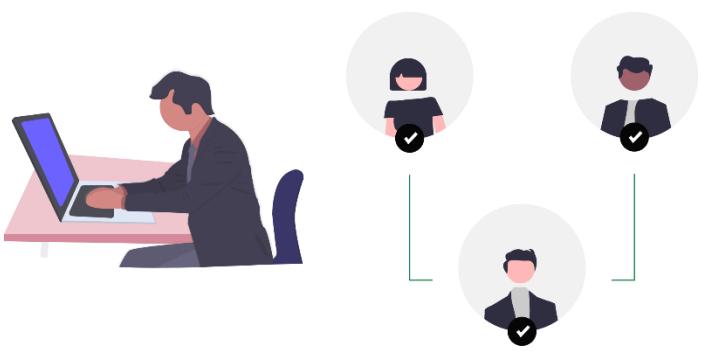
2.6. Web-App support

Open: **Menu - Support** - Find the link to the repository and developer data.





3. Supplier Account Manual



3.1. Admin user

The project is developed so that the account with the e-mail admin@hotmail.com is the one corresponding to the administrator user, therefore, this must be the first one to be created when starting the project together with the assignment to its role.

3.2. Create roles

The project has 7 initial roles:

1. Client
2. Admin
3. Seller
4. Warehouse
5. Production Department (manager)
6. Logistic Department (manager)
7. Logistic Department (employee)

To create the roles, in case the application has just been started:

Open: **Menu - Roles - Create Roles** - Select the role to create/enable it.

The screenshots show the 'Create Roles' interface across three devices (mobile phone, tablet, and desktop). The interface includes a sidebar with navigation links like Home, Store, Register, Track, Users, Roles, Support, and a language selector. The main area displays a table of roles with columns for Role name, Action (Delete), and a 'Select Language' dropdown. A 'Role name' input field is present. Below the table, there are sections for 'Special Roles' (Client, Admin) and 'Sale Department' (Manager, Employee). At the bottom, there are sections for 'Managers' (Warehouse, Production) and 'Logistic Department' (Manager, Employee). The desktop screenshot shows a larger view of the 'Create Roles' page with detailed descriptions for each role category.



3.3. Create employee

Once all the roles have been created, we proceed to create the users as employees for our company.

Open: Menu - Users - Create User - Fill in the form.

The screenshots illustrate the 'Create users' process. The first screen shows the main menu with 'Create User' highlighted. The second screen shows the user list with 'Users' selected. The third screen shows the 'Create users' form with fields for Name, Area, Job Position, Address, Phone, and Role, with 'Create User' at the bottom.

3.4. Sales Department

3.4.1. Seller role

In the Dashboard we will obtain the sales made annually and also the 3 most sold orders.

The screenshots illustrate the seller dashboard. The first screen shows 'Personal Performance' with a chart and metrics. The second screen shows 'Monthly Performance' with a chart and metrics. The third screen shows 'Top selling Products' with a pie chart and a 'GENERATE ORDER' button.

3.4.2. store for seller

The purpose of the store for the seller is to expedite the customer's purchase, in case the customer is unable to make the purchase due to external factors, the seller can generate the order by either of two methods.

ORDER NOW!

Select Product

Select Color

Quantity PCS

Select Company

Comment

GENERATE ORDER

If you need something more specific, please contact a Business Advisor.

MP-Solutions

Sweater

Bottle seal with ISO 17712:2013 certification, exclusive anti-spin 'attack' system for its injected design in two colors, laser engraving, customizable, bar code, QR code, transparent security acrylic, the only ones that comply with clauses 5 and 6 of ISO 17712.

Color:

Select color

Client:

Select Company

Quantity:

0 PCS

Add to cart



3.4.3. Seller registration

The seller can only see the records of his customers.

Once he confirms the purchase, the new order will be added to the records table.

