Dated on 8th March 2024

SCOPE OF WORK AND DESIGN MANUFACTURING DATA ACQUISITION AND MANAGEMENT SYSTEM **(MaDAMS)**

ZENIG AUTO SDN. BHD.

TechCapital Resources Sdn Bhd (679831-D)
C-G-5, BLOCK C, UPM-MTDC Technology Centre III,
Universiti Putra Malaysia,
43400 Serdang, Selangor Darul Ehsan
Phone: 03-89578395 Email: info@t-robot.my
SST Registration Number: B16-1808-31020334

TABLE OF CONTENTS

FLOW OF SYSTEM

NOTE: This is the overview of how overall system will be. The document is a scope of work which consist expected information or parameters, layout and behavior as per discussed to be implemented by development team.

The attached images are design reference to show how it will be implemented in the system. Minor changes in front end which will not affect the backend (database changes/ customization) and timeline are acceptable as it required further feasibility analysis before implementation. However, please do reach management team in case of any queries regards to this type of changes.

1 Login Page

1. User have to enter username or email address and password to login.

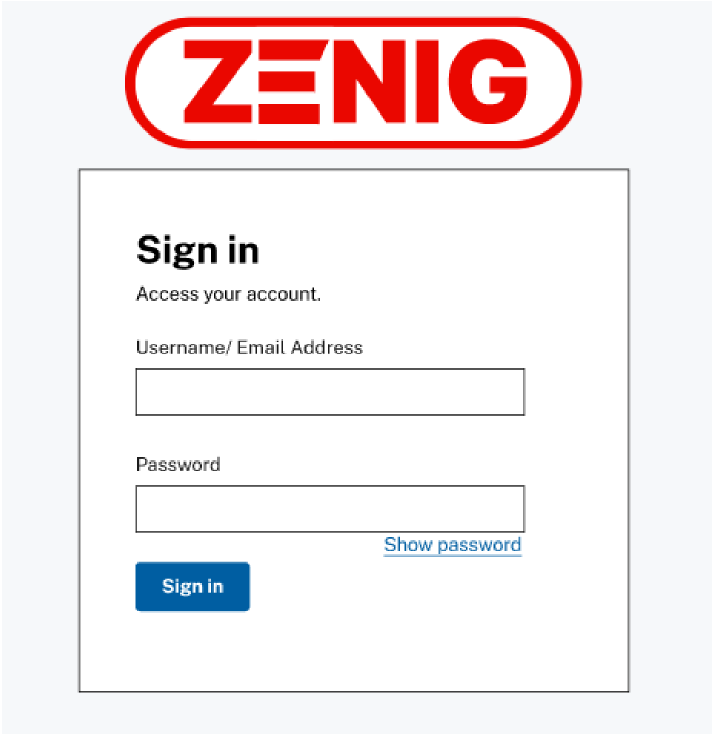


Figure 1: Login page

2 ERP

At the side navigation menu, there are four main menu which are **ERP**, **MES**, **WMS** and **Setting**. Under "**ERP**" module, it consists of several sub-module which are BD and PVD.

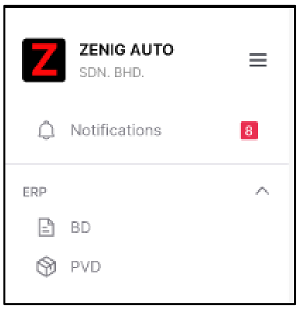


Figure 2: ERP Menu

2.1 Business Development (BD)

2.1.1 Quotation

A. List

1. It shows list of records.
2. User can create new form for quotation.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   - i. Sr#
   - ii. Quotation Ref No.
   - iii. Customer Name
   - iv. Date
   - v. Status
   - vi. Action

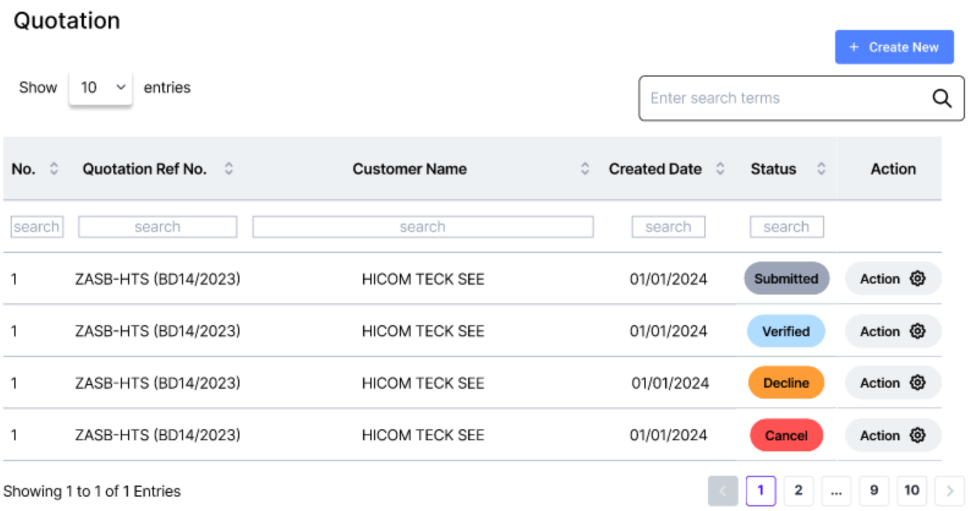


Figure 3: Quotation list

1. By default, all list allow user to filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.

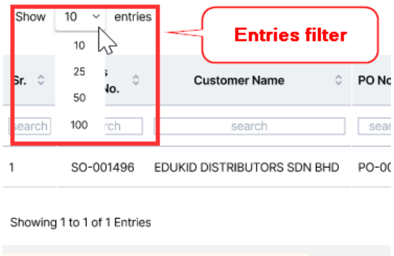


Figure 4: Standard entries filter

Figure 5: Standard pagination.

2. In Action, user will have option dropdown to:
   i. View
   ii. Preview
   iii. Edit
   iv. Verify
   v. Delete

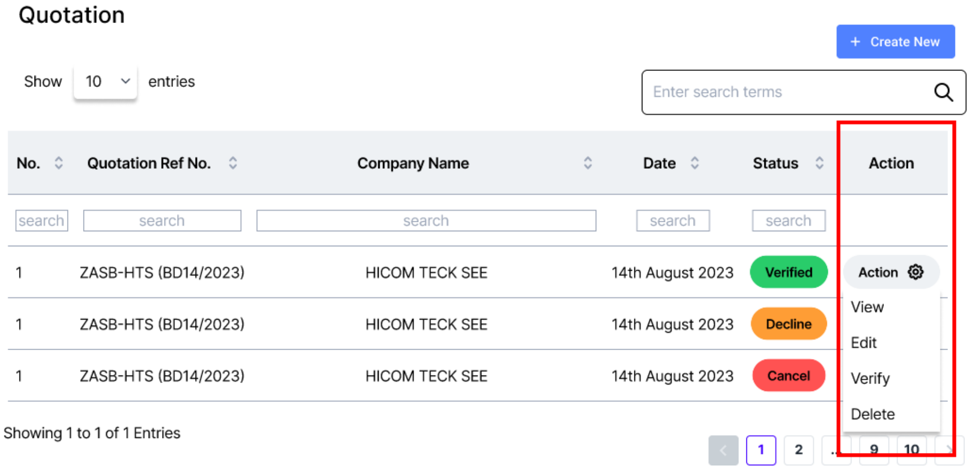


Figure 6: Standard action list

3. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
4. By default, all list allow user to search based on each column or at main search field at the top.

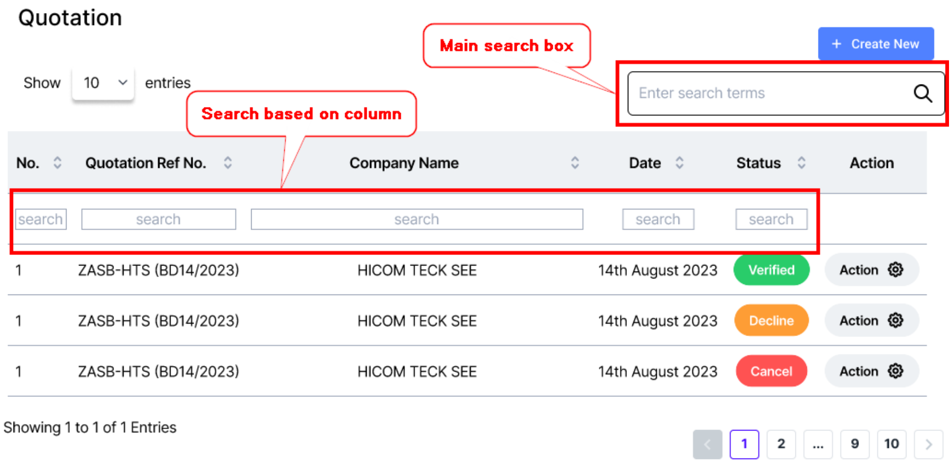


Figure 31: Standard search box

5. By default, all list allow user to sort column in increasing or decreasing order.
6. User can click "Create" button to create new record.

Create new

1. User fill in the create form:

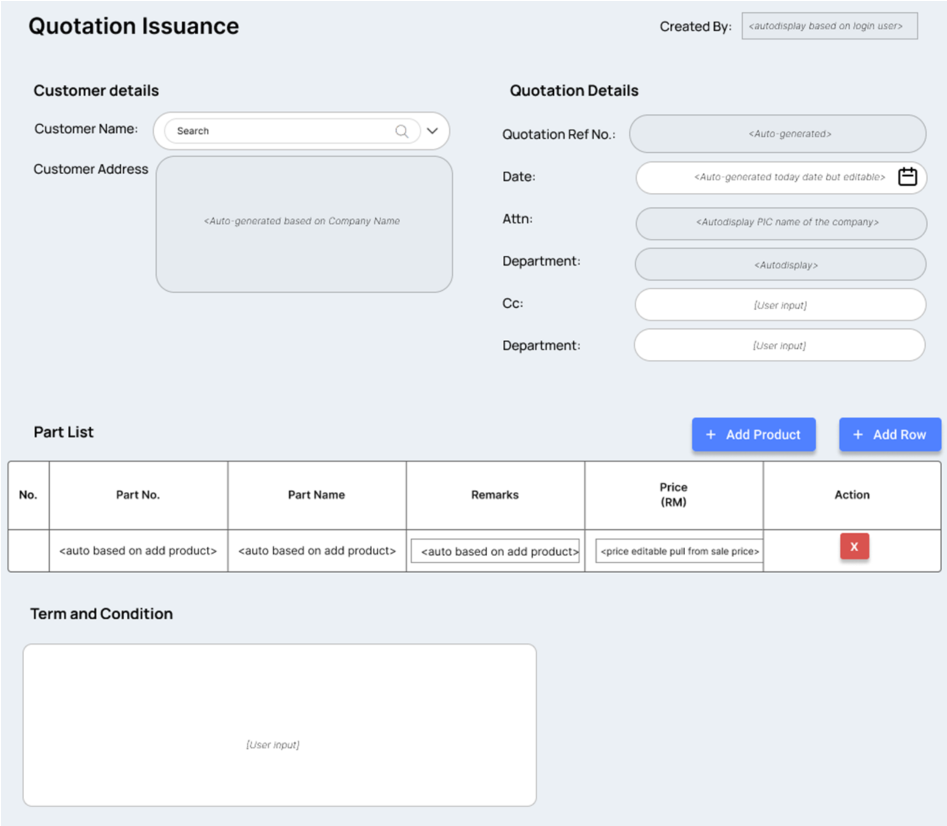


Figure 7: Information key-in

i. Created By: auto display current logged in user
ii. Customer Details section consist of:
   - **Customer Name:** dropdown with search
   - **Customer Address:** auto display based on selected Company Name
iii. Quotation Details section consist of:
   - **Quotation Ref No.:** auto running no. [Format: QT/running no./yyy]
   - **Date:** auto current date but editable
   - **Attn:** auto display based on PIC name of the selected Company Name
   - **Department:** auto display based on PIC name of the selected Company Name
   - **CC:** text input
   - **Department:** text input
iv. Part List table consist of:
   - **Add Product**: button to add product
   - **Add Row** button to add new empty row

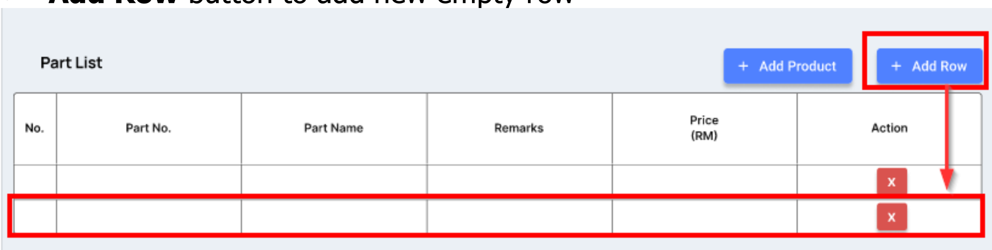


Figure 8: After click "Add Row" button

- **No.**
- **Part No:** auto based on added product
- **Part Name:** auto based on added product
- **Remarks:** text input
- **Price (RM):** auto based on Sale Price of the Part No. but editable
- **Action**: Remove button

v. Term and Condition: textarea

2. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

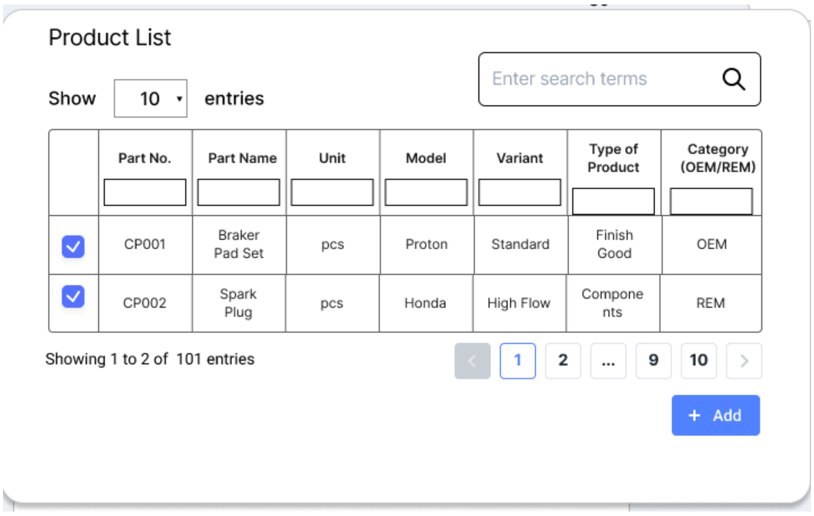


Figure 9: Search Product to Add

i. The modal consists of:
   - Entries filter
   - Search box
   - Search based on column
   - Checkbox for each product
   - Part No.: auto display from Product database
   - Part Name: auto display from Product database
   - Unit: auto display from Product database
   - Model: auto display from Product database
   - Variance: auto display from Product database
   - Type of Product: auto display from Product database
   - Category: auto display from Product database
   - Pagination
   - Add: button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table as shown below:

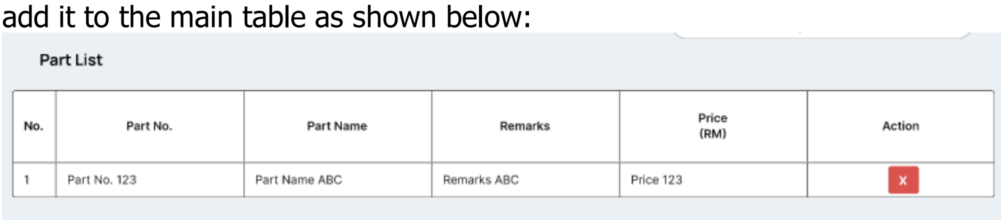


Figure 491: New product is added into the table

3. At the bottom there are several buttons:
    - <Save> button to save and the record will be listed in the main list.
    - <Back to list> button is on the bottom left of the page if user want to cancel.

