

Materials Management



A quick guide
showing how to use
the system and its
main functionalities

Customer Order

Orders

Stock

Production

Inventory

Purchases

Suppliers

Customer Orders

New Order

Order ID	Client	Date of Request	Status	Details
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materials-mgnt.herokuapp.com/orders

► To open a New Order click in NEW ORDER.

Customer Order

The screenshot shows a web application interface for managing customer orders. A sidebar on the left contains icons and labels for 'Orders', 'Stock', 'Products', 'Inventory', 'Purchases', and 'Suppliers'. The main header area is titled 'Customer Orders' and includes navigation arrows. A modal window titled 'New Order' is open, displaying a 'Customer Details' form. The form contains four input fields: 'First Name', 'Last Name', a phone number field containing '012 345 6789', and an email field containing 'email@domain.ie'. Below the fields are two buttons: 'CANCEL' and 'CONFIRM'. The 'CONFIRM' button is highlighted with a red rectangular border.

Customer Orders

New Order

Customer Details

First Name

Last Name


012 345 6789


email@domain.ie


CANCEL CONFIRM


- Add the Customer Details and click in CONFIRM.


Customer Order



Orders


Stock


Production


Inventory


Purchases


Suppliers

Customer Orders / New Order #0001

Customer: First Name Last Name
Phone: 012 345 6789
Email: email@domain.ie

Select Products

QTY


ADD


Product Name	Qty	Price	Total	Remove
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CONFIRM


- ▶ Select the products to be added in the New Order.


Customer Order



Orders


Stock


Production


Inventory


Purchases


Suppliers

Customer Orders / New Order #0001

Customer: First Name Last Name
Phone: 012 345 6789
Email: email@domain.ie

Select Products

Blue Pen (Crystal Barrel)
Red Pen (Crystal Barrel)
Black Pen (Crystal Barrel)
Blue Pen (Orange Barrel)
Red Pen (Orange Barrel)
Black Pen (Orange Barrel)
Blue Pen (Crystal Barrel) - 6 Pack
Mix 6 Pack - (Crystal Barrel)

Product

Remove

CONFIRM

- Select the products to be added in the New Order.

Customer Order

Orders

Stock

Production

Inventory

Purchases

Suppliers

Customer Orders / New Order #0001

Customer: First Name Last Name
Phone: 012 345 6789
Email: email@domain.ie

Black Pen (Crystal Barrel)

10

ADD

Product Name	Qty	Price	Total	Remove
Blue Pen (Crystal Barrel)	10	\$0.24	\$2.40	×
Black Pen (Crystal Barrel)	10	\$0.24	\$2.40	×

- ▶ Products can be added and removed from the order before confirmation

Customer Order

Orders

Stock

Production

Inventory

Purchases

Suppliers

Customer Orders / New Order #0001

10








ADD

Product Name	Qty	Price	Total	Remove
Blue Pen (Crystal Barrel)	10	\$0.24	\$2.40	✕
Black Pen (Crystal Barrel)	10	\$0.24	\$2.40	✕
Red Pen (Crystal Barrel)	10	\$0.24	\$2.40	✕

CONFIRM


- ▶ When all products are added to the New Order, click in CONFIRM.


Customer Order


<div> Orders</div> <div> Stock</div> <div> Production</div> <div> Inventory</div> <div> Purchases</div> <div> Suppliers</div>	Customer Orders				
	New Order				
	Order ID	Client	Date of Request	Status	Details
	0001	First Name Last Name	12/16/20	Pending	


- ▶ You will be redirected to a Customer Orders list;
- ▶ Click in the DETAILS icon for more information.


Customer Order



Orders


Stock





Production


Inventory


Purchases


Suppliers

Customer Orders / Order #0001

Item	Description	Quantity	In Stock	Details
1	Red Pen (Crystal Barrel)	10	0	
2	Black Pen (Crystal Barrel)	10	0	
3	Red Pen (Crystal Barrel)	10	0	

Missing items in stock

SHIP ORDER

- ▶ It will list all items in this order;
- ▶ The order can only be shipped if all products are available in STOCK.

Production Order

Orders

Stock

Production

Inventory

Purchases

Suppliers

Stock

Products Customer Orders Production Orders

Product Name	Product Type	In Stock	In Production	In Orders	Balance	Action
Blue Pen (Crystal Barrel) - 6 Pack	Pack	0	0	0	0	Request Production
Blue Pen (Crystal Barrel)	Product	0	0	0	0	Request Production
Mix 6 Pack - (Crystal Barrel)	Pack	0	0	0	0	Request Production
Black Pen (Crystal Barrel)	Product	0	0	10	-10	Request Production
Red Pen (Crystal Barrel)	Product	0	0	20	-20	Request Production
Blue Pen (Orange Barrel)	Product	0	0	0	0	Request Production
Red Pen (Orange Barrel)	Product	0	0	0	0	Request Production

- ▶ In Stock, it is possible to see the missing products in the stock balance;
- ▶ To open a new Production Order, click in Request Production









Production Order

The screenshot shows a software interface with a dark sidebar on the left containing icons and labels for 'Orders', 'Stock', 'Production', 'Inventory', 'Purchases', and 'Suppliers'. The main area is titled 'Stock' and contains a 'Production Order' dialog box. The dialog box has a title bar 'Production Order' and a white content area. Inside the dialog, the text 'Black Pen (Crystal Barrel)' is displayed above a numeric input field containing the value '30'. Below the input field are two buttons: 'CANCEL' and 'CONFIRM'. The 'CONFIRM' button is highlighted with a red rectangular border. In the background, a table is partially visible with columns for product names and quantities.

Product	Quantity	Unit	Price	Total	Req
Black Pen (Crystal Barrel)	30				
Blue Pen (Orange Barrel)	0				Req
Red Pen (Orange Barrel)	0				Req

- ▶ Select the product quantity and click in CONFIRM

Production Order

<div><div> Orders</div><div> Stock</div><div> Production</div><div> Inventory</div><div> Purchases</div><div> Suppliers</div></div>	<div>Production Orders</div> <div>StockProductsMaterials Request</div>						
	Order ID	Date of Request	Product	Quantity	Status	Action	Details
	0001	12/16/20	Black Pen (Crystal Barrel)	30	Pending	Pending Materials	
	0002	12/16/20	Red Pen (Crystal Barrel)	10	Pending	Pending Materials	

- ▶ You will be redirected to Production Orders list;
- ▶ Click in the Details icon for more information

Production Order

Production Orders / Production Order #0001

Production Orders Materials Request

Order ID	Date of Request	Product	Quantity	Status	Action
0001	12/16/20	Black Pen (Crystal Barrel)	30	Pending	Request Materials

Order History

1. Order created: 12/16/20 03:19:25

Product Materials

Material	Quantity	Details
Ball Point	30 x 1 un	
Black Cap	30 x 1 un	
Black End Plug	30 x 1 un	
Black Ink	30 x 5 ml	
Crystal Barrel	30 x 1 un	
Holding Pin	30 x 1 un	
Ink Tube	30 x 1 un	
Tip	30 x 1 un	

- ▶ Once the Production Order is opened, it is possible to request materials for production;
- ▶ Click in Request Materials to request materials from inventory.

Production Order

Production Orders / Production Order #0001

Production Orders Materials Request

Order ID	Date of Request	Product	Quantity	Status	Action
0001	12/16/20	Black Pen (Crystal Barrel)	30	Materials Requested	Pending Materials

Order History








1. Order created: 12/16/20 03:19:25
2. Materials Requested: 12/16/20 03:36:23

Product Materials

Material	Quantity	Details
Ball Point	30 x 1 un	


- ▶ The Order History will be updated;
- ▶ The Production Order status will be set to “Materials Requested”;
- ▶ No action can be taken until the Requested Materials are made available for production.


Materials Request


 Orders  Stock  Production  Inventory  Purchases  Suppliers	<i>Materials Request</i>					
	<i>Inventory Production Orders</i>					
	Request ID	Production Order Id	Product	Date of Request	Status	Details
	0001	0001	Black Pen (Crystal Barrel)	12/16/20	Pending	

- ▶ When the materials are requested, a new Material Request is opened;
- ▶ Click in the Details icon for details.