#	Product	Quantity	Color	Created	Sent	Receiver	Action
1	Sweater	25	Black	2023-06-30	--	--	Show details
2	Towel	50	Coral	2023-06-30	--	--	Show details
3	Sweater	10	Orange	2023-06-30	--	--	Show details
4	Towel	5	Turquoise	2023-06-30	2023-06-30	Reception	Show details
5	Sweater	17	Black	2023-06-30	2023-06-30	Giuli	Show details

3.4.4. Order confirmation

- When you have a new order a notification will appear as a warning in the **Chat** section.
- Then in the **Chat** view you will have an option to switch screens between Chat - **Track**.
- By selecting **Track** we will get the orders that are still to be confirmed with a "*New Order*" message.

- Enter the new orders and select **Confirm**.
- We proceed to assign the price of the product stipulated with the customer.



3.5. Warehouse

3.5.1. Our stock

Open: Menu - Register - Stock - Fill in the form, to see the product click on Details.

The screenshots show the following sequence:

- Home screen with a red box around the "Register" button.
- Stock registration screen with a red box around the "REGISTER STOCK" button.
- Stock list screen showing various products like Sweater, Towel, and Blanket with edit and delete buttons.
- Product details screen for a Green Sweater with quantity 2500 and color Green.

3.5.2. Add product

Select the "+" button and add the new product

The screenshots show:

- The stock list screen with a green "+" button at the bottom left.
- A modal window titled "Create Product" with fields for Model, Category, Color, and a file input for "Upload Image!". A "Create Product" button is at the bottom.

3.5.3. Edit product

Select the Edit button and make the desired changes.

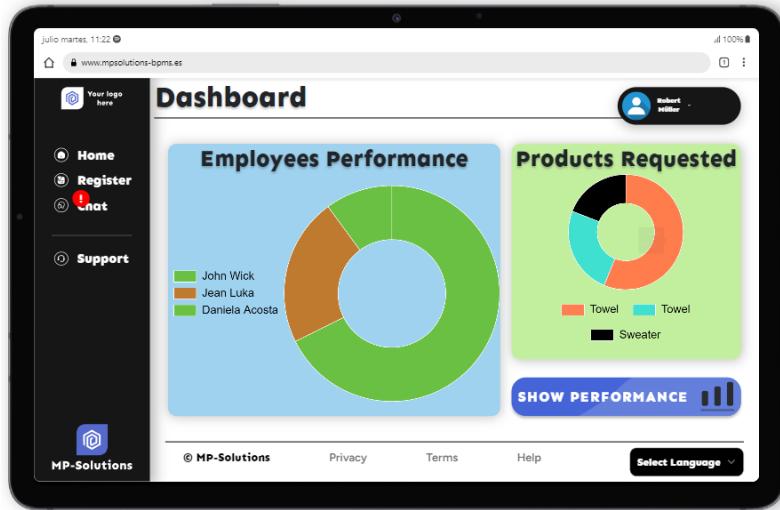
The screenshots show:

- The stock list screen with a red box around the "Edit" button for a Towel entry.
- A modal window titled "Edit Product" showing the product details for a Towel. A "Save Changes" button is at the bottom.

3.6. Productions Department

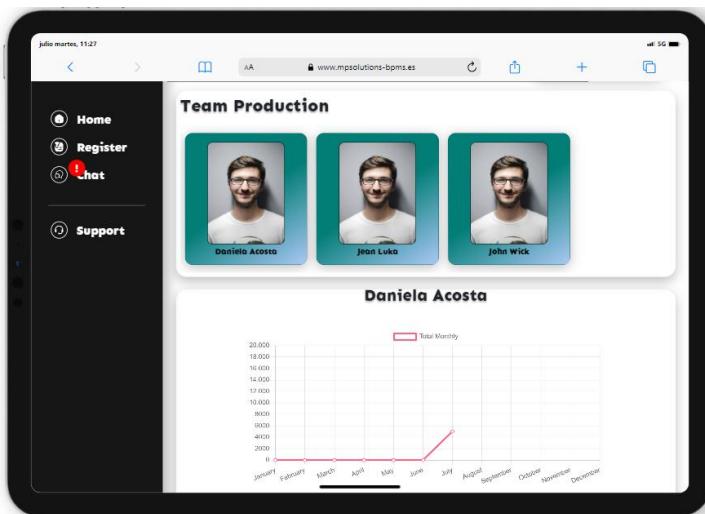
3.6.1. View Dashboard

We will find two graphs, the performance of the employees of this department and the 3 most requested products.