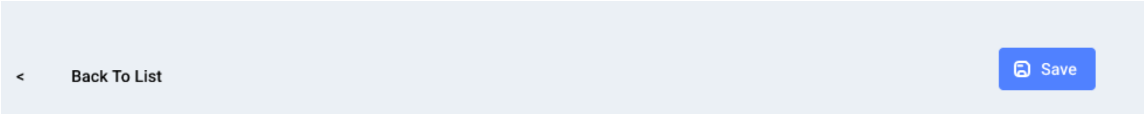


Figure 10: Standard Save and Back button

4. The status can be divided into:
    - Submitted (Grey) – after quotation is created
    - Verified (Light Blue) - if user click verify button.
    - Declined (Orange) - if user click decline button.
    - Cancelled (Red) - if user click cancel button.

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Display all information from the latest saved state in read-only mode.
2. Preview button to view the quotation letter.

<u>Action: Preview</u>

1. View quotation letter.

<u>Action: Edit</u>

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Quotation Ref No. cannot be edited.
4. Save and Back button is available in the bottom-right of the page.
5. User cannot edit anymore once verified.
6. Preview button to view the quotation letter.

<u>Action: Delete</u>

1. User can delete a record.

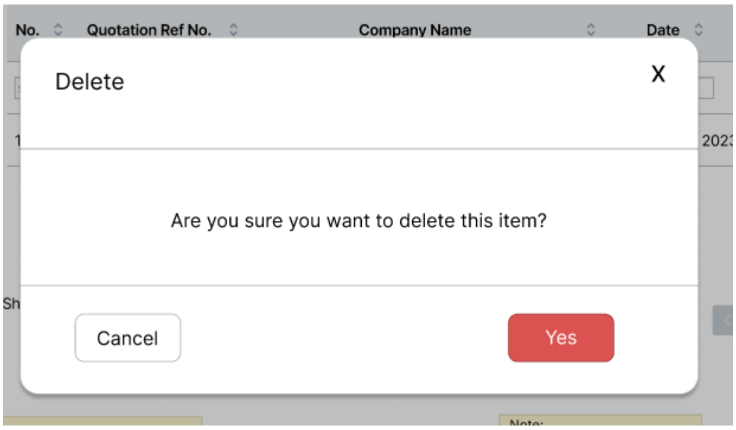
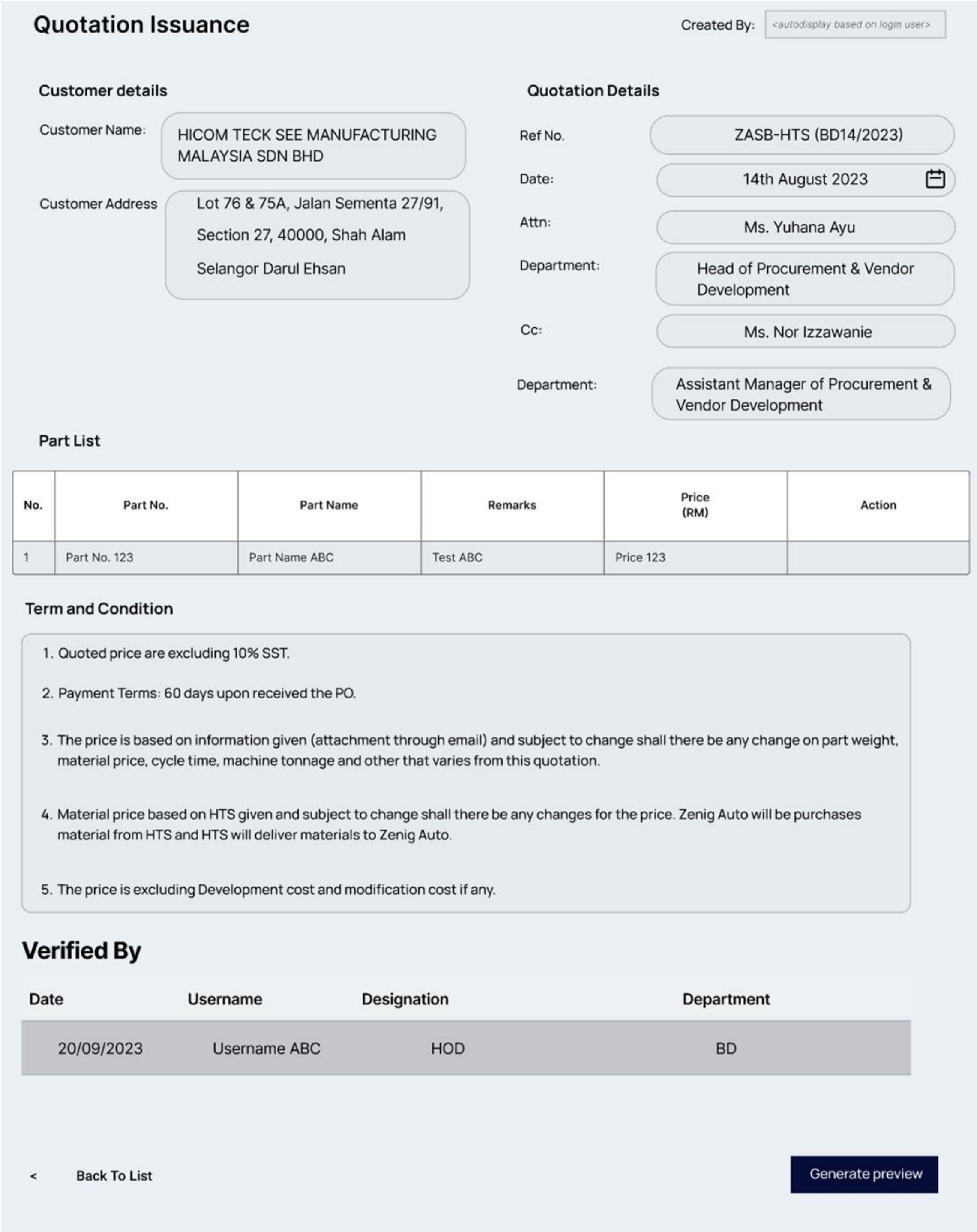


Figure 11: Delete action.



Quotation Issuance

Created By: <autodisplay based on login user>

Customer details

Customer Name: HICOM TECK SEE MANUFACTURING MALAYSIA SDN BHD

Customer Address: Lot 76 & 75A, Jalan Sementa 27/91, Section 27, 40000, Shah Alam Selangor Darul Ehsan

Quotation Details

Ref No.: ZASB-HTS (BD14/2023)

Date: 14th August 2023

Attn: Ms. Yuhana Ayu

Department: Head of Procurement & Vendor Development

Cc: Ms. Nor Izzawanie

Department: Assistant Manager of Procurement & Vendor Development

Part List

No.	Part No.	Part Name	Remarks	Price (RM)	Action
1	Part No. 123	Part Name ABC	Test ABC	Price 123	

Term and Condition

1. Quoted price are excluding 10% SST.
2. Payment Terms: 60 days upon received the PO.
3. The price is based on information given (attachment through email) and subject to change shall there be any change on part weight, material price, cycle time, machine tonnage and other that varies from this quotation.
4. Material price based on HTS given and subject to change shall there be any changes for the price. Zenig Auto will be purchases material from HTS and HTS will deliver materials to Zenig Auto.
5. The price is excluding Development cost and modification cost if any.

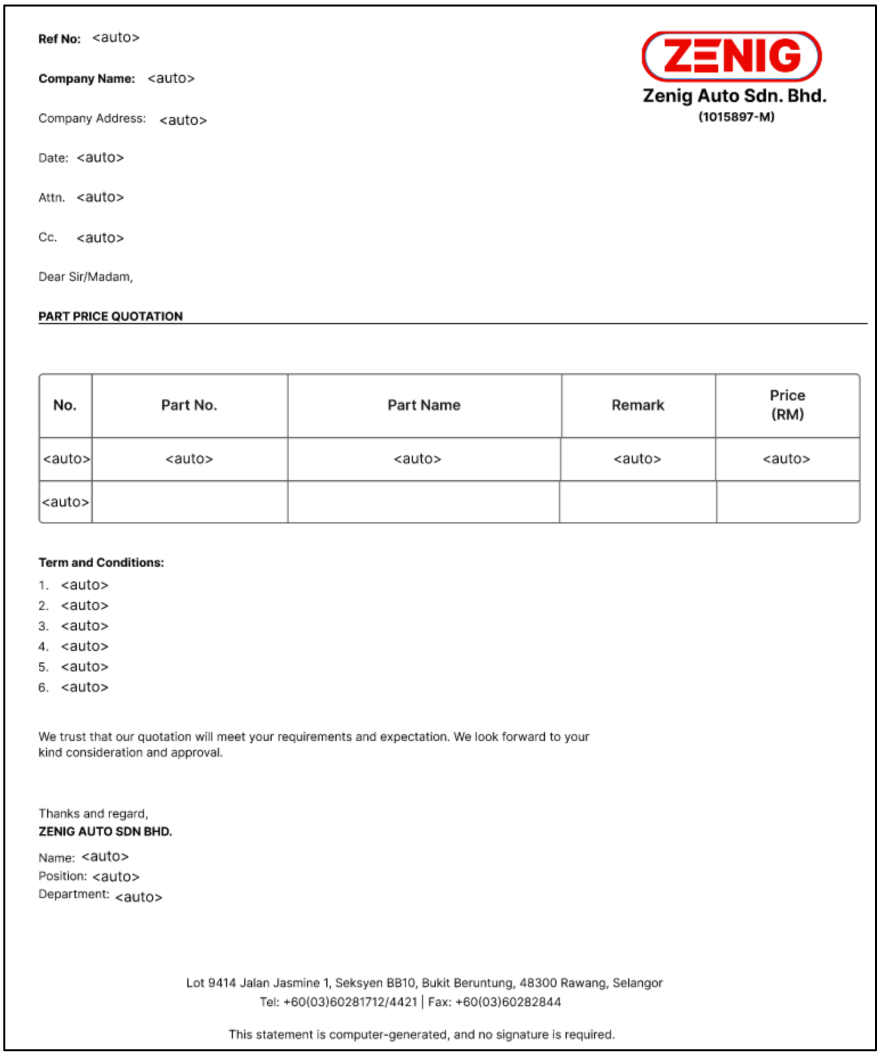
Verified By

Date	Username	Designation	Department
20/09/2023	Username ABC	HOD	BD

< Back To List

Generate preview

Figure 12: View form



Ref No: <auto>

Company Name: <auto>

Company Address: <auto>

Date: <auto>

Attn. <auto>

Cc. <auto>

ZENIG
Zenig Auto Sdn. Bhd.
(1015897-M)

Dear Sir/Madam,

PART PRICE QUOTATION

No.	Part No.	Part Name	Remark	Price (RM)
<auto>	<auto>	<auto>	<auto>	<auto>
<auto>				

Term and Conditions:
1. <auto>
2. <auto>
3. <auto>
4. <auto>
5. <auto>
6. <auto>

We trust that our quotation will meet your requirements and expectation. We look forward to your kind consideration and approval.

Thanks and regard,
ZENIG AUTO SDN BHD.
Name: <auto>
Position: <auto>
Department: <auto>

Lot 9414 Jalan Jasmine 1, Seksyen BB10, Bukit Beruntung, 48300 Rawang, Selangor
Tel: +60(03)60281712/4421 | Fax: +60(03)60282844

This statement is computer-generated, and no signature is required.

Figure 13: Quotation preview

<u>Action: Verify</u>

1. Display all information from the latest saved state in read-only mode.
2. Preview button to view the quotation letter.
3. Verify, Decline and Cancel button is available at the bottom of the page.

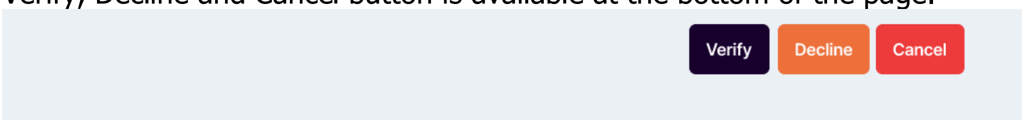


Figure 14: Verify section.