Materials Request


Orders

Stock

Production

Inventory

Purchases




Suppliers

Materials Request / Order ID #0001

Inventory Production Orders

Order ID	Date of Request	Product	Production Order Id	Status	Action
0001	12/16/20	Black Pen (Crystal Barrel)	0001	Pending	Pending Materials


Materials Requested


Material	Requested	In Inventory	Details
Ball Point	30	0	
Black Cap	30	0	
Black End Plug	30	0	


- ▶ It is possible to see the materials that the request is made of as well as the quantity available in Inventory;
- ▶ The Materials Request status is pending, no action can be taken until the level in inventory is higher than the requested for all materials.


- ▶ In Inventory list is possible to see all registered materials;
- ▶ The balance will be the quantity available in the inventory plus the quantity in purchase minus the amount requested;
- ▶ If the balance is negative, a New Purchase should be placed;
- ▶ Click in the Details icon for more information.


Inventory List



Orders


Stock


Production


Inventory


Purchases


Suppliers

Inventory / Blue Cap

PurchasesSuppliers

In Request	In Inventory	In Purchases	Balance
0 un	0 un	0 un	0 un

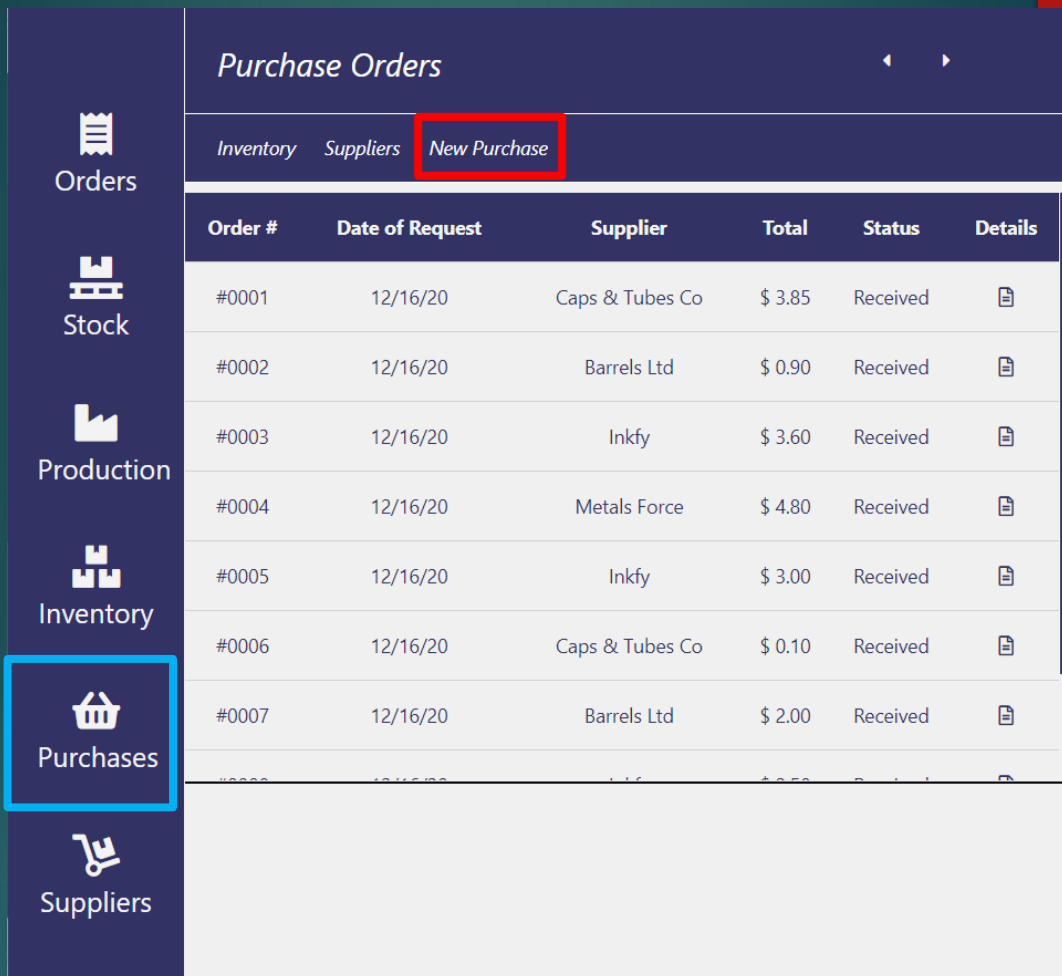
Suppliers

Caps & Tubes Co

+ Add Material to a New Supplier









- ▶ As in the previous screen, it is possible to see the quantity level for this material;
- ▶ The material can be assigned to any registered supplier.

Opening a new Purchase









Purchase Orders

Inventory Suppliers **New Purchase**

Order #	Date of Request	Supplier	Total	Status	Details
#0001	12/16/20	Caps & Tubes Co	\$ 3.85	Received	
#0002	12/16/20	Barrels Ltd	\$ 0.90	Received	
#0003	12/16/20	Inkfy	\$ 3.60	Received	
#0004	12/16/20	Metals Force	\$ 4.80	Received	
#0005	12/16/20	Inkfy	\$ 3.00	Received	
#0006	12/16/20	Caps & Tubes Co	\$ 0.10	Received	
#0007	12/16/20	Barrels Ltd	\$ 2.00	Received	
#0008	12/16/20	Inkfy	\$ 3.50	Received	

- ▶ In Purchases, you can see a list of Received and Pending Purchases;
- ▶ To make a new purchase, click in New Purchase.

Opening a new Purchase

 Orders  Stock  Production  Inventory  Purchases  Suppliers	Purchase Orders / New Purchase - Select Supplier				
	Inventory Suppliers				
	Select Supplier				
	Supplier	Phone	Email	Contact	Select
	Caps & Tubes Co	021 258 9876	contact@capstubes.com	Michael Cap	✓
	Barrels Ltd	022 259 9988	contact@barrelsltd.com	Crystal Lynn	✓
					✓
					✓

- Select the supplier that you want to buy the materials

Opening a new Purchase

The screenshot shows a software interface for opening a new purchase order. On the left is a dark purple sidebar with icons and labels for 'Orders', 'Stock', 'Production', 'Inventory', 'Purchases', and 'Suppliers'. The main area has a top header with 'Purchase Orders / New Purchase - Select Supplier / Caps & Tubes Co'. Below this is a sub-header with 'Inventory' and 'Suppliers'. A dashed box contains supplier information: 'Supplier: Caps & Tubes Co', 'Address: Tubes House, Caps Avenue, 123 - Cork, IE', 'Phone: 021 258 9876', 'Email: contact@capstubes.com', and 'Representative: Michael Cap'. A dropdown menu is open, listing items: 'Select New Item', 'Blue Cap', 'Red Cap', 'Black Cap', 'Blue End Plug', 'Red End Plug', 'Black End Plug', 'Link Tube', and 'Tip'. At the bottom, a table with two columns, 'Item' and 'Total', shows a 'Total' row with a value of '\$ 0.00'.

Item	Total
Total	\$ 0.00

- ▶ Select all the materials for this supplier for purchase;
- ▶ It can be purchase only materials that were previous registered in the system.

Opening a new Purchase

Orders

Stock

Production

Inventory

Purchases

Stock

Production

Inventory

Purchases

Suppliers

Purchase Orders / New Purchase - Select Supplier / Caps & Tubes Co

Inventory Suppliers

Supplier: Caps & Tubes Co
Address: Tubes House, Caps Avenue, 123 - Cork, IE
Phone: 021 258 9876
Email: contact@capstubes.com
Representative: Michael Cap

Blue Cap











30 un

ADD

Item Name	Qty	Price	Total	
Blue Cap	30 un	\$0.02 / un	\$0.60	×
Blue End Plug	30 un	\$0.005 / un	\$0.15	×
Red End Plug	30 un	\$0.005 / un	\$0.15	×
Black End Plug	30 un	\$0.0075 / un	\$0.22	×
Ink Tube	30 un	\$0.001 / un	\$0.03	×
Tip	30 un	\$0.02 / un	\$0.60	×
Total		\$ 3.85		

- Items can be added and removed before confirming the purchase.