3.6.2. View employee performance

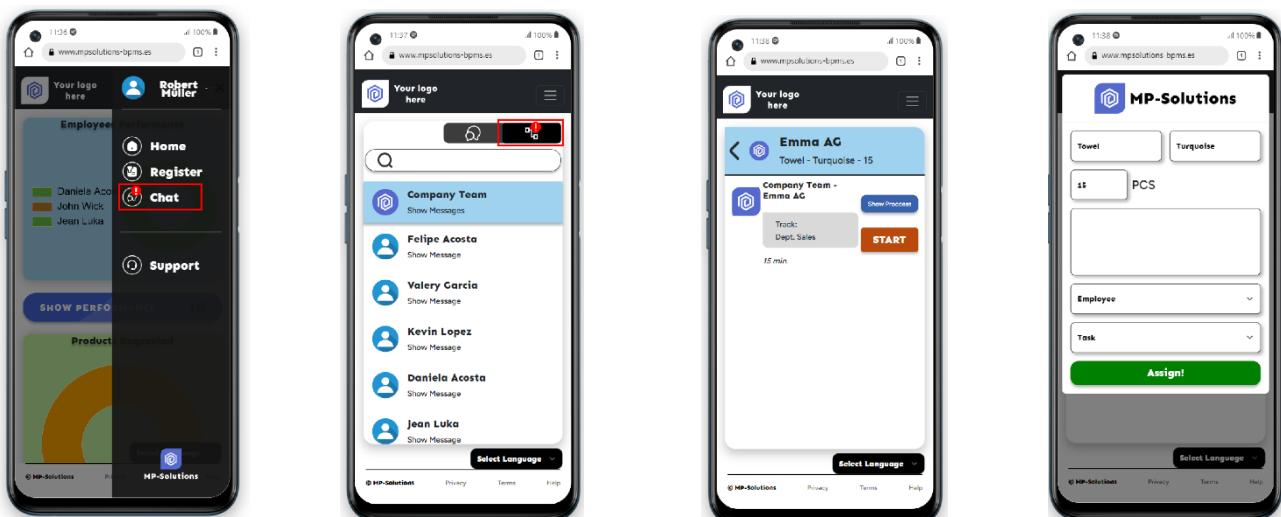
Select the **Show Performance** button - our employees will be displayed with their monthly performance..



3.6.3. Assign task to employee

When confirming a purchase, the order goes to the production department, so you will have to assign the purchase to an employee to prepare it.

Select **Chat - Track** - go to the new order and press **Start**, finally assign the employee and his respective task.



The sequence of four mobile screenshots illustrates the workflow:

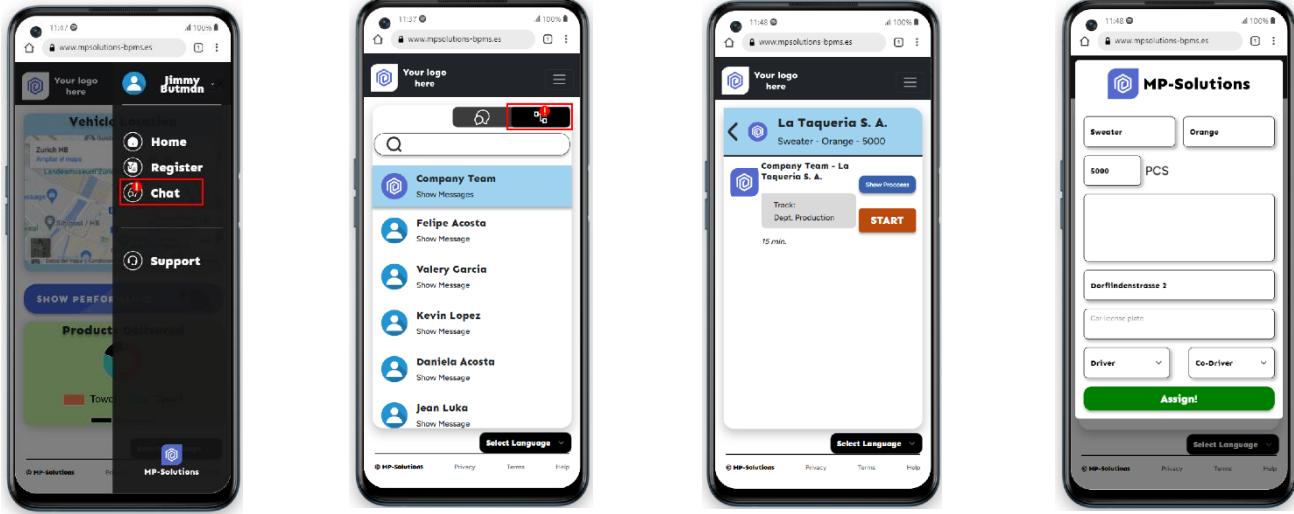
- Step 1:** The dashboard shows a 'SHOW PERFORMANCE' button highlighted in red. The 'Employee' section lists Daniela Acosta, John Wick, and Jean Luka.
- Step 2:** The 'Chat' section is selected, showing a search bar and a list of employees: Felipe Acosta, Valery Garcia, Kevin Lopez, Daniela Acosta, and Jean Luka. The 'Chat' button is highlighted in red.
- Step 3:** A specific task is selected for Daniela Acosta, showing details like 'Towel - Turquoise - 15' and a 'START' button.
- Step 4:** The task is assigned to Daniela Acosta, with fields for 'Employee' and 'Task' filled out, and a large green 'Assign!' button.



3.7. Logistics Department

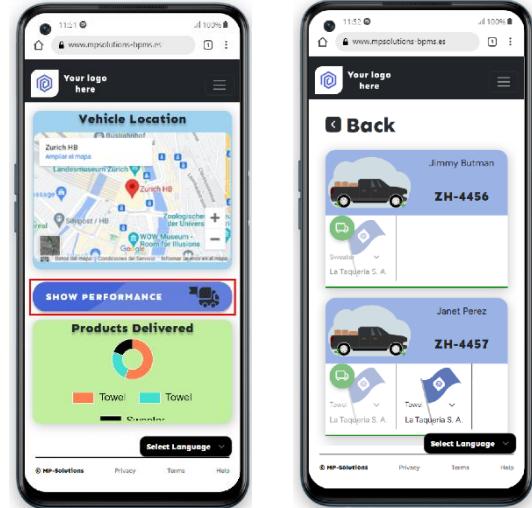
3.7.1. Assign routes

Open: **Menu - Chat - Track - Start** - enter the vehicle number with the name of the driver and passenger.



3.7.2. Viewing assigned

In the Dashboard view we press **Show Routes**, we will see the routes according to the vehicles entered.