4. Once user click <Verify>, Date, Username, Designation and department will be auto display based on the current date and user information.

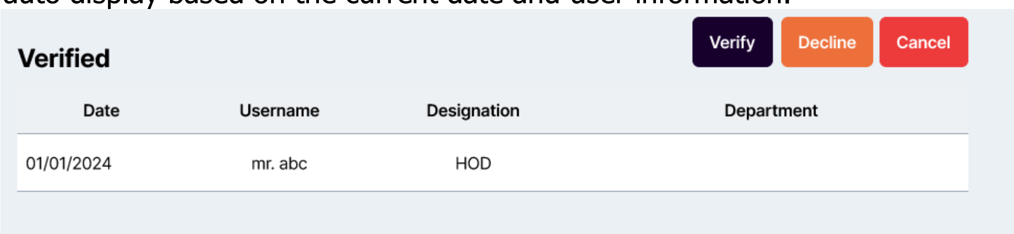


Figure 15: After click verify button

5. Click <Save> for the changes to be applied.

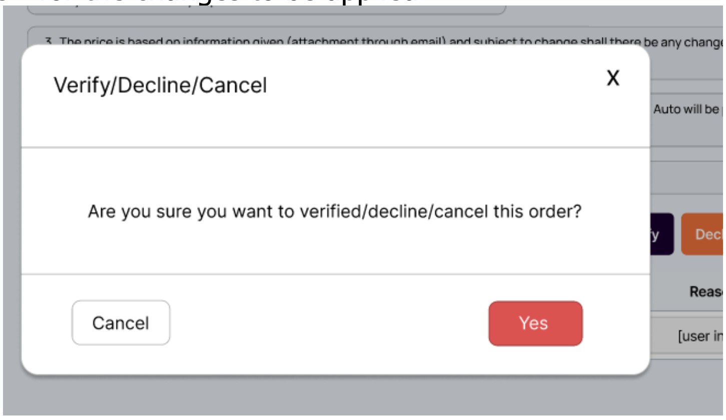


Figure 16: Cancel popup confirmation

6. Status of the record will change to “Verified”.
7. User cannot edit anymore once verified and verify action can only be done one time.
8. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

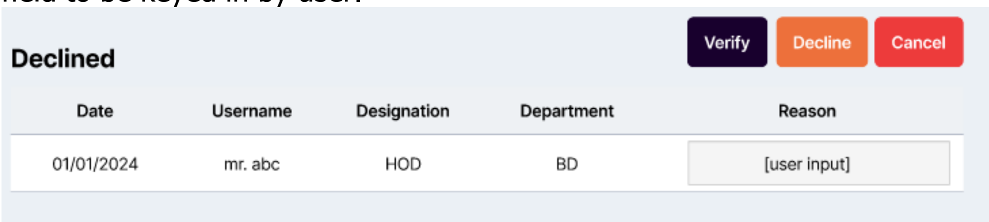


Figure 17: After click Decline button

9. Once saved, status will change to “Declined”.
10. If user click <Cancel> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

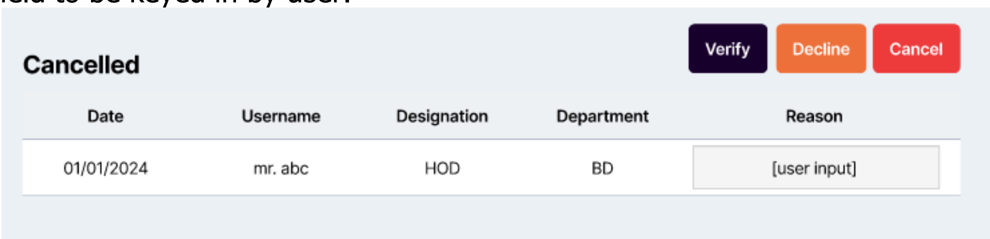


Figure 18: After click cancel

11. If the form is edit after decline action, the status will revert back to “Submitted”. The user will need to verify the form again.

Notes:
➢ A notification will be sent if verification is not done within 1 hour.

2.1.2 Order

A. List

1. It shows list of records.
2. User can create new order.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Order No.
   iii. PO No.
   iv. Customer Name
   v. Created Date
   vi. Status
   vii. Action

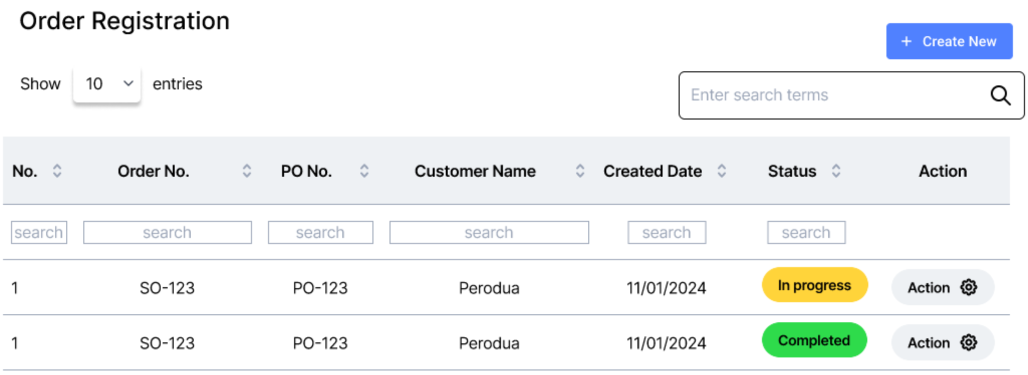


Figure 19: Order registration list

7. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
8. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
9. User can search based on each column or at main search field at the top.
10. User can sort column in increasing or decreasing order.
11. User can click "Create" button to create new record.

Create new

1. User fill in the create form:

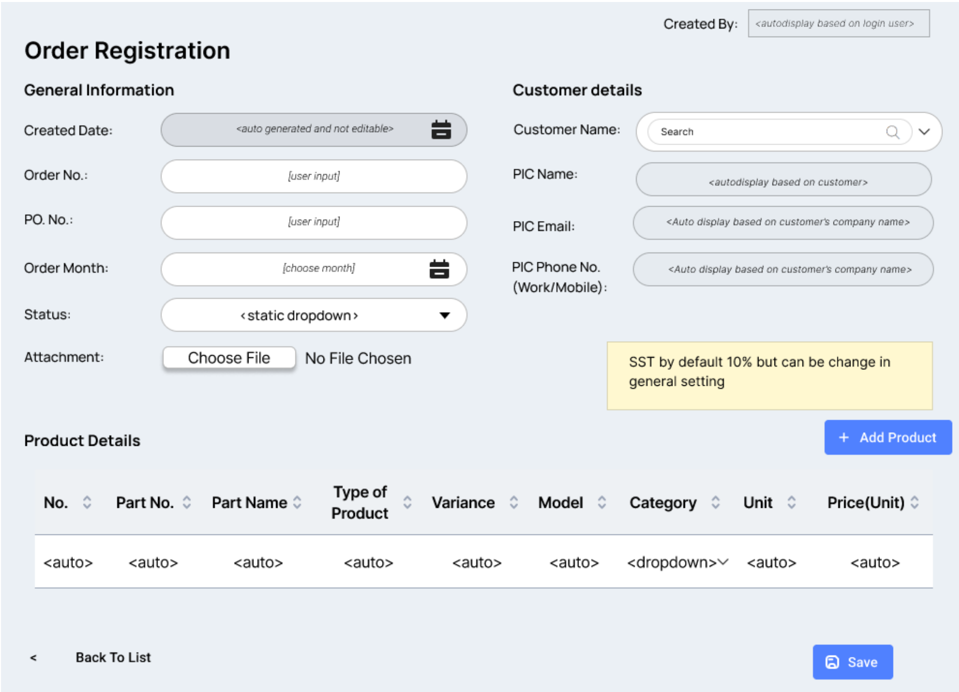


Figure 20: Information key-in

i. Created By: auto display current logged in user
ii. General Information section consist of:
   - **Created Date.:** auto current date but editable
   - **Order No.:** input text
   - **PO No.:** input text
   - **Order Month:** month picker
   - **Status:** static dropdown

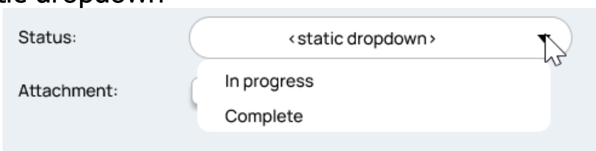


Figure 21: Status dropdown

   - **Attachment**: upload or download (image or file) with view action

iii. Customer Details section consist of:
   - **Customer Name:** dropdown with search based on Customer's database
   - **PIC Name:** auto display based on PIC of the selected Company Name
   - **PIC Email:** auto display based on PIC email of the selected Company Name
   - **PIC Phone No. (Work/Mobile):** auto display based on mobile phone of the selected Company Name

iv. Product Details table consist of:
   - **Add Product**: button to add product
   - **No.**
   - **Part No:** auto display based on the added Product
   - **Part Name:** auto display based on the added Product
   - **Type of Product:** auto display based on the added Product

- **Variance:** auto display based on the added Product
- **Model:** auto display based on the added Product
- **Category:** auto display based on the added Product
- **Unit:** auto display based on the added Product
- **Price (Unit):** auto display based on the added Product's Sale Price
- **SST%:** auto based on General Setting (By default 10%)
- **SST Value:** auto based on SST % * Price
- **Firm 1 Month Qty:** integer input
- **N+1 Forecast Month Qty:** integer input
- **N+2 Forecast Month Qty:** integer input
- **N+3 Forecast Month Qty:** integer input
- **Action**: Remove button

2. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

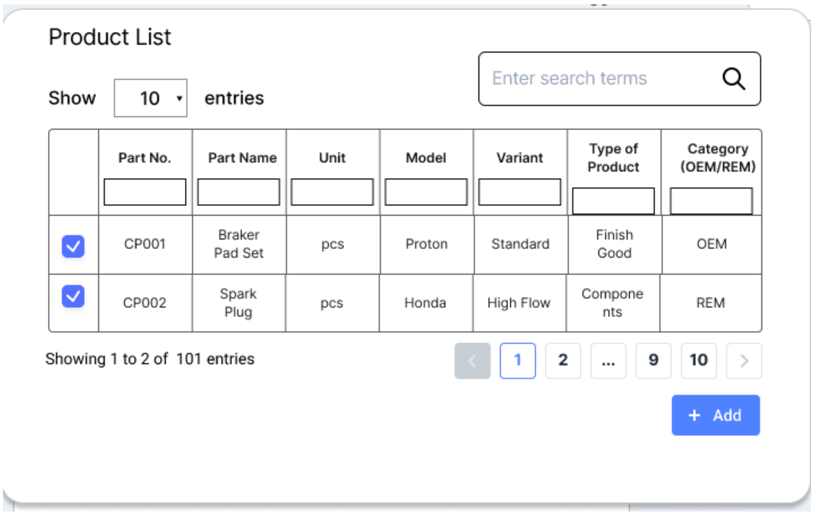


Figure 22: Search Product to Add

i. The modal consists of:
   - Entries filter
   - Search box
   - Search based on column
   - Checkbox for each product
   - Part No.: auto display from Product database
   - Part Name: auto display from Product database
   - Unit: auto display from Product database
   - Model: auto display from Product database
   - Variance: auto display from Product database
   - Type of Product: auto display from Product database
   - Category: auto display from Product database
   - Pagination
   - Add: button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table as shown below:

No.	Part No.	Part Name	Type of Product	Category	Variant	Model	OEM/REM	Unit
1	t	Part ABC	Finish Good	Category A	Variance 123	Model A	OEM	pcs

Figure 491: New product is added into the table

3. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

4. The status can be divided into:
   - In Progress (Light Yellow) – based on assigned status
   - Complete (Green) – based on assigned status

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Display all information from the latest saved state in read-only mode.

<u>Action: Edit</u>

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

<u>Action: Delete</u>

1. User can delete a record.

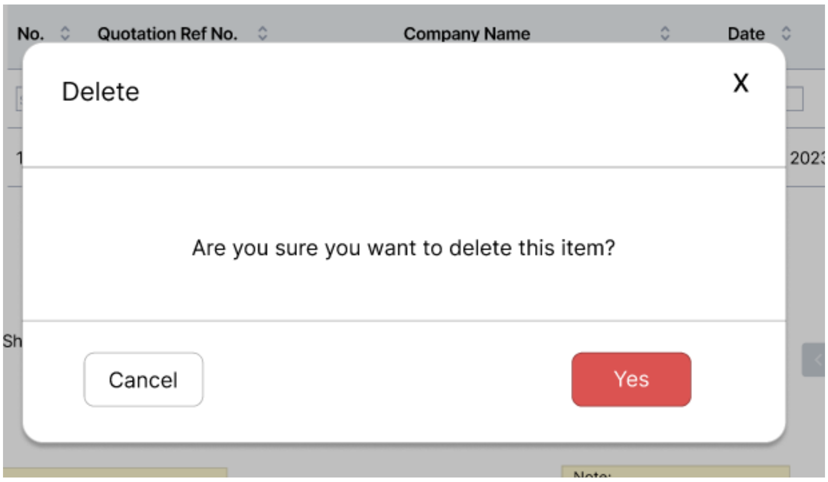


Figure 23: Delete action.