Opening a new Purchase

 Orders  Stock  Production  Inventory  Purchases  Suppliers	Purchase Orders					
	Inventory Suppliers New Purchase					
	Order #	Date of Request	Supplier	Total	Status	Details
	#0001	12/16/20	Caps & Tubes Co	\$ 3.85	Received	
	#0002	12/16/20	Barrels Ltd	\$ 0.90	Pending	
	#0003	12/16/20	Inkfy	\$ 3.60	Pending	
	#0004	12/16/20	Metals Force	\$ 4.80	Pending	

- ▶ Once confirmed, you will be redirected to Purchase Orders list;
- ▶ The Purchase Order status will be pending;
- ▶ Click in the Details icon to see the Purchase details.

Opening a new Purchase

Orders

Stock

Production

Inventory

Purchases

Stock

Production

Inventory

Purchases

Suppliers

Purchase Orders / Purchase #0001

InventorySuppliersNew Purchase

Purchase Order: #0001
Date of Request: 12/16/20
Purchase Total: \$3.85
Status: Pending

Supplier: Caps & Tubes Co
Address: Tubes House, Caps Avenue, 123 - Cork, IE
Phone: 021 258 9876
Email: contact@capstubes.com
Representative: Michael Cap

Item	Description	Quantity	Price	Total
1	Blue Cap	30	\$ 0.02	\$ 0.60
2	Red Cap	30	\$ 0.03	\$ 0.90
3	Black Cap	30	\$ 0.04	\$ 1.20
4	Blue End Plug	30	\$ 0.005	\$ 0.15
5	Red End Plug	30	\$ 0.005	\$ 0.15
6	Black End Plug	30	\$ 0.0075	\$ 0.22
7	Ink Tube	30	\$ 0.001	\$ 0.03
8	Tip	30	\$ 0.02	\$ 0.60

RECEIVE ITEMS

- When the materials are received from the supplier, click in receive items to confirm and to send items to inventory.

Opening a new Purchase

Orders

Stock

Production

Inventory

Production

Inventory

Purchases

Suppliers

Purchase Orders / Purchase #0001

InventorySuppliersNew Purchase

Purchase Order: #0001

Date of Request: 12/16/20

Purchase Total: \$3.85

Status: Pending

Supplier: Caps & Tubes Co

Address: Tubes House, Caps Avenue, 123 - Cork, IE

Phone: 021 258 9876

Email: contact@capstubes.com

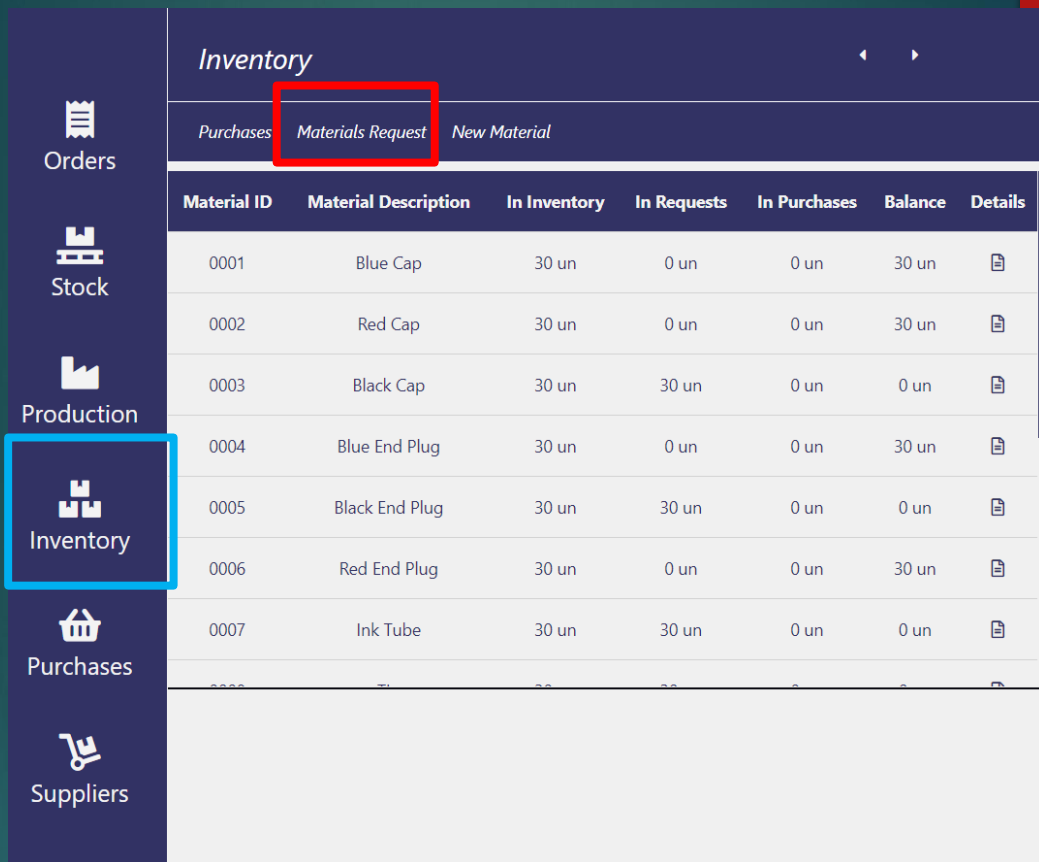
Representative: Michael Cap








Item	Description	Quantity	Price	Total
1	Blue Cap	30	\$ 0.02	\$ 0.60
2	Red Cap	30	\$ 0.03	\$ 0.90
3	Black Cap	30	\$ 0.04	\$ 1.20
4	Blue End Plug	30	\$ 0.005	\$ 0.15
5	Red End Plug	30	\$ 0.005	\$ 0.15
6	Black End Plug	30	\$ 0.0075	\$ 0.22
7	Ink Tube	30	\$ 0.001	\$ 0.03
8	Tip	30	\$ 0.02	\$ 0.60

Items Received

- ▶ When you click in Receive Items, the Purchase Order status will change to Received and inventory will be updated.

Approve Request



Inventory						
<i>Purchases Materials Request New Material</i>						
Material ID	Material Description	In Inventory	In Requests	In Purchases	Balance	Details
0001	Blue Cap	30 un	0 un	0 un	30 un	
0002	Red Cap	30 un	0 un	0 un	30 un	
0003	Black Cap	30 un	30 un	0 un	0 un	
0004	Blue End Plug	30 un	0 un	0 un	30 un	
0005	Black End Plug	30 un	30 un	0 un	0 un	
0006	Red End Plug	30 un	0 un	0 un	30 un	
0007	Ink Tube	30 un	30 un	0 un	0 un	

- ▶ Back to inventory, you can see now the balance updated;
- ▶ Click in Materials Request to make it available for Production.

Approve Request

Materials Request / Order ID #0001

Inventory *Production Orders*

Order ID	Date of Request	Product	Production Order Id	Status	Action
0001	12/16/20	Black Pen (Crystal Barrel)	0001	Pending	Approve Request

Materials Requested

Material	Requested	In Inventory	Details
Ball Point	30	60	
Black Cap	30	30	
Black End Plug	30	30	

- ▶ When all items requested are available in Inventory, you can Approve the Materials Request for production;
- ▶ Click in Approve Request.