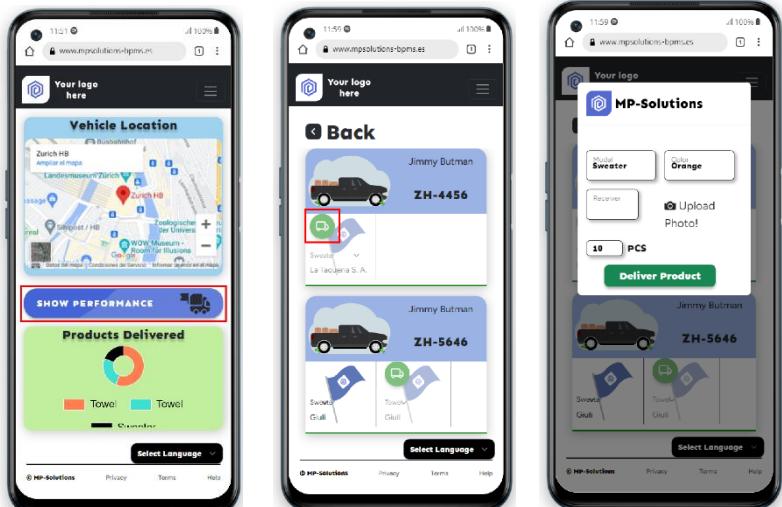


As logistics manager we will have access to all assigned routes and also the option to confirm the delivery, however, the driver (employee of the logistics department) is in charge of confirming the delivery.

3.7.3. Deliver order

Log in with the logistics department employee user, select **Show Routes**, only our assigned routes will appear.

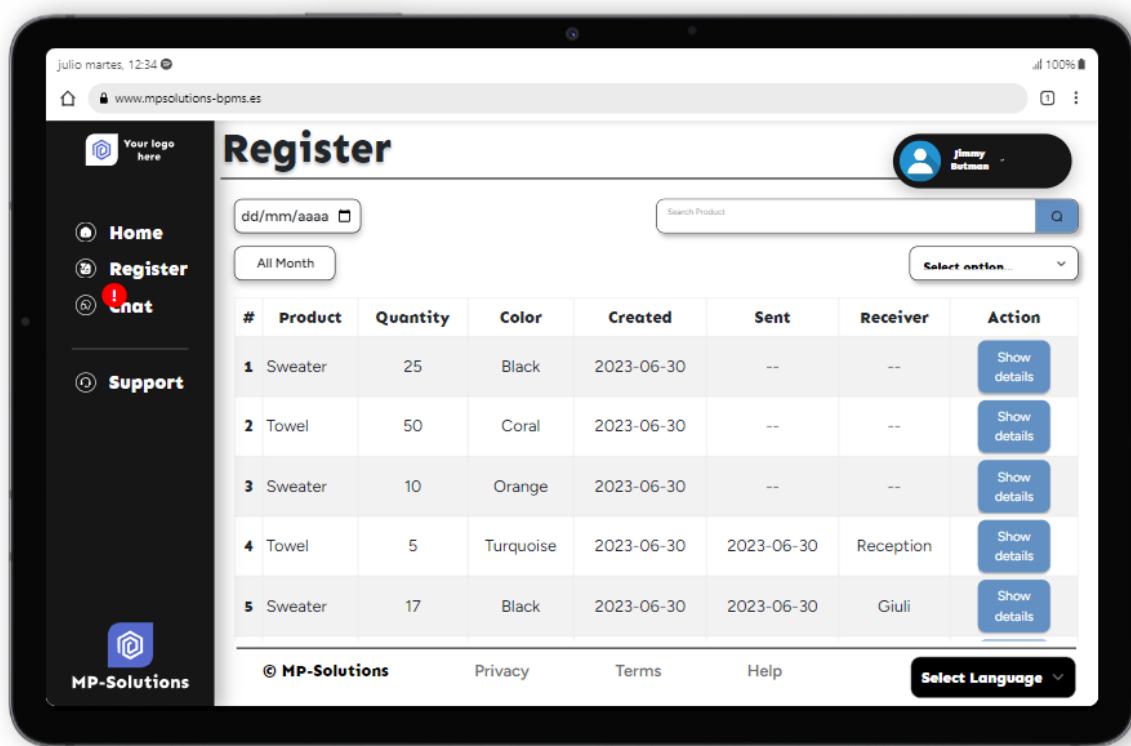
Select the green button that appears on each order and fill in the delivery form.