2.1.3 Sales Price

A. List

1. It shows list of records.
2. User can create new form.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Part No.
   iii. Part Name
   iv. Unit
   v. Model
   vi. Variance
   vii. Unit
   viii. Price/ Unit (RM)
   ix. Effective Date
   x. Status
   xi. Action

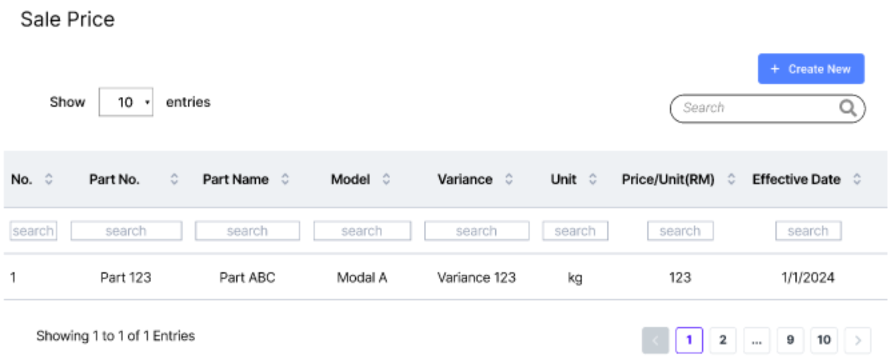


Figure 24: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Verify
   iv. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click “Create” button to create new record.

<u>Create new</u>

1. User fill in the create form:

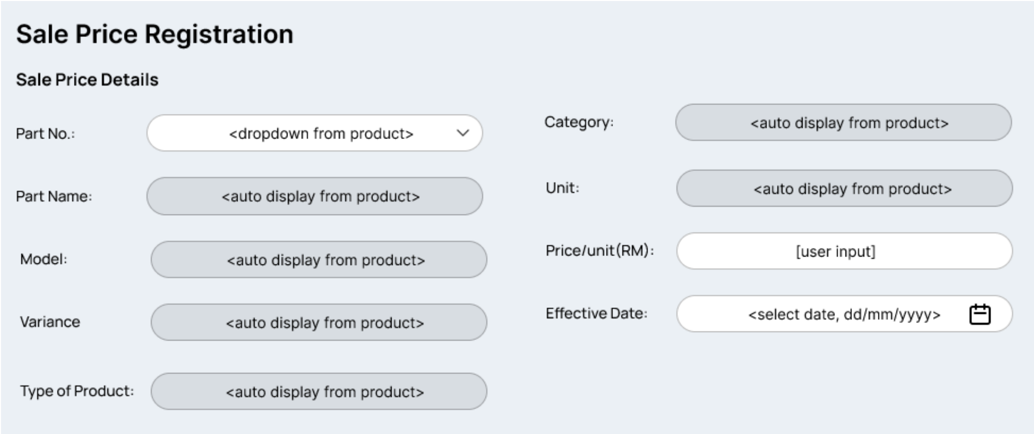


Figure 25: Information key-in

i. **Part No.**: dropdown based on Product database
ii. **Part Name**: auto display based on selected Part No.
iii. **Model:** auto display based on selected Part No.
iv. **Variance:** auto display based on selected Part No.
v. **Type of Product:** auto display based on selected Part No.
vi. **Category:** auto display based on selected Part No.
vii. **Unit**: dropdown based on Unit database
viii. **Price/ Unit (RM)**: input text
ix. **Effective Date**: date picker

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

3. The status can be divided into:
   - Submitted (Grey) – after created
   - Verified (Light blue) - if user click verify button.
   - Declined (Orange) - if user click decline button.
   - Cancelled (Red) - if user click cancel button.

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Display all information from the latest saved state in read-only mode.

<u>Action: Edit</u>

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

Action: Verify

1. Display all information from the latest saved state in read-only mode.
2. Verify, Decline and Cancel button is available at the bottom of the page.

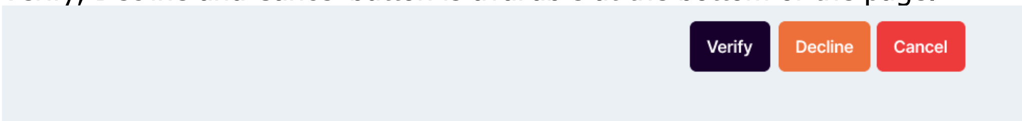


Figure 26: Verify section.

3. Once user click <Verify>, Date, Username, Designation and department will be auto display based on the current date and user information.

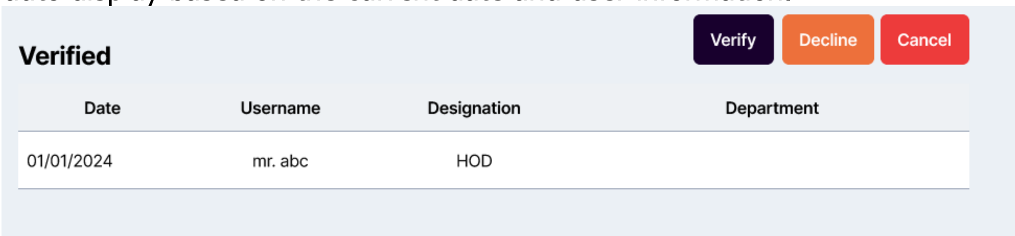


Figure 27: After click verify button

4. Click <Save> for the changes to be applied.

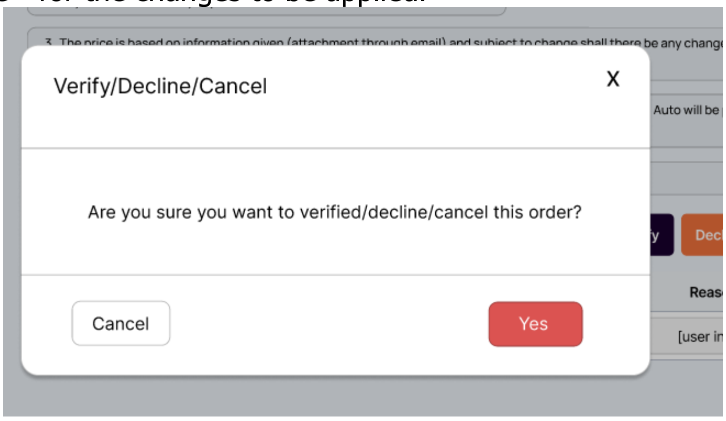


Figure 28: Popup confirmation

5. Status of the record will change to "Verified".
6. User cannot edit anymore once verified and verify action can only be done one time.
7. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

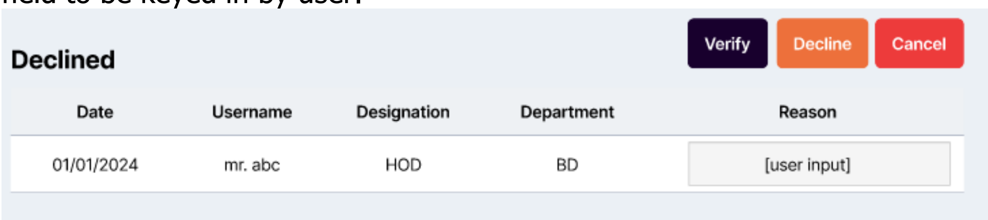


Figure 29: After click Decline button

8. Once saved, status will change to "Declined".
9. If user click <Cancel> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

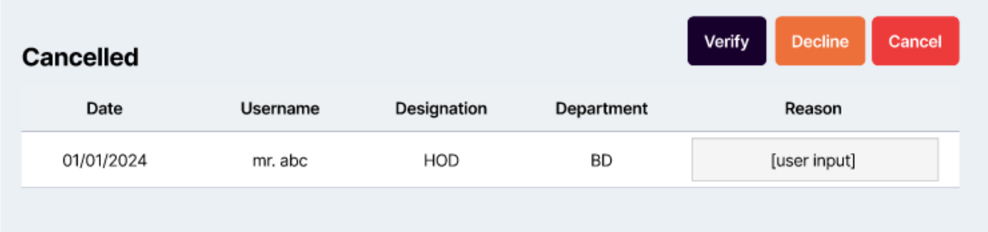


Figure 30: After click cancel

10. If the form is edit after decline action, the status will revert back to "Submitted". The user will need to verify the form again.

Notes: ➢ A notification will be sent if verification is not done within 1 hour.

<u>Action: Delete</u>

1. User can delete a record.

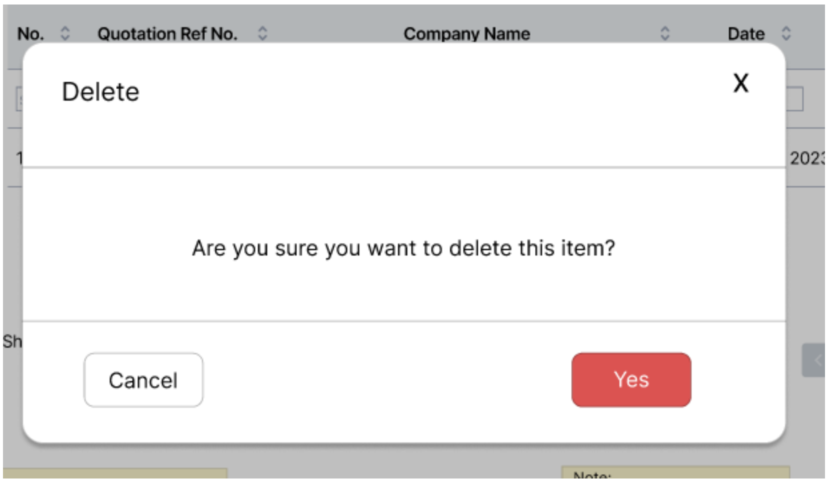


Figure 31: Delete action.

2.1.4 Invoice

A. List

1. It shows a list of invoice records.
2. Export and Create button is available above the main search box.
3. Saved form will be listed in this list screen.
4. The list will show following columns:
   i. Sr#
   ii. DO No.
   iii. Invoice No.
   iv. Created By
   v. Created Date
   vi. Action

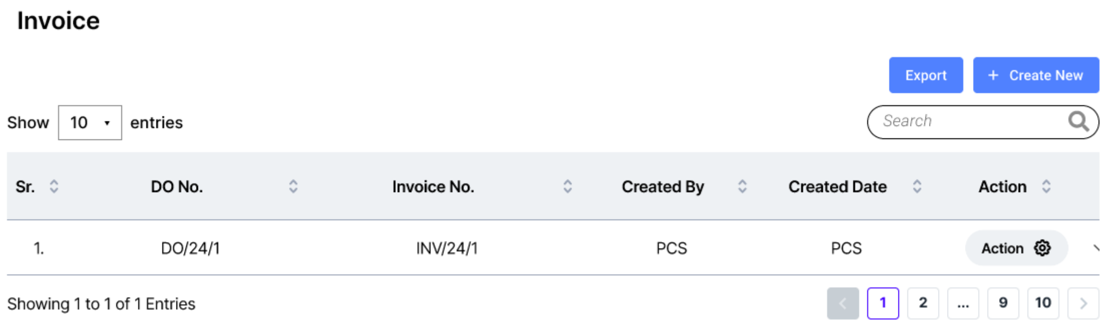


Figure 32: List

5. In Action column, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on each column or at main search field at the top.
8. User can sort column in increasing or decreasing order.
9. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in form.

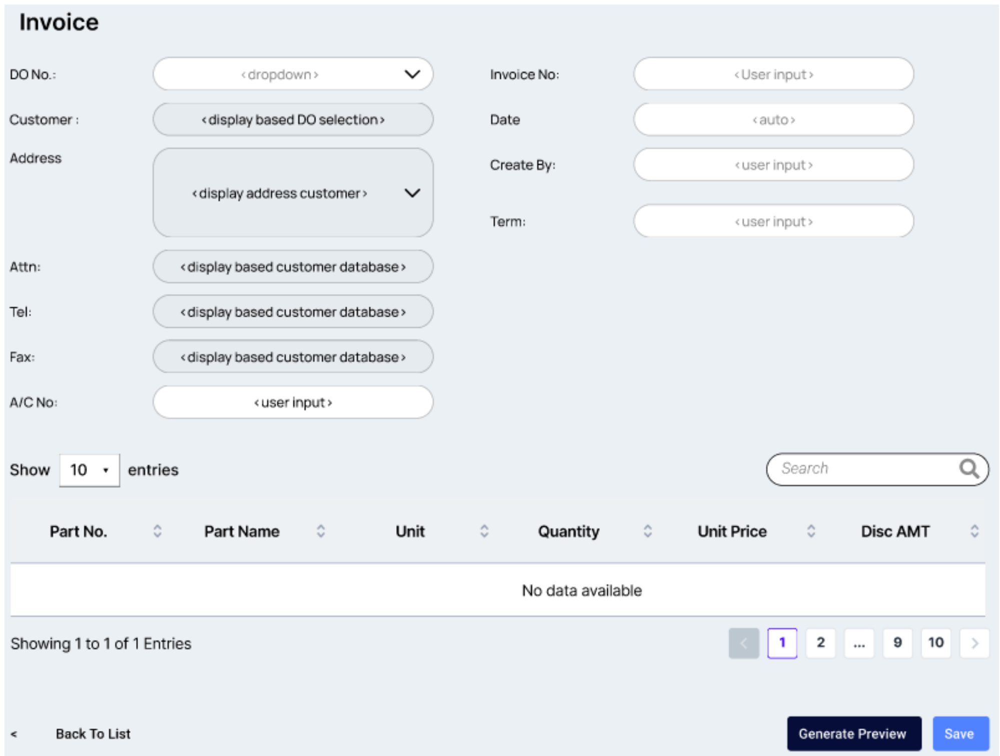


Figure 33: Information key-in create form

i. **DO No.:** multi select dropdown auto based on created DO at Outgoing
ii. **Customer:** auto based on selected DO No.
iii. **Address:** auto based on selected customer
iv. **Attn:** auto based on selected customer's PIC Name

v. **Tel:** auto based on selected customer's PIC Phone (Work/Mobile)
vi. **Fax:** auto based on selected customer's Fax
vii. **A/C No.:** text input
viii. **Invoice No.:** text input
ix. **Created Date:** auto display current date
x. **Created By:** auto display current logged in user
xi. **Term:** text input
xii. The product table (based on selected DO No. except Disc AMT) consists of:
  - No.
  - Part No
  - Part Name
  - Unit
  - Quantity
  - Unit Price
  - Disc AMT: **integer input**
  - Total Excl. SST
  - SST %: auto based on general setting
  - Total Incl. SST: auto calculated

2. At the bottom there are several buttons:
   - <Generate Preview> button to print Invoice
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights.