Approve Request

The screenshot displays a software interface for managing materials requests. On the left is a dark purple sidebar with icons and labels for 'Orders', 'Stock', 'Production', 'Inventory', 'Purchases', and 'Suppliers'. The main content area has a title bar 'Materials Request / Order ID #0001' with navigation arrows. Below the title bar are two tabs: 'Inventory' and 'Production Orders', with the latter highlighted by a red box. A table below the tabs lists request details, with its header and first row highlighted by a red box. The table has columns: Order ID, Date of Request, Product, Production Order Id, Status, and Action. The first row shows Order ID 0001, Date 12/16/20, Product Black Pen (Crystal Barrel), Production Order Id 0001, Status 'In production', and Action 'Request Approved'. Below this table is a section titled 'Materials Requested' containing a sub-table. The sub-table has columns: Material, Requested, In Inventory, and Details. The 'Requested' and 'In Inventory' columns are highlighted by a red box. The sub-table lists three materials: Ball Point, Black Cap, and Black End Plug, each with a 'Requested' value of 30 and an 'In Inventory' value of 30, 0, and 0 respectively. Each row in the sub-table also has a 'Details' link icon.

Materials Request / Order ID #0001

Inventory **Production Orders**

Order ID	Date of Request	Product	Production Order Id	Status	Action
0001	12/16/20	Black Pen (Crystal Barrel)	0001	In production	Request Approved

Materials Requested

Material	Requested	In Inventory	Details
Ball Point	30	30	
Black Cap	30	0	
Black End Plug	30	0	

- ▶ It will change the Material Request status to “In Production”;
- ▶ The inventory will be updated with the new level for each material;
- ▶ Click in Production Orders to see status.

Execute Production Order

Production Orders / Production Order #0001

Production Orders Materials Request

Order ID	Date of Request	Product	Quantity	Status	Action
0001	12/16/20	Black Pen (Crystal Barrel)	30	Materials Received	Finish Production

Order History

1. Order created: 12/16/20 03:19:25
2. Materials Requested: 12/16/20 03:36:23
3. Materials Request Approved: 12/16/20 04:29:35

Product Materials

Material	Quantity	Details
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- ▶ When a specific order is selected, you can see that with the materials received, it is possible to finish production;
- ▶ Click in Finish Production to execute the order.

Execute Production Order

The screenshot displays a software interface for managing production orders. On the left is a dark purple sidebar with icons and labels for 'Orders', 'Stock', 'Production', 'Inventory', 'Purchases', and 'Suppliers'. The main content area has a top header 'Production Orders / Production Order #0001' with navigation arrows. Below this is a sub-header with 'Production Orders' and 'Materials Request' tabs. A table lists production orders with columns: Order ID, Date of Request, Product, Quantity, Status, and Action. The first row shows Order ID 0001, Date 12/16/20, Product 'Black Pen (Crystal Barrel)', Quantity 30, Status 'Production Finished', and Action 'Order Completed'. This row is highlighted with a red border. Below the table is an 'Order History' section with a list of four steps: 1. Order created: 12/16/20 03:19:25, 2. Materials Requested: 12/16/20 03:36:23, 3. Materials Request Approved: 12/16/20 04:29:35, and 4. Production Finished: 12/16/20 04:32:16. At the bottom is a 'Product Materials' section with a table header containing 'Material', 'Quantity', and 'Details'.

Production Orders / Production Order #0001

Production Orders Materials Request

Order ID	Date of Request	Product	Quantity	Status	Action
0001	12/16/20	Black Pen (Crystal Barrel)	30	Production Finished	Order Completed

Order History

1. Order created: 12/16/20 03:19:25
2. Materials Requested: 12/16/20 03:36:23
3. Materials Request Approved: 12/16/20 04:29:35
4. Production Finished: 12/16/20 04:32:16

Product Materials

Material	Quantity	Details
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- ▶ It will change the Production Order status, as well as the order history;
- ▶ The finished products are sent to stock.

Ship Order









Customer Orders / Order #0001

Item	Description	Quantity	In Stock	Details
1	Red Pen (Crystal Barrel)	10	30	
2	Black Pen (Crystal Barrel)	10	30	
3	Red Pen (Crystal Barrel)	10	30	

SHIP ORDER

- ▶ When all products are available in Stock, it is possible to ship the order;
- ▶ Click in Ship Order to ship the order.

Ship Order

<div> Orders</div> <div> Stock</div> <div> Production</div> <div> Inventory</div> <div> Purchases</div> <div> Suppliers</div>	Customer Orders / Order #0001			
	Item	Description	Quantity	Details
	1	Red Pen (Crystal Barrel)	10	
	2	Black Pen (Crystal Barrel)	10	
Order Shipped				

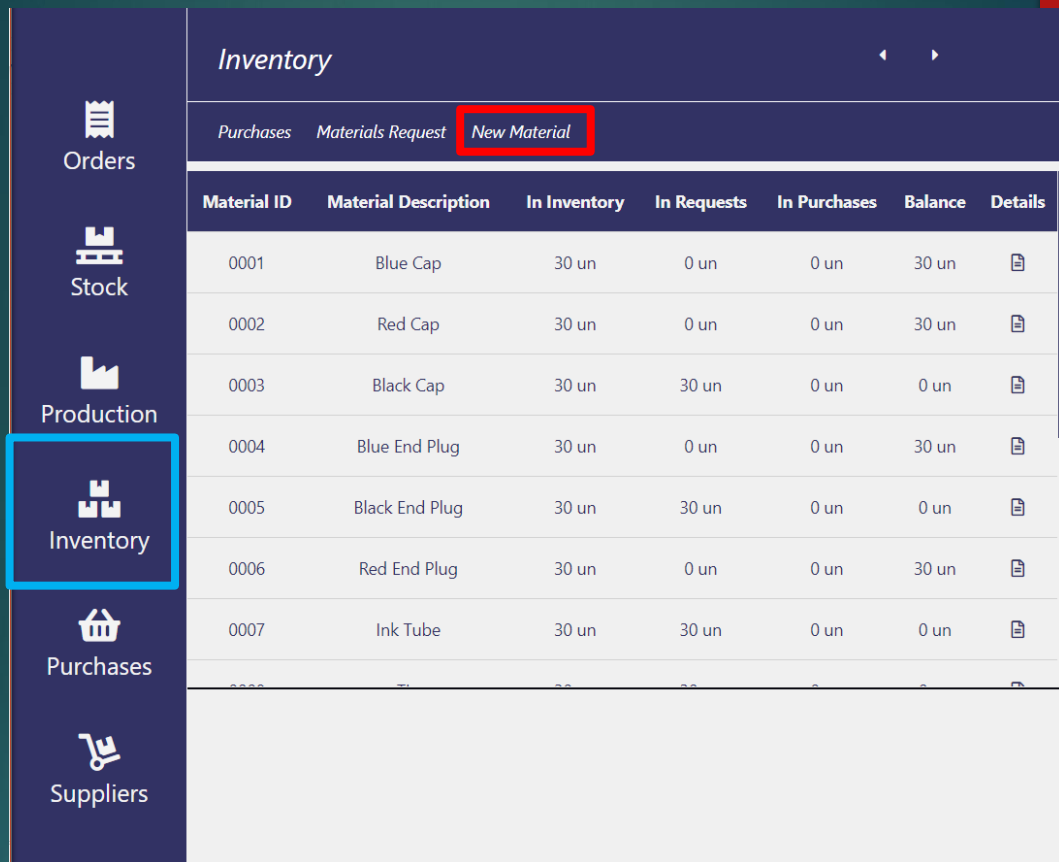
- ▶ Order Shipped;
- ▶ The stock balance will be updated as it has now less 10 products of each item in the order.