4. Register y Chat

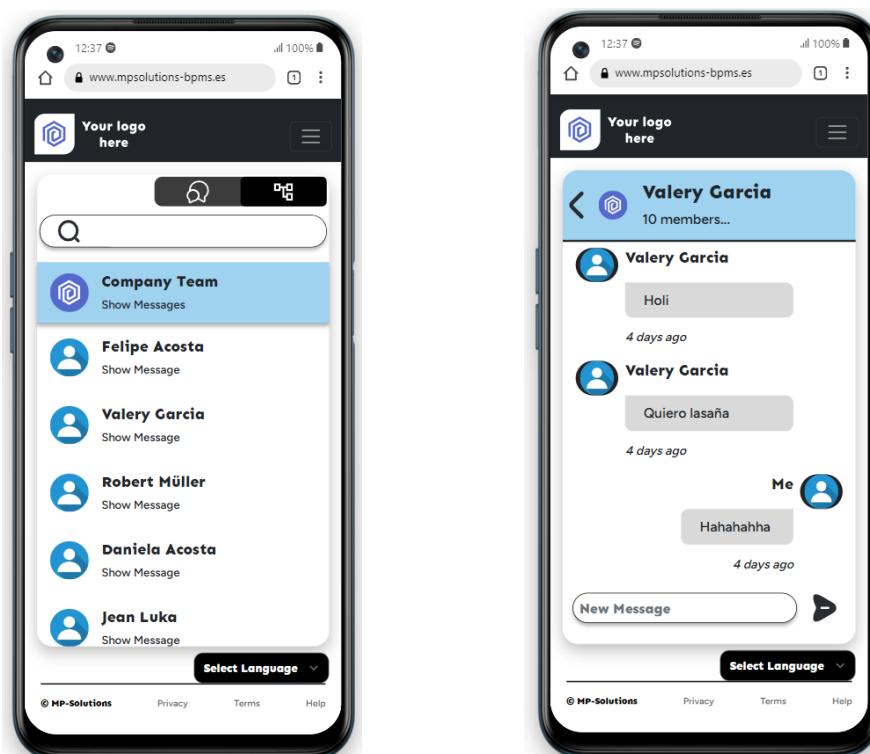
4.1. Register

The register of global orders is available for all departments except for the sales department, where each salesperson will have a unique record of their confirmed customers, while the production, logistics and warehouse departments will have a global record of all customers.



4.2. Chat

All employees will have a private chat and also a company group chat, on the other hand, the customer will not have access to the **Chat** option, only **Track**.





5. Credentials created by department

- **Client**

Name	Mauricio Costa
Email	client@hotmail.com
Password	123456789

- **Admin**

Name	Mayckell Perez
Email	admin@hotmail.com
Password	Admin12345

- **Sales Department**

Name	Felipe Acosta
Email	sale_1@hotmail.com
Password	123456789
Name	Valery Garcia
Email	sale_2@hotmail.com
Password	123456789

- **Warehouse**

Name	Kevin Lopez
Email	warehouse@hotmail.com
Password	123456789

- **Productions Department**

Name	Robert Müller (manager)
Email	production_manager@hotmail.com
Password	123456789
Name	Daniela Acosta (employee)
Email	production_employee_1@hotmail.com
Password	123456789
Name	Jean Luka (employee)
Email	production_employee_2@hotmail.com
Password	123456789
Name	John Wick (employee)
Email	production_employee_3@hotmail.com
Password	123456789

- **Logistics Department**

Name	Kevin Diaz
Email	logistic_manager@hotmail.com
Password	123456789
Name	Jimmy Butman (employee)
Email	logistic_employee_1@hotmail.com
Password	123456789
Name	Jimmy Butman (employee)
Email	logistic_employee_2@hotmail.com
Password	123456789