Action: View

1. Same as 2.1.2.B view action.
2. <Generate Preview> button is provided to generate the Invoice for printing.

Action: Preview

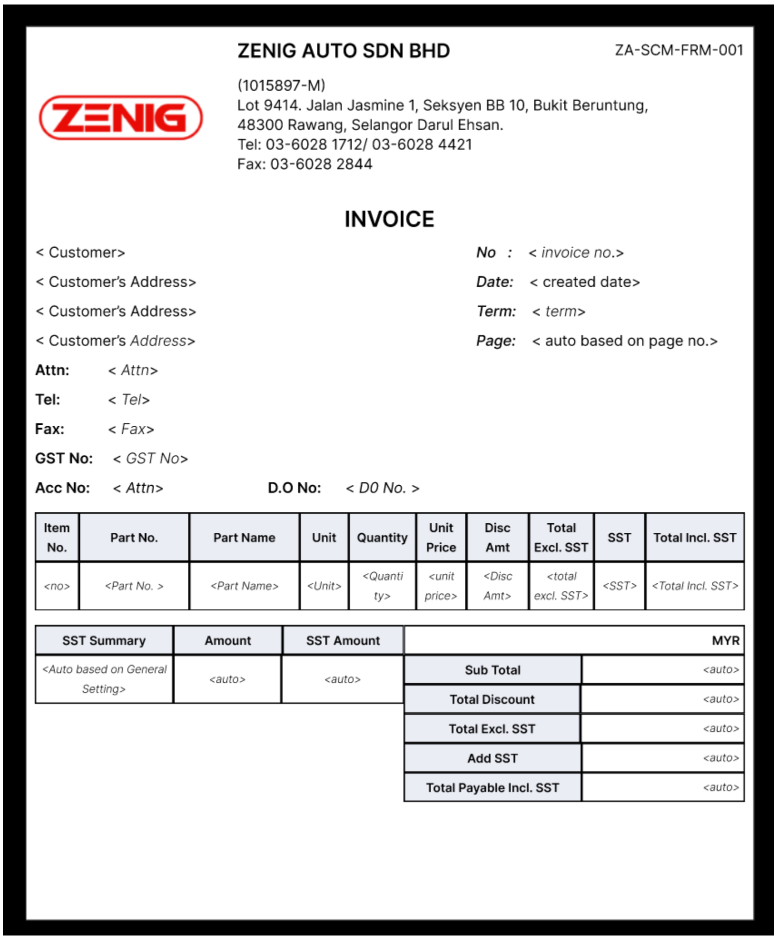
1. To generate the Invoice for printing.

Action: Edit

1. Same as 2.1.2.B edit action.
2. <Generate Preview> button is provided to generate the Invoice for printing.

Action: Delete

1. Same as 2.1.2.B delete action.



ZENIG AUTO SDN BHD

ZA-SCM-FRM-001

(1015897-M)
Lot 9414. Jalan Jasmine 1, Seksyen BB 10, Bukit Beruntung,
48300 Rawang, Selangor Darul Ehsan.
Tel: 03-6028 1712/ 03-6028 4421
Fax: 03-6028 2844

INVOICE

< Customer>
< Customer's Address>
< Customer's Address>
< Customer's Address>

Attn: < Attn>
Tel: < Tel>
Fax: < Fax>
GST No: < GST No>
Acc No: < Attn> **D.O No:** < DO No. >

No : < invoice no.>
Date: < created date>
Term: < term>
Page: < auto based on page no.>

Item No.	Part No.	Part Name	Unit	Quantity	Unit Price	Disc Amt	Total Excl. SST	SST	Total Incl. SST
<no>	<Part No. >	<Part Name>	<Unit>	<Quantity>	<unit price>	<Disc Amt>	<total excl. SST>	<SST>	<Total Incl. SST>

SST Summary	Amount	SST Amount
<Auto based on General Setting>	<auto>	<auto>

	MYR
Sub Total	<auto>
Total Discount	<auto>
Total Excl. SST	<auto>
Add SST	<auto>
Total Payable Incl. SST	<auto>

Figure 34: Generated Invoice

2.2 Procurement and Vendor Development (PVD)

2.2.1 Purchase Price

A. List

1. It shows list of records.
2. User can create new form.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Part No.
   iii. Part Name
   iv. Unit
   v. Price/ Unit (RM)
   vi. Effective Date
   vii. Status
   viii. Action

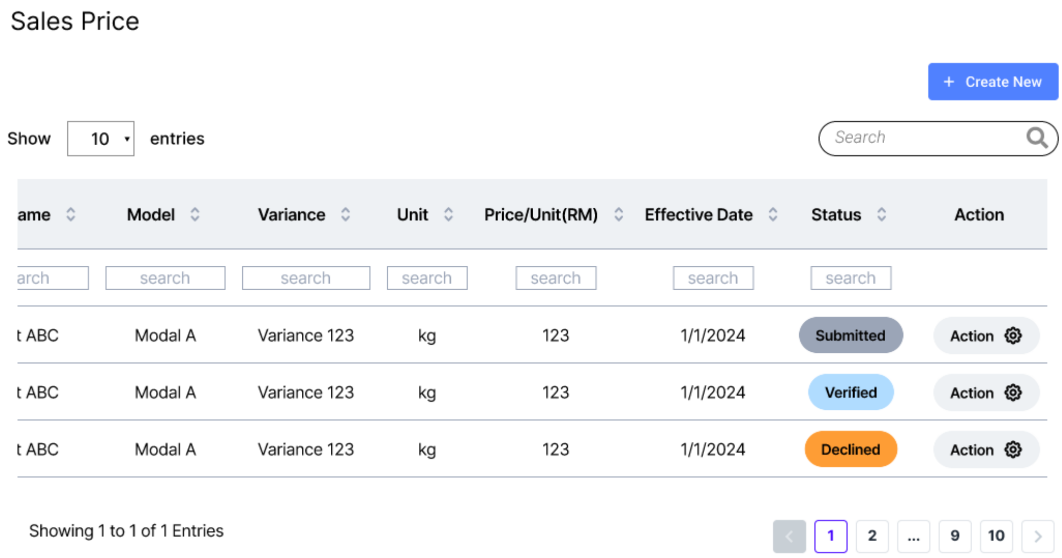


Figure 35: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill in the create form:

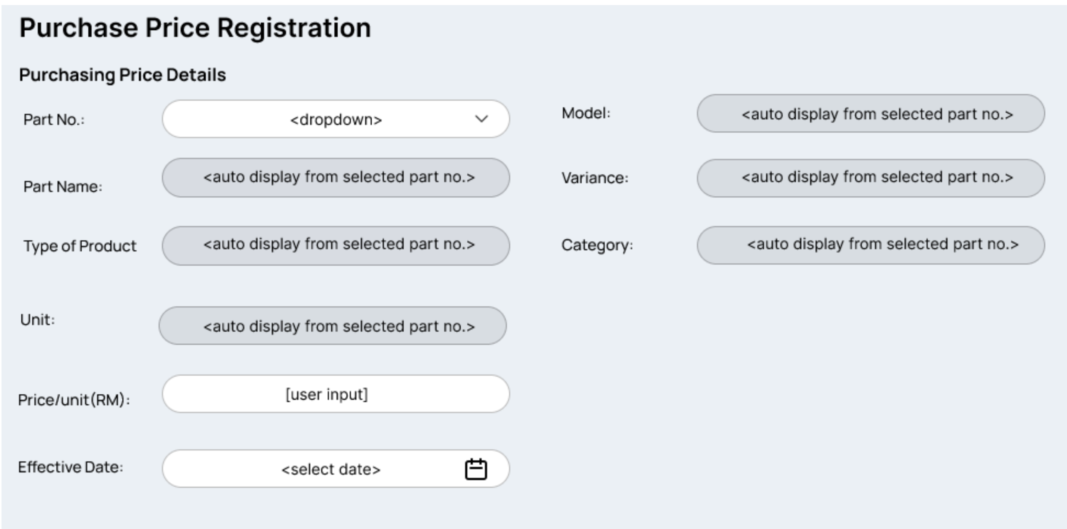


Figure 36: Information key-in

   i. **Part No.**: dropdown based on Product database
   ii. **Part Name**: auto display based on selected Part No.
   iii. **Model:** auto display based on selected Part No.

iv. **Variance:** auto display based on selected Part No.
v. **Type of Product:** auto display based on selected Part No.
vi. **Category:** auto display based on selected Part No.
vii. **Unit**: dropdown based on Unit database
viii. **Price/ Unit (RM)**: input text
ix. **Effective Date**: date picker

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

3. The status can be divided into:
   - Submitted (Grey) – after created
   - Verified (Green) - if user click verify button.
   - Declined (Orange) - if user click decline button.
   - Cancelled (Red) - if user click cancel button.

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Display all information from the latest saved state in read-only mode.

<u>Action: Edit</u>

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

<u>Action: Verify</u>

1. Display all information from the latest saved state in read-only mode.
2. Verify, Decline and Cancel button is available at the bottom of the page.

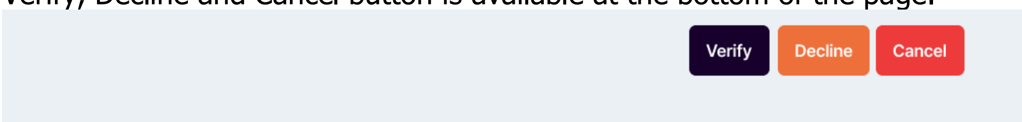


Figure 37: Verify section.

3. Once user click <Verify>, Date, Username, Designation and department will be auto display based on the current date and user information.

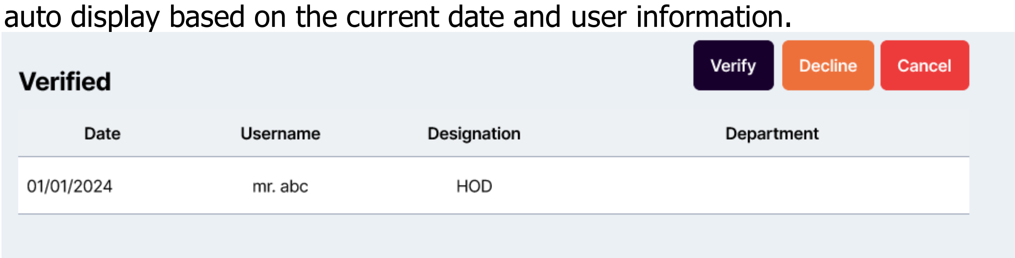


Figure 38: After click verify button

4. Click <Save> for the changes to be applied.

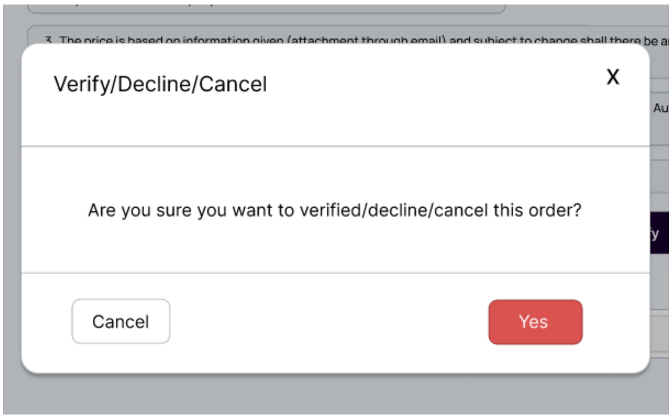


Figure 39: Popup confirmation

5. Status of the record will change to "Verified".
6. User cannot edit anymore once verified and verify action can only be done one time.
7. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

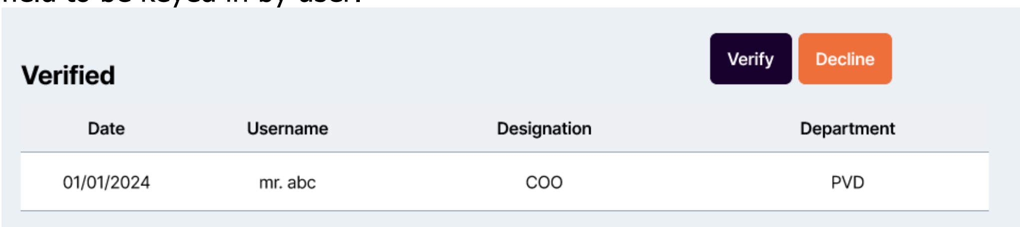


Figure 40: After click Decline button

8. Once saved, status will change to "Declined".
9. If the form is edit after decline action, the status will revert back to "Submitted". The user will need to verify the form again.

Notes:
➢ A notification will be sent if verification is not done within 1 hour.