Ship Order

<div>Orders</div> <div>Stock</div> <div>Production</div> <div>Inventory</div> <div>Purchases</div> <div>Suppliers</div>	Stock						
	Products Customer Orders Production Orders						
	Product Name	Product Type	In Stock	In Production	In Orders	Balance	Action
	Blue Pen (Crystal Barrel) - 6 Pack	Pack	0	0	0	0	Request Production
	Blue Pen (Crystal Barrel)	Product	0	0	0	0	Request Production
	Mix 6 Pack - (Crystal Barrel)	Pack	0	0	0	0	Request Production
	Black Pen (Crystal Barrel)	Product	20	0	0	20	Request Production
	Red Pen (Crystal Barrel)	Product	10	0	0	10	Request Production
	Blue Pen (Orange Barrel)	Product	0	0	0	0	Request Production
	Red Pen (Orange Barrel)	Product	0	0	0	0	Request Production
	Blue Pen (Orange Barrel)	Product	0	0	0	0	Request Production
	Red Pen (Orange Barrel)	Product	0	0	0	0	Request Production

- The stock list is updated;

Register New Material

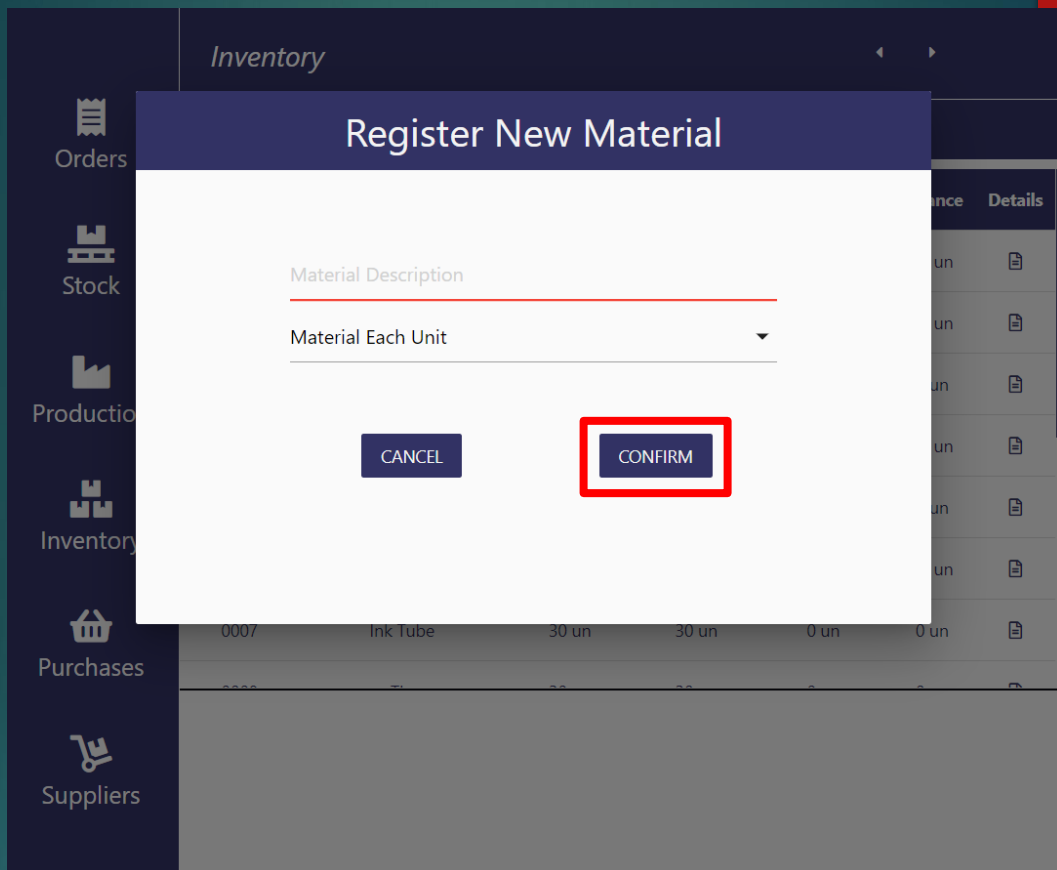


The screenshot displays the 'Inventory' management interface. On the left is a vertical sidebar with icons and labels for 'Orders', 'Stock', 'Production', 'Inventory' (highlighted with a blue box), 'Purchases', and 'Suppliers'. The main area is titled 'Inventory' and contains three tabs: 'Purchases', 'Materials Request', and 'New Material' (highlighted with a red box). Below the tabs is a table with the following data:

Material ID	Material Description	In Inventory	In Requests	In Purchases	Balance	Details
0001	Blue Cap	30 un	0 un	0 un	30 un	
0002	Red Cap	30 un	0 un	0 un	30 un	
0003	Black Cap	30 un	30 un	0 un	0 un	
0004	Blue End Plug	30 un	0 un	0 un	30 un	
0005	Black End Plug	30 un	30 un	0 un	0 un	
0006	Red End Plug	30 un	0 un	0 un	30 un	
0007	Ink Tube	30 un	30 un	0 un	0 un	

- ▶ Back to Inventory, you can Register New Materials;
- ▶ Click in Register New Material.

Register New Material



The screenshot shows a software interface with a dark sidebar on the left containing icons and labels for 'Orders', 'Stock', 'Production', 'Inventory', 'Purchases', and 'Suppliers'. The main area is titled 'Inventory' and contains a modal dialog box titled 'Register New Material'. Inside the dialog, there are two input fields: 'Material Description' and 'Material Each Unit' with a dropdown arrow. At the bottom of the dialog are two buttons: 'CANCEL' and 'CONFIRM'. The 'CONFIRM' button is highlighted with a red rectangular border. In the background, a table is partially visible with columns for material details and a 'Details' link for each row.

	Material Description	Material Each Unit	Details			
0007	Ink Tube	30 un	30 un	0 un	0 un	Details
0008		30 un	30 un	0 un	0 un	Details
0009		30 un	30 un	0 un	0 un	Details
0010		30 un	30 un	0 un	0 un	Details
0011		30 un	30 un	0 un	0 un	Details
0012		30 un	30 un	0 un	0 un	Details

- ▶ Enter a description for the new material and its unit;
- ▶ Click in CONFIRM.
- ▶ The material price and supplier can be assigned in the materials detail screen.

Register New Product

<div>Orders</div> <div>Stock</div> <div>Production</div> <div>Inventory</div> <div>Purchases</div> <div>Suppliers</div>	Production Orders						
	Stock Products Materials Request						
	Order ID	Date of Request	Product	Quantity	Status	Action	Details
	0001	12/16/20	Black Pen (Crystal Barrel)	30	Production Finished	Order Completed	
	0002	12/16/20	Red Pen (Crystal Barrel)	10	Production Finished	Order Completed	
	0003	12/16/20	Red Pen (Crystal Barrel)	20	Production Finished	Order Completed	

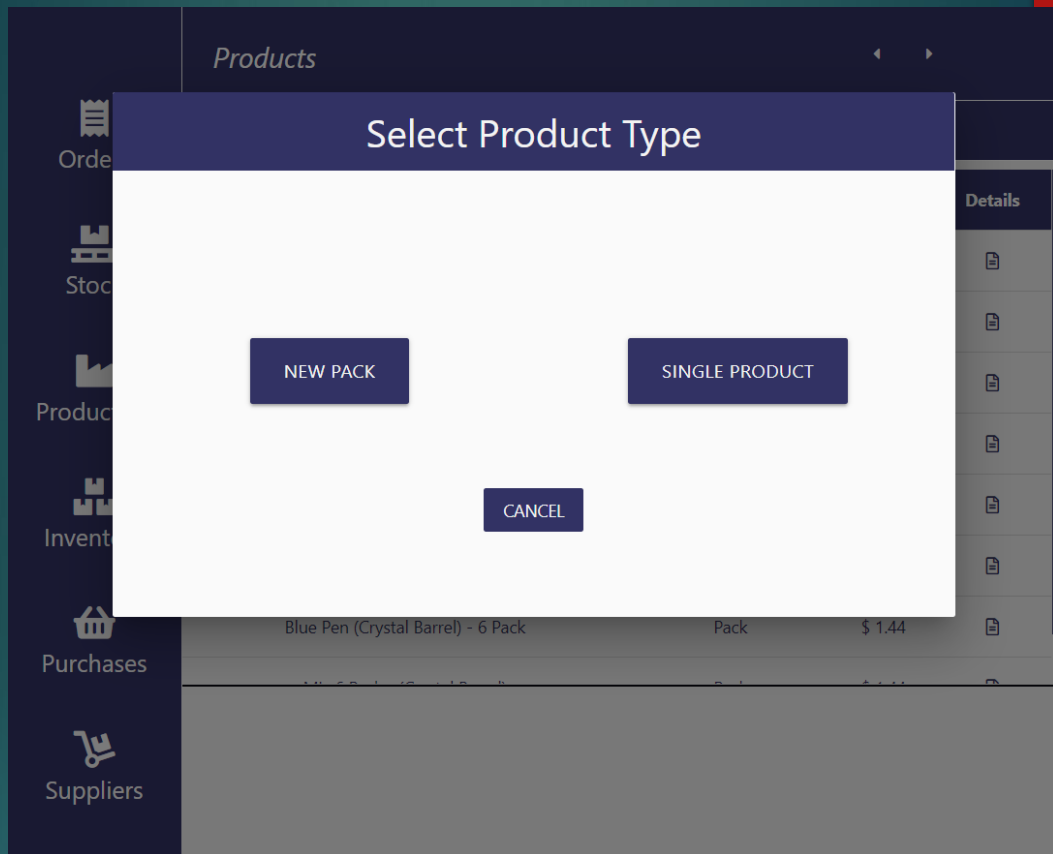
- To register a New Product, go to Production screen and click in Products