<u>Action: Delete</u>

1. User can delete a record.

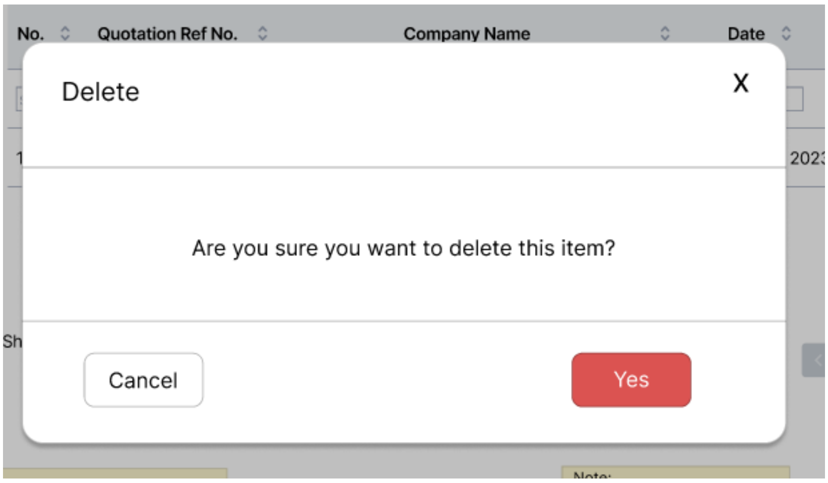
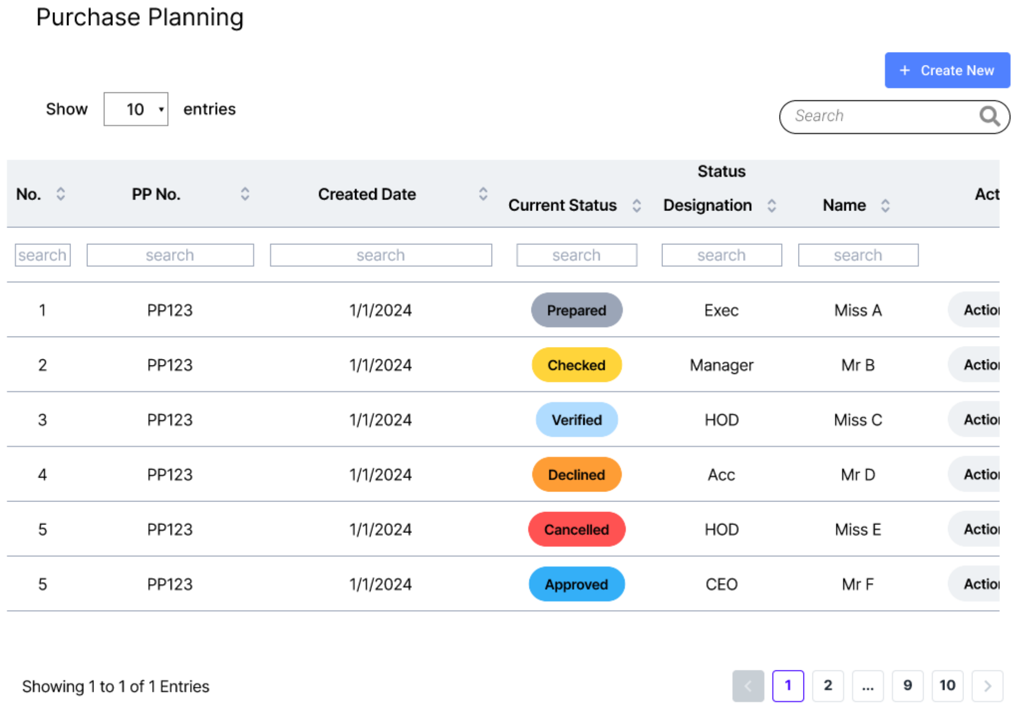


Figure 41: Delete action.

2.2.2 Purchase Planning

A. List

1. It shows list of records.
2. User can create new purchase planning.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. PP No.
   iii. Created Date
   iv. Products
   v. Status (Current Status, Designation and Name)
   vi. Action



No.	PP No.	Created Date	Status: Current Status	Status: Designation	Status: Name	Act
1	PP123	1/1/2024	Prepared	Exec	Miss A	Actio
2	PP123	1/1/2024	Checked	Manager	Mr B	Actio
3	PP123	1/1/2024	Verified	HOD	Miss C	Actio
4	PP123	1/1/2024	Declined	Acc	Mr D	Actio
5	PP123	1/1/2024	Cancelled	HOD	Miss E	Actio
5	PP123	1/1/2024	Approved	CEO	Mr F	Actio

Figure 42: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Check
   iv. Verify (HOD)
   v. Verify (Acc)
   vi. Approve
   vii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill in the create form:

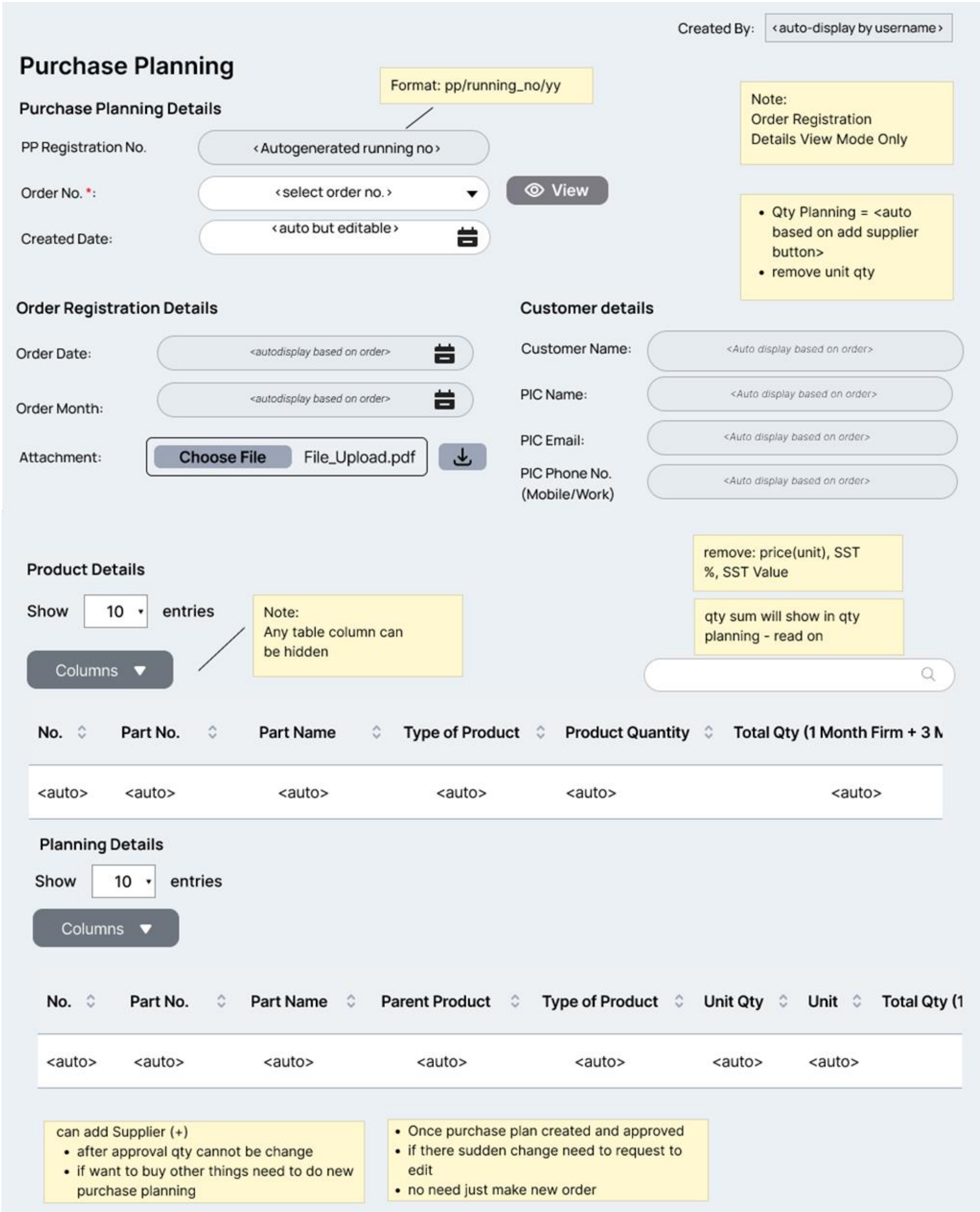


Figure 43: Information key-in

i. Purchase Planning Details section consist of:
   - **Created By:** auto display current logged in user
   - **Created Date.:** auto current date but editable
   - **PP Registration No**: auto running no. [Format: PP/running no./yyyy]
   - **Order No.:** dropdown based on registered Order No., required
   - **View:** button to view order form

ii. Order Registration Details section auto display based on selected Order No. which consist of:
   - **Order Date**
   - **Order Month**

- **Attachment**

iii. Customer details section auto display based on selected Order No. which consist of:
- **Customer Name**
- **PIC Name**
- **PIC Email**
- **PIC Phone No. (Mobile/Work)**

iv. Product Details table auto display based on selected Order No. which consist of:
- **Entries filter**
- **Column filter**
- **No.**
- **Part No**
- **Part Name**
- **Type of Product**
- **Product Quantity**
- **Total Qty (1 month firm + 3 month forecast)**

v. Planning Details table consist of:
- **Entries filter**
- **Column filter**
- **No.**
- **Part No:** auto display
- **Part Name:** auto display
- **Parent Product:** auto display
- **Type of Product:** auto display
- **Unit (Qty):** integer input
- **Unit:** auto display based
- **Total Qty (1 Month Firm + 3 Month Forecast):** auto display based
- **Inventory Qty:** auto based on current inventory
- **MOQ:** integer input
- **Balance:** auto calculate MOQ - Inventory
- **Qty Planning:** auto based on Qty Supplier (Qty added at <Add Supplier> button)
- **Supplier:** Add button

2. If user click "Add Supplier" button, a Supplier List will pop up in a modal as following for user to select:

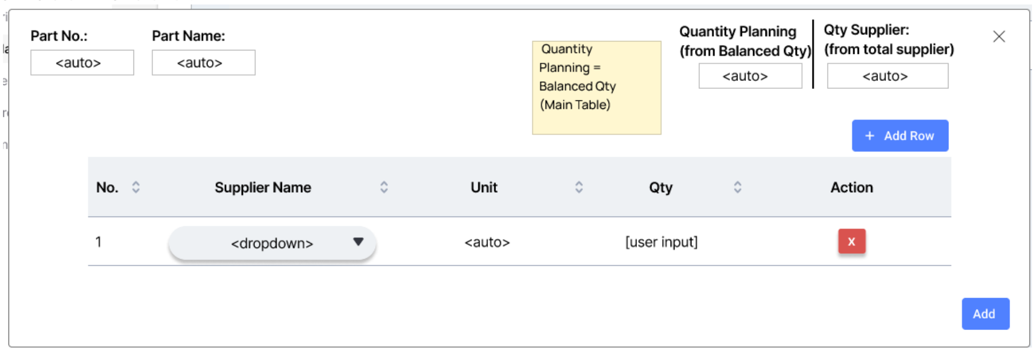
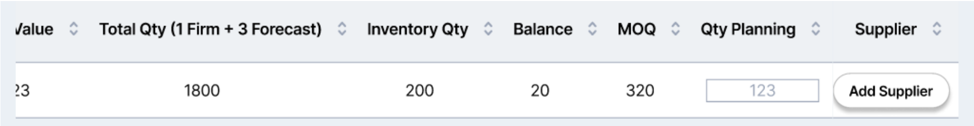


Figure 44: Search Supplier and add qty

i. The modal consists of:
   - Part No.: auto display based on selected Part No at Planning Details table
   - Part Name.: auto display based on selected Part No at Planning Details table
   - Qty Planning: auto display based on Product List section
   - Qty Supplier: auto display based on Qty by Supplier table
   - Add Row: button
   - No.
   - Supplier Name: dropdown based on Supplier Database
   - Unit: dropdown based on Unit Database
   - Qty: input integer
   - Action
   - Entries filter
   - Search box
   - Pagination

ii. Once done, user has to click <Add> button to add it to the main table as shown below:



/alue	Total Qty (1 Firm + 3 Forecast)	Inventory Qty	Balance	MOQ	Qty Planning	Supplier
23	1800	200	20	320	123	Add Supplier

Figure 491: Part No.'s planning qty by supplier.

3. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

4. The status can be divided into:
   - Submitted (grey) – after created
   - Checked (Yellow) – if user click check button.
   - Verified (Light Blue) – if user click verify button.
   - Approved (Dark Blue) - if user click approve button.
   - Declined (Orange) - if user click decline button.
   - Cancelled (Red) - if user click cancel button.

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Same as 2.2.1.B view action

<u>Action: Edit</u>

1. Same as 2.2.1.B edit action

<u>Action: Check</u>

1. Display all information from the latest saved state in read-only mode.
2. Check button is available at the bottom of page.

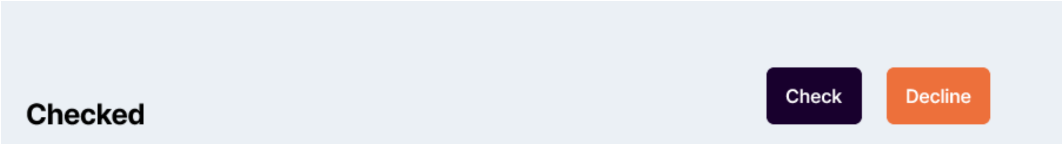


Figure 45: Check section.

3. Once user click <Check>, Date, Username, Designation and department will be auto display based on the current date and user information.

Figure 46: After click verify button

4. Click <Save> for the changes to be applied.

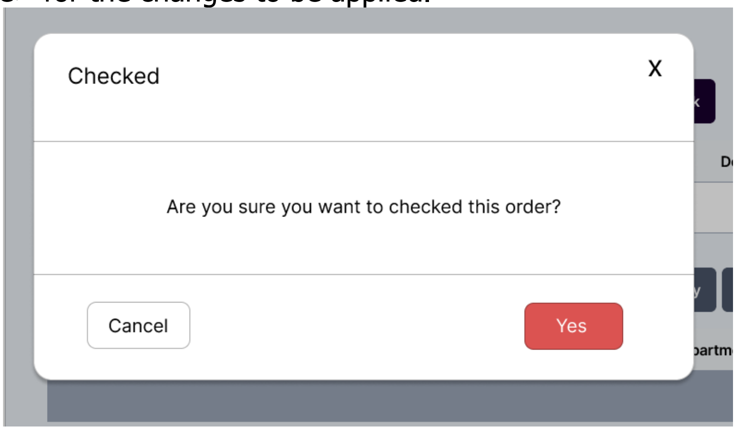


Figure 47: Popup confirmation

5. Status of the record will change to "Checked".
6. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

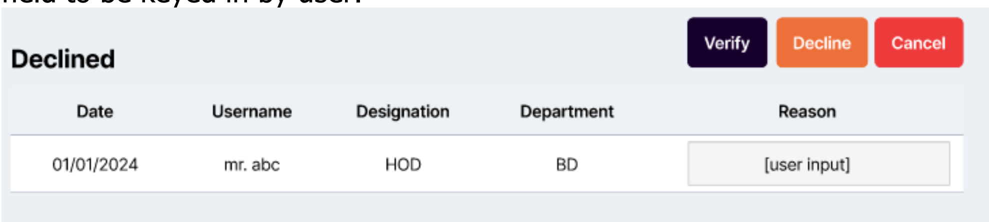
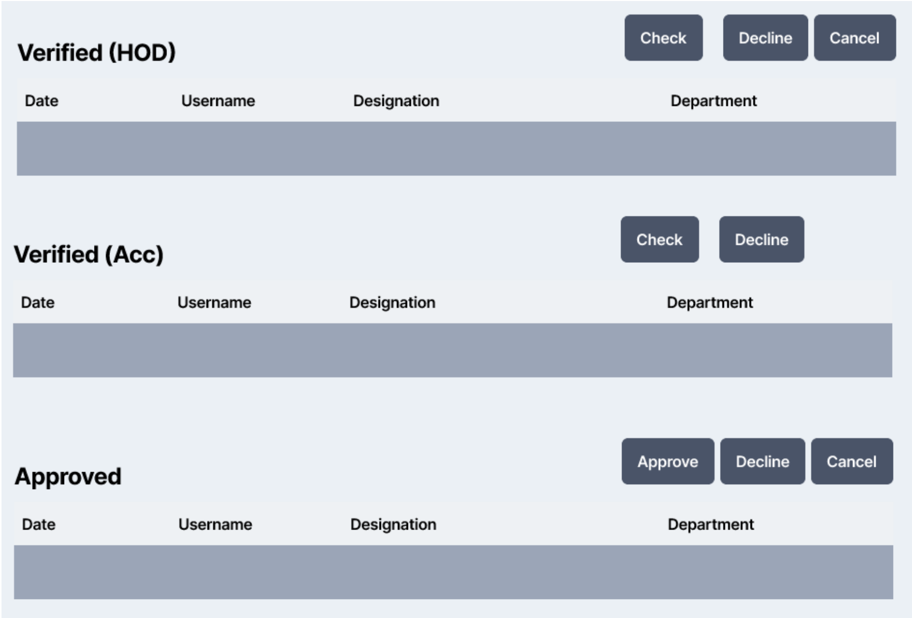


Figure 48: After click Decline button

7. Once saved, status will change to "Declined".
8. If the form is edit after decline action, the status will revert back to "Submitted". The user will need to verify the form again.
9. "Verify" and "Approve" table is view mode.



<u>Action: Verify (HOD)</u>

1. Display all information from the latest saved state in read-only mode.
2. Check, Verify (Acc) and Approve is view mode.
3. Verify, Decline and Cancel button is available at the bottom of the page.

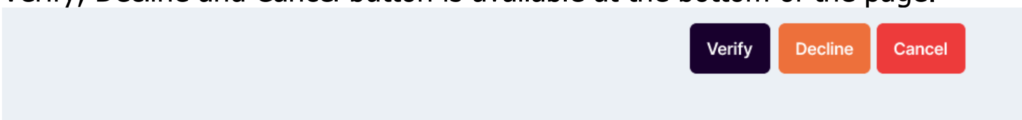


Figure 49: Verify section.

3. Once user click <Verify>, Date, Username, Designation and department will be auto display based on the current date and user information.

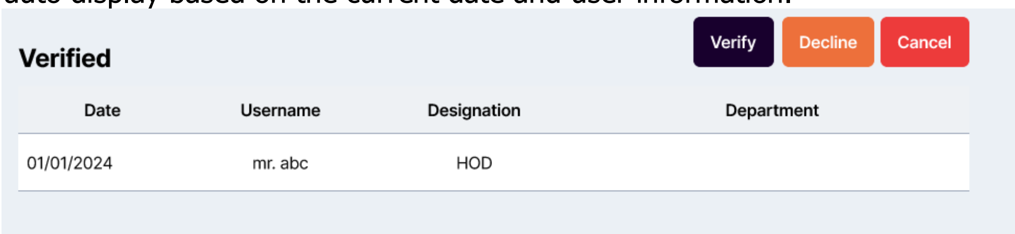


Figure 50: After click verify button

4. Click <Save> for the changes to be applied.

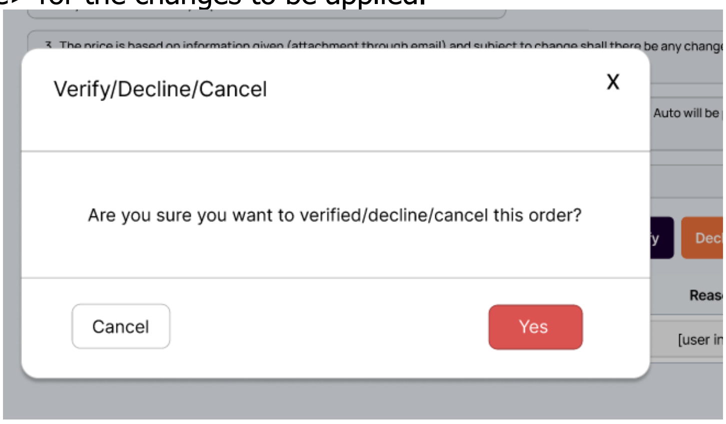


Figure 51: Popup confirmation

5. Status of the record will change to “Verified”.
6. User cannot edit anymore once verified and verify action can only be done one time.
7. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

Date	Username	Designation	Department	Reason
01/01/2024	mr. abc	HOD	BD	[user input]

Figure 52: After click Decline button

8. Once saved, status will change to “Declined”.
9. If user click <Cancel> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

Date	Username	Designation	Department	Reason
01/01/2024	mr. abc	HOD	BD	[user input]

Figure 53: After click cancel

10. If the form is edit after decline action, the status will revert back to “Submitted”. The user will need to verify the form again.

Notes:
- A notification will be sent if verification is not done within 1 hour.

Action: Verify (Account)
1. Same as Verify (HOD) but do not have Cancel button.
2. Check, Verify (HOD) and Approve is view mode.

Action: Approve
1. Display all information from the latest saved state in read-only mode.
2. Check, Verify (HOD) and Verify (Acc) is view mode.
3. Approve, Decline and Cancel button is available at the bottom of the page.

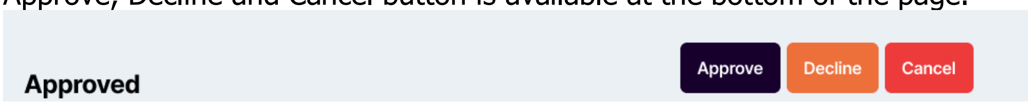


Figure 54: Verify section.

3. Once user click <Approve>, Date, Username, Designation and department will be auto display based on the current date and user information.

Figure 55: After click approve button

4. Click <Save> for changes to be applied.

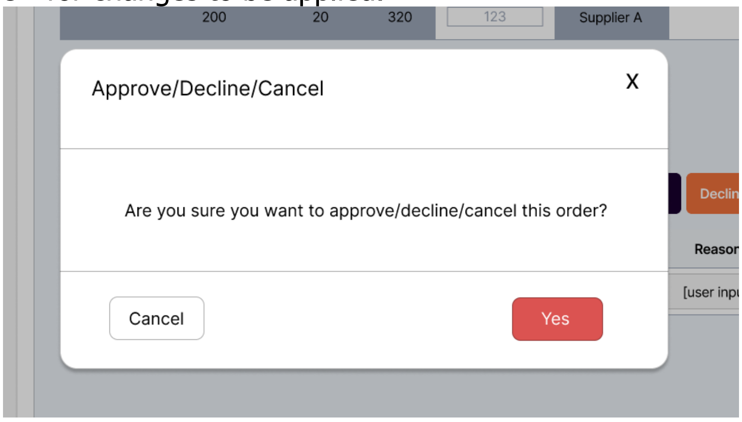


Figure 56: Popup confirmation

5. Status of the record will change to "Approved".
6. User cannot edit anymore once approved and approve action can only be done one time.
7. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

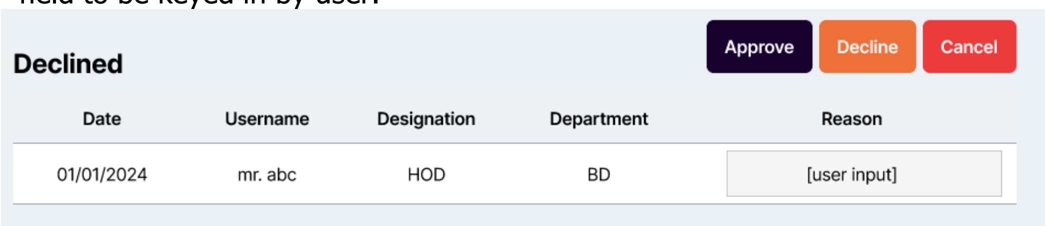


Figure 57: After click decline button

8. Once saved, status will change to "Declined".
9. If user click <Cancel> button, Date, Username, Designation and Department will be auto display based on the current date and user information and Reason field to be keyed in by user.

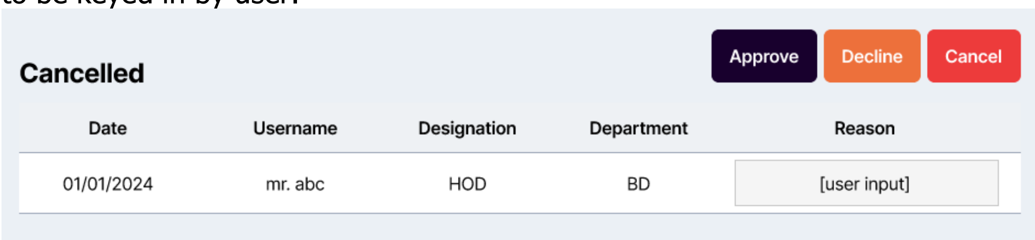


Figure 58: After click cancel button

10. If the form is edit after decline action, the status will revert back to "Submitted". The user will need to approve the form again.

Notes:
- ➢ A notification will be sent if approval is not done within 1 hour.

<u>Action: Delete</u>

1. Same as 2.2.1.B delete action

2.2.3 Purchase Requisition

A. List

1. It shows list of records.
2. User can create new purchase requisition.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
    - i. Sr#
    - ii. PR No.
    - iii. Department
    - iv. Date
    - v. Grand Total
    - vi. PR Status
    - vii. Category
    - viii. Requested By
    - ix. Status (Current Status, Designation and Name)
    - x. Action

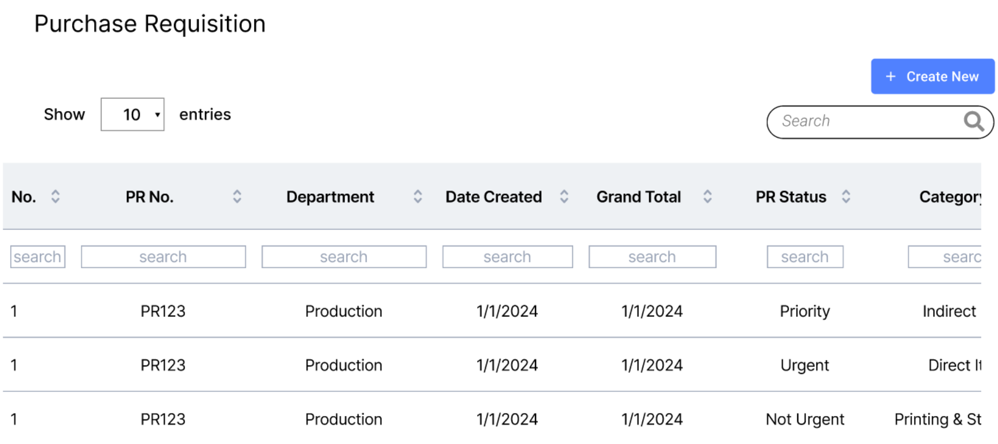


Figure 59: List

6. In Action, user will have option dropdown to:
    - i. View
    - ii. Edit
    - iii. Verify (HOD)
    - iv. Verify (Acc)
    - v. Approve
    - vi. Delete

7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill in the create form:

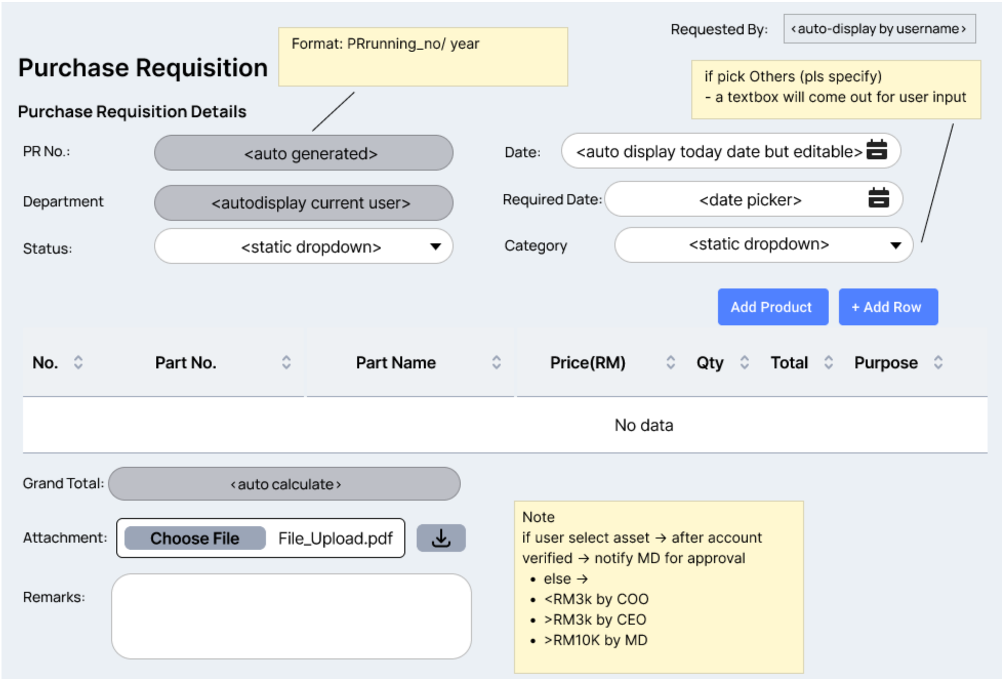


Figure 60: Information key-in

i. Requested By: auto display current logged in user
ii. Purchase Requisition Details section consist of:
   - **PR No.:** auto running no. [Format: PR/running no./yyy]
   - **Date.:** auto current date but editable
   - **Department**: auto display based on current user
   - **Required Date.:** date picker
   - **Status**: static dropdown