Register New Product

<div>Orders</div> <div>Stock</div> <div>Production</div> <div>Inventory</div> <div>Purchases</div> <div>Suppliers</div>	Products			
	Stock	Production Orders	Materials Request	New Product
	Product Name	Product Type	Cost	Details
	Blue Pen (Crystal Barrel)	Product	\$ 0.24	
	Red Pen (Crystal Barrel)	Product	\$ 0.24	
	Black Pen (Crystal Barrel)	Product	\$ 0.24	
	Blue Pen (Orange Barrel)	Product	\$ 0.24	
	Red Pen (Orange Barrel)	Product	\$ 0.24	
	Black Pen (Orange Barrel)	Product	\$ 0.24	
	Blue Pen (Crystal Barrel) - 6 Pack	Pack	\$ 1.44	

- ▶ You will see a list of all registered products;
- ▶ Click in New Product to register a New Product.

Register New Product



- ▶ Select the product type:
- ▶ It can be a Single Product (made of materials) or a Pack, that can contain multiple products. A pack of three blue pens, for example.

Register New Product

Orders

Stock

Production

Inventory

Purchases

Suppliers

Products / New Product

New Pack

Product Details

Product Name

Product Materials

Select Material

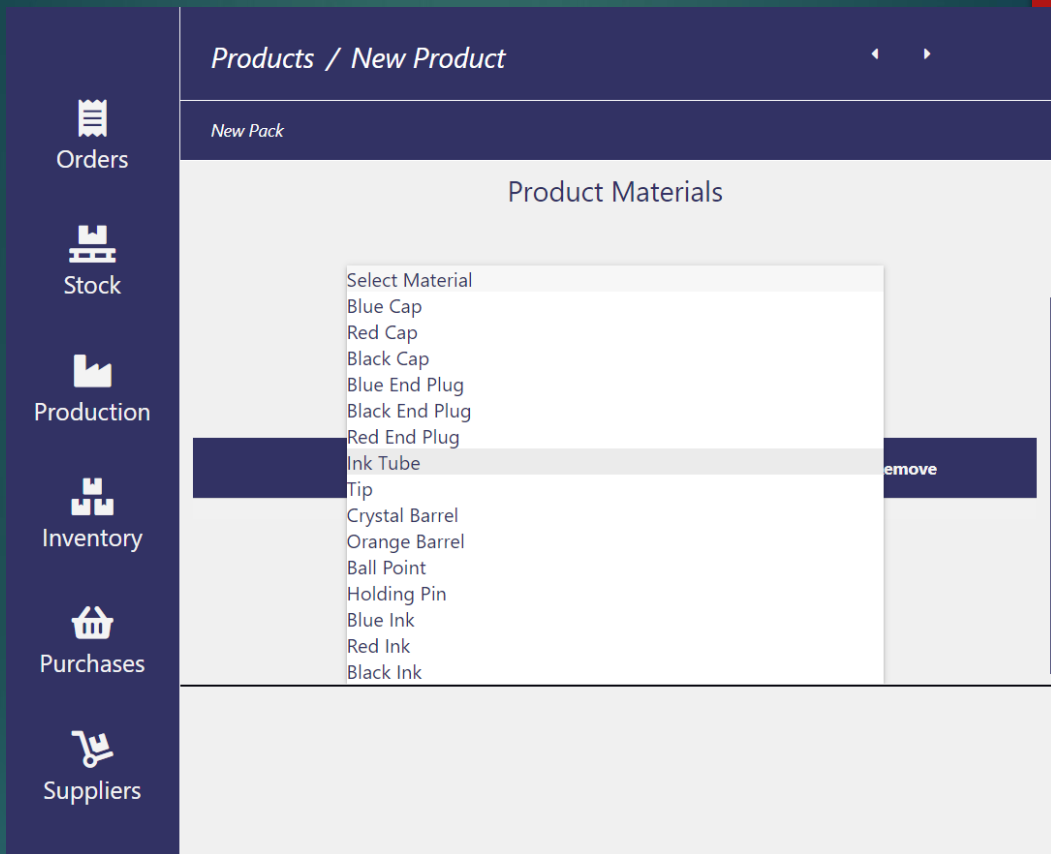
QTY

ADD

Product Name	Qty	Remove
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- Provide a name to the Product and select its materials or products.

Register New Product



- ▶ For a Single Product, select the materials;
- ▶ Only materials registered can be chosen.

Register New Product

Products / New Product

New Pack

Blue Cap

5 un

ADD

Product Name	Qty	Remove
Blue Cap	5 un	x

CONFIRM

- ▶ Choose the materials and click in confirm to add the new product;
- ▶ To add a new pack instead, click in New Pack

Register New Product

Orders

Stock

Production

Inventory

Purchases

Suppliers

Products / New Pack

New Product

Product Details

Blue Pen (Crystal Barrel) - 10 Box

Blue Pen (Crystal Barrel)











10

ADD

Product Name	Qty	Cost	Total	Remove
Blue Pen (Crystal Barrel)	10	\$0.24	\$2.40	✕

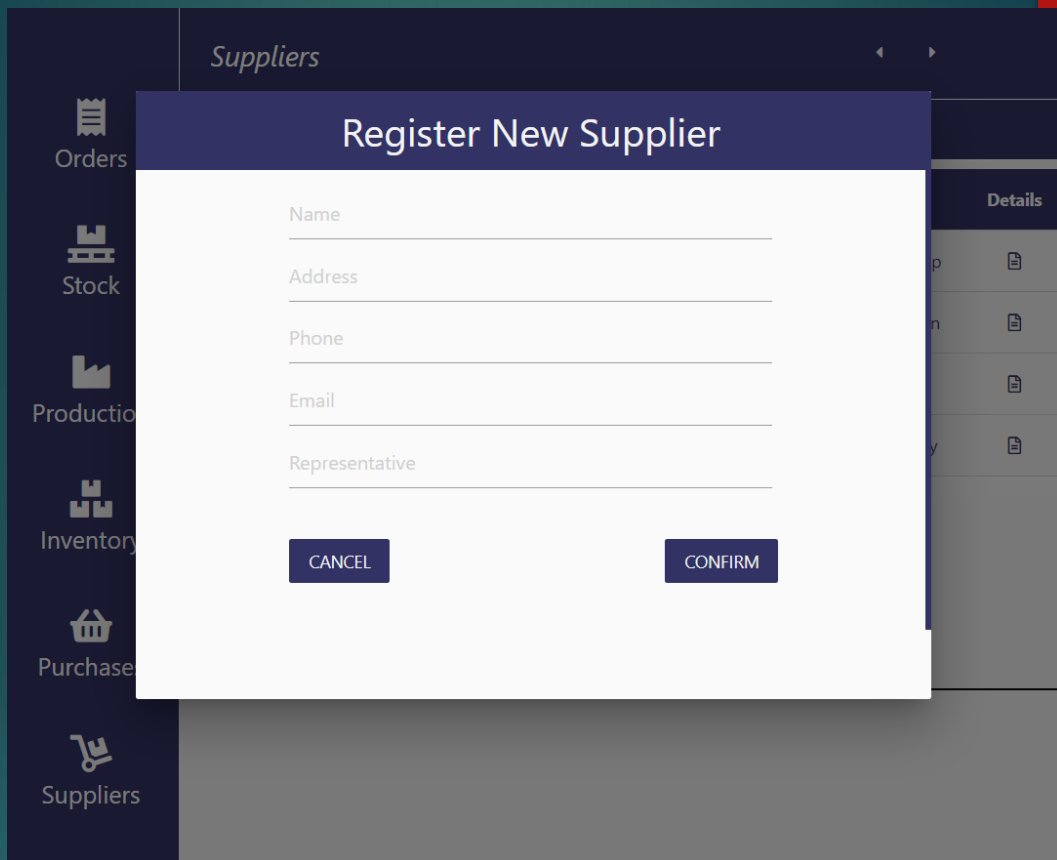
- ▶ Give a name to the pack;
- ▶ Select the products that will made up the pack;
- ▶ Click in confirm to add the new pack.

Suppliers

 Orders  Stock  Production  Inventory  Purchases  Suppliers	Suppliers				
	Inventory Purchases New Supplier				
	Supplier	Phone	Email	Contact	Details
	Caps & Tubes Co	021 258 9876	contact@capstubes.com	Michael Cap	
	Barrels Ltd	022 259 9988	contact@barrelsltd.com	Crystal Lynn	
	Inkfy	022 221 9785	contact@inkfy.com	Paul Tank	
	Metals Force	027 271 2576	contact@metalsforce.com	Jenny Alloy	

- ▶ Click in the Suppliers Icon to see the suppliers list;
- ▶ Click in New Supplier to add a New Supplier;
- ▶ Click in Details icon to see Supplier details

Register a New Supplier



The screenshot shows a software interface with a dark sidebar on the left containing icons and labels for 'Orders', 'Stock', 'Production', 'Inventory', 'Purchase', and 'Suppliers'. The 'Suppliers' section is active. A modal window titled 'Register New Supplier' is centered on the screen. The modal has a title bar and contains five text input fields labeled 'Name', 'Address', 'Phone', 'Email', and 'Representative'. At the bottom of the modal are two buttons: 'CANCEL' and 'CONFIRM'. The background of the application shows a 'Suppliers' table with a 'Details' column and several rows of data.

Suppliers	
Details	
p	
n	
y	

- Add the information of the new supplier and click in CONFIRM.

Suppliers

Suppliers / Caps & Tubes Co

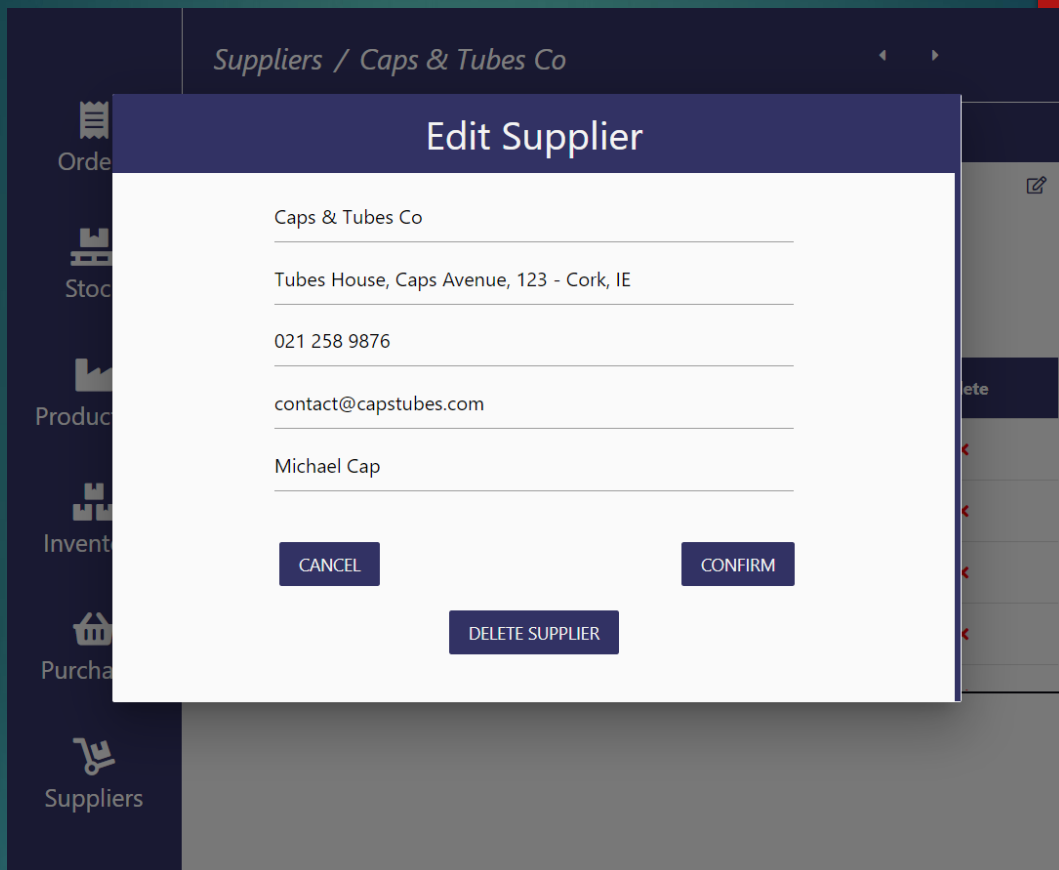
Inventory Purchases

Caps & Tubes Co
Tubes House, Caps Avenue, 123 - Cork, IE
021 258 9876
contact@capstubes.com
Representative: Michael Cap

Description	Price	Delete
Blue Cap	\$0.02 / un	×
Red Cap	\$0.03 / un	×
Black Cap	\$0.04 / un	×
Blue End Plug	\$0.005 / un	×

- ▶ Supplier info can be edited as well as the items of each supplier can be deleted.

Suppliers



The screenshot shows a web application interface with a dark sidebar on the left containing icons for Order, Stock, Product, Inventory, Purchase, and Suppliers. The main header area displays 'Suppliers / Caps & Tubes Co'. A modal window titled 'Edit Supplier' is open, containing the following information:

Caps & Tubes Co

Tubes House, Caps Avenue, 123 - Cork, IE

021 258 9876

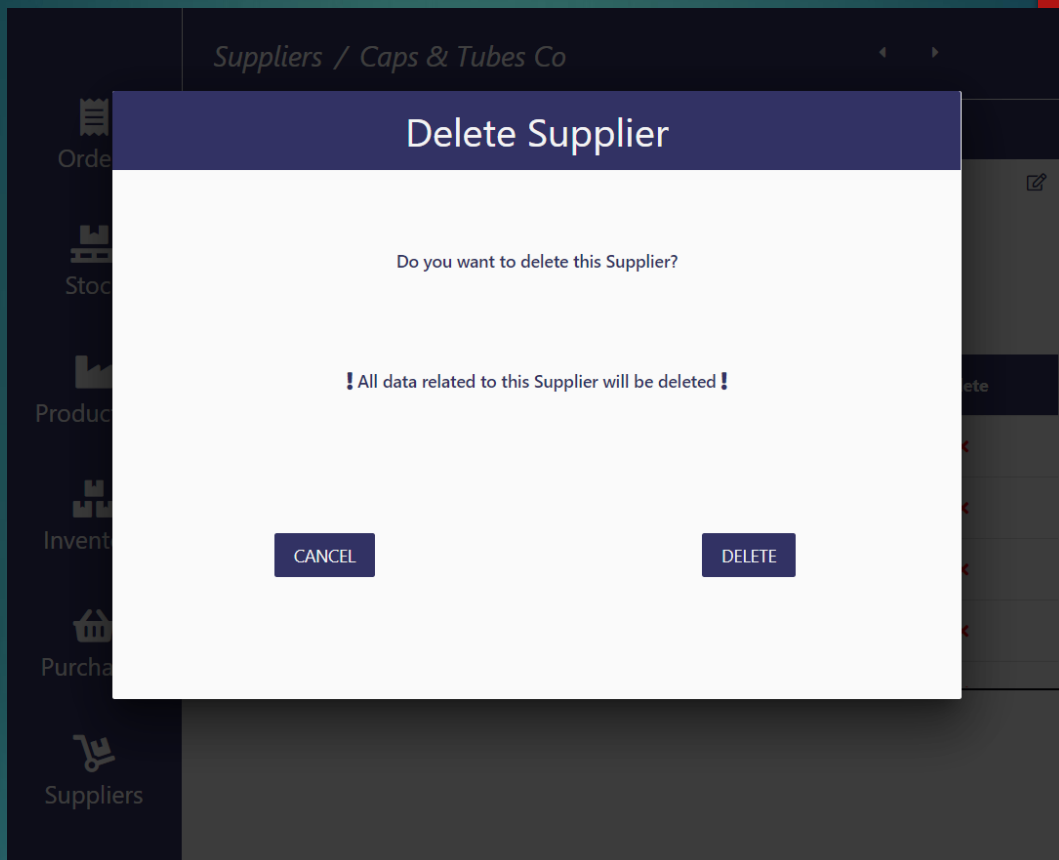
contact@capstubes.com

Michael Cap

At the bottom of the modal are three buttons: 'CANCEL', 'CONFIRM', and 'DELETE SUPPLIER'.

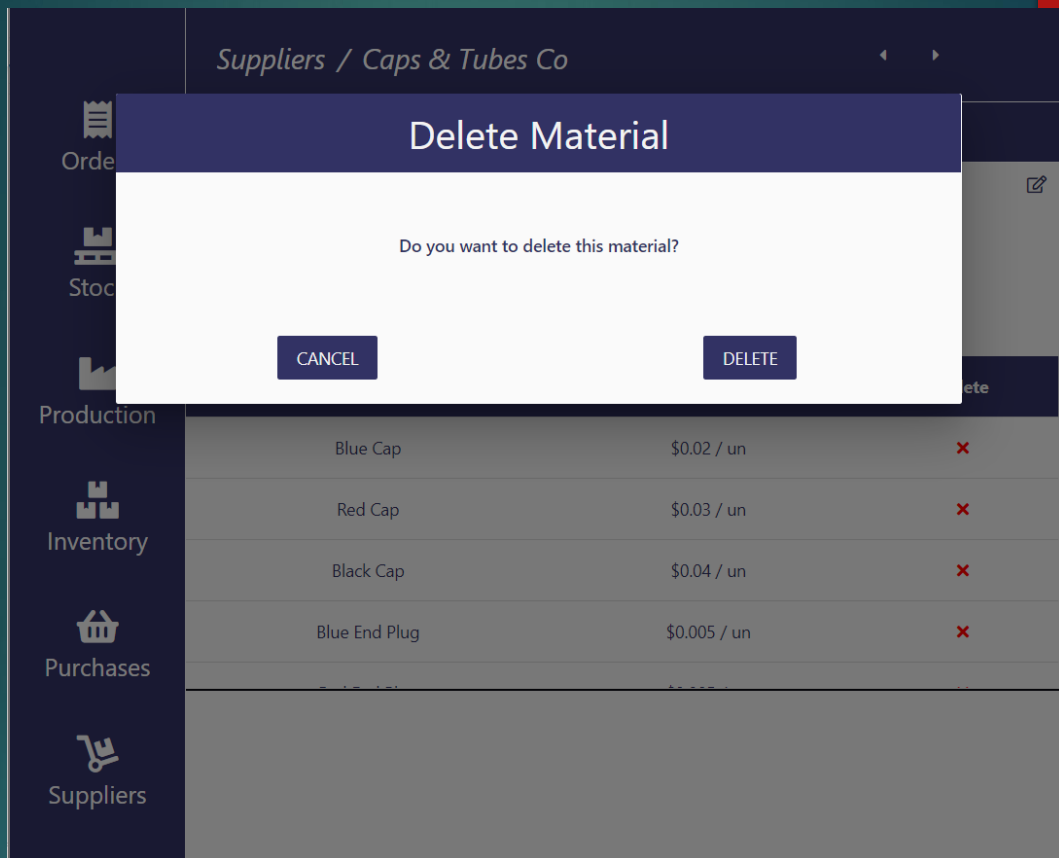
- ▶ Edit Supplier Info and click in confirm;
- ▶ If you want to delete the supplier ("not recommended") click in Delete Supplier

Suppliers



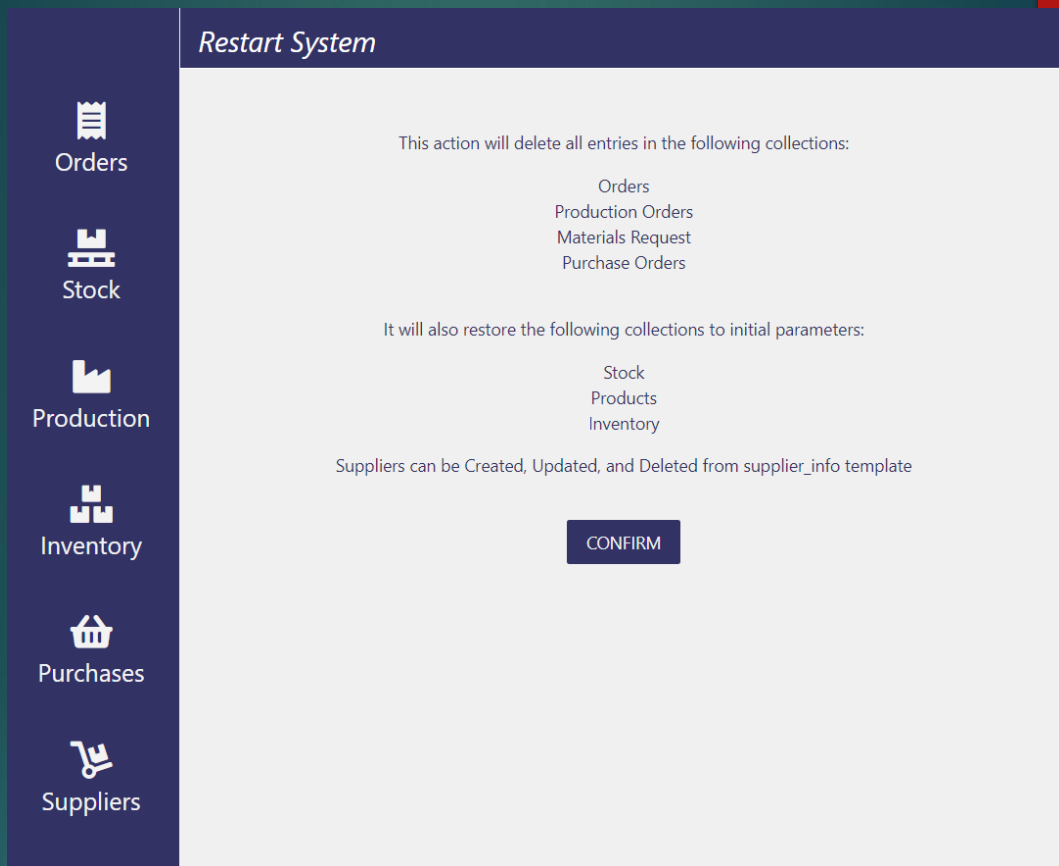
- ▶ If you click in delete supplier, a modal confirmation will appear for confirmation;
- ▶ Click in DELETE to confirm or click in CANCEL to keep the supplier registered in the system.

Suppliers



- If you click to delete the item from the supplier, it will also appear a message to confirm.

Reseting the system



- ▶ Well, as everything is a simulation, there is here a button to restore the parameters once pre-defined.
- ▶ It was not set options to cancel, delete, edit the other documents as they are interconnected, it would break the system or require load of conditions that were not able to be covered in this version.
- ▶ Just go to https://materials-mgmt.herokuapp.com/zz_restart_system