Figure 61: Status dropdown

   - **Category**: static dropdown (if others, a new text box will be displayed)

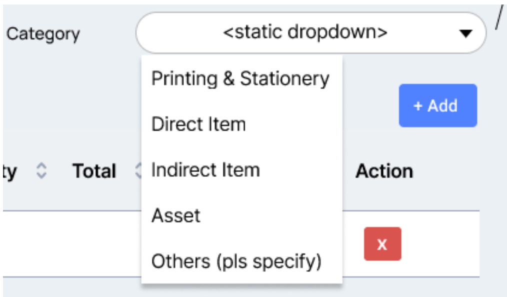


Figure 62: Category dropdown

- **Grand Total**: auto calculate
- **Attachment**: upload or download (image or file) with view action
- **Remarks**: textarea input

iii. Product detail table which consists of:
- Add Product: button to add product
- **No.**
- **Part No.**
- **Part Name**
- **Price (RM)**
- **Qty**
- **Total (RM)**
- **Purpose**
- **Action: remove button**

2. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

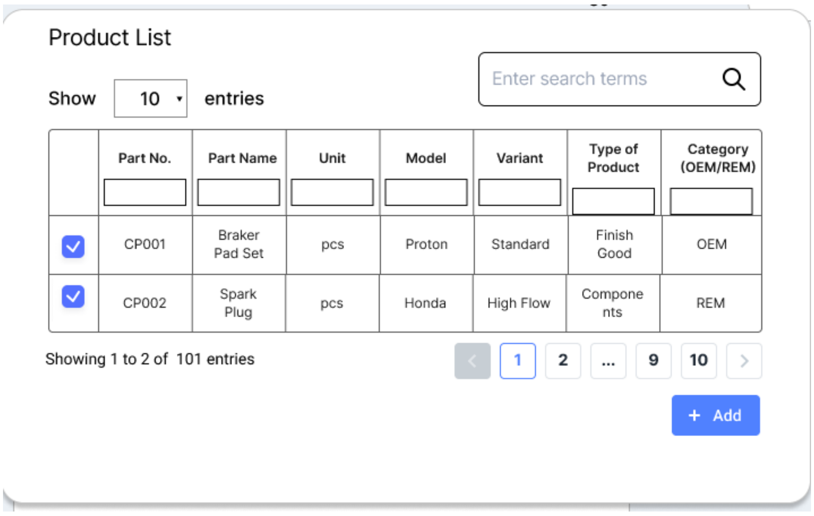


Figure 63: Search Product to Add

iii. The modal consists of:
- Entries filter
- Search box
- Search based on column
- Checkbox for each product
- Part No.: auto display from Product database
- Part Name: auto display from Product database
- Unit: auto display from Product database
- Model: auto display from Product database

- Variance: auto display from Product database
- Type of Product: auto display from Product database
- Category: auto display from Product database
- Pagination
- Add: button

iv. Once the product is searched and selected, user has to click <Add> button to add it to the main table as shown below:

No.	Description (Mode, Saiz, Spec)	Price	Qty	Total	Purpose	Action
search	search	search	search	search	search	
1	Testing	RM123	RM123	RM456	to use in the office	x

Figure 491: New product is added into the table

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

3. The status can be divided into:
   - Requested (Grey) – after created
   - Verified (Light Blue) - if user click verify button.
   - Approved (Dark Blue) - if user click approve button.
   - Declined (Orange) - if user click decline button.
   - Cancelled (Red) - if user click cancel button.

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

Action: View

1. Same as 2.2.1.B view action.

Action: Edit

1. Same as 2.2.1.B edit action.

Action: Verify (HOD)

1. Same as 2.2.2.B Verify (HOD) action
2. Verify (Acc) and Approve is view mode.

Action: Verify (Account)

1. Same as 2.2.2.B Verify (Acc) action
2. Verify (HOD) and Approve is view mode.

Action: Approve

1. Same as 2.2.2.B approve action
2. Verify (Account) and Verify (HOD) table is view mode.

Action: Delete

1. Same as 2.2.1.B delete action

2.2.4 Purchase Order

A. List

1. It shows list of records.
2. User can create new purchase requisition.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. PO No.
   iii. Quotation No.
   iv. Created Date
   v. Supplier
   vi. Net Total
   vii. Quotation No
   viii. Created Date
   ix. Status
   x. Action

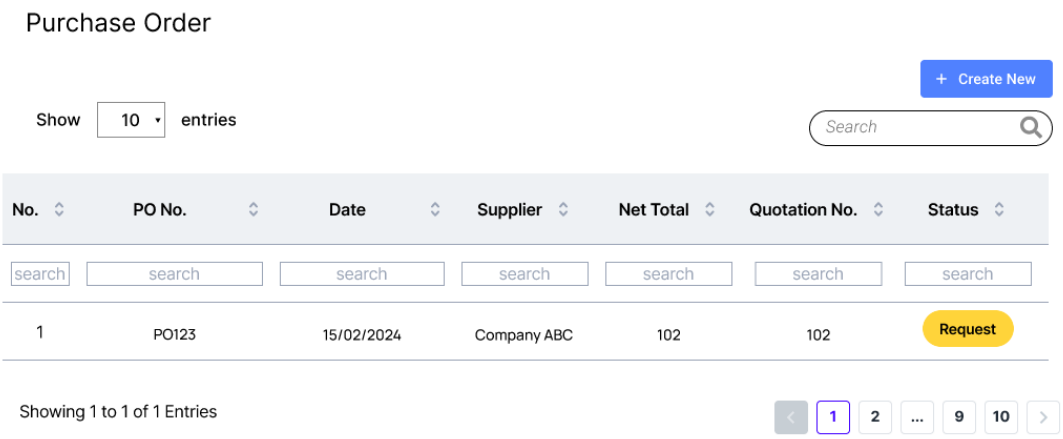


Figure 64: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Preview
   iii. Edit
   iv. Check
   v. Verify
   vi. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill in the create form:

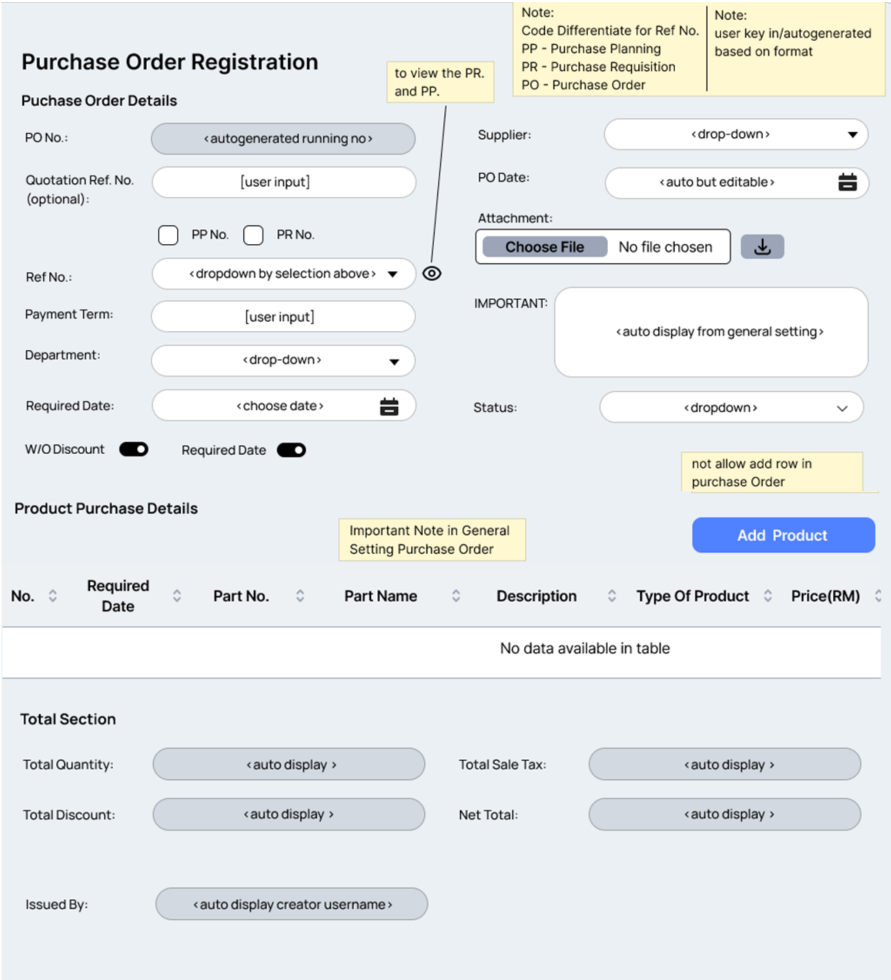


Figure 65: Information key-in

i. Purchase Order Details section consist of:
   - **PO No.:** auto running no. [Format: PO/running no./yyy]
   - **PO Date.:** auto current date
   - **Quotation Ref No. (optional)**: dropdown based on created Quotation
   - **PP No.:** checkbox, if ticked it will display PP No. at the Ref No. dropdown based on approved PP
   - **PR No.:** checkbox, if ticked it will display PR No. at the Ref No. dropdown based on approved PR
   - **Ref No.:** dropdown based on the ticked checkbox (PP/PR)
   - **Payment Term:** text input
   - **Department:** dropdown based on Department database
   - **Supplier:** dropdown based on Supplier database
   - **Attachment:** upload or download (image or file) with view action
   - **Important:** dropdown based on general setting
   - **Status:** static dropdown (In Progress and Complete)
   - **W/O Discount:** toggle button (if ON, there will no discount applied for all product at the table)
   - **Required Date:** toggle button (if ON, the Required Date for all product at the table will be same)

ii. Product Purchase Details table auto based on PP or PR which consists of:
   - **Add Product**: button to add product
   - **No.**
   - **Required Date:** datepicker
   - **Part No.**
   - **Part Name**
   - **Type of Product**
   - **Price (RM)**
   - **Qty**
   - **Discount (%)**
   - **Discount**
   - **Sale Tax (%)**
   - **Sale Tax**
   - **Total (RM)**
   - **W/O Discount:** toggle
   - **Action:** remove button

iii. Total Section calculation based on Product Purchase Details which consists of:
   - **Total Quantity:** Sum of quantity
   - **Total Discount:** Sum of discount
   - **Total Sale Tax:** Sum of sale tax
   - **Net Total (RM):** auto minus grand total with total discount and sale tax
   - **Issued By:** auto current logged in user

2. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

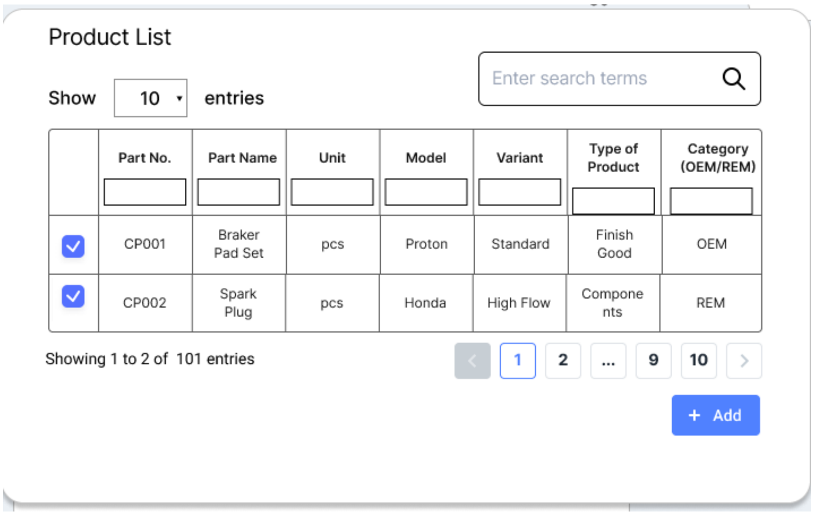
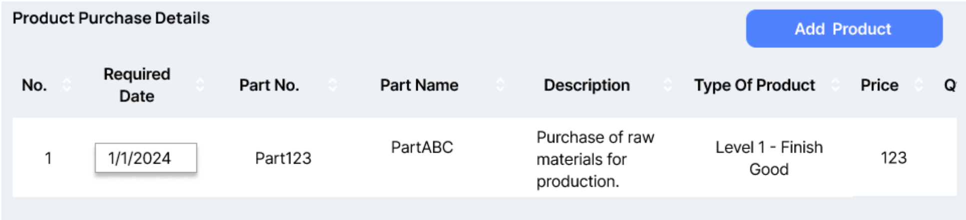


Figure 66: Search Product to Add

i. The modal consists of:
   - Entries filter
   - Search box
   - Search based on column
   - Checkbox for each product
   - Part No.: auto display from Product database
   - Part Name: auto display from Product database
   - Unit: auto display from Product database
   - Model: auto display from Product database
   - Variance: auto display from Product database

- Type of Product: auto display from Product database
- Category: auto display from Product database
- Pagination
- Add: button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table as shown below:



Product Purchase Details

Add Product

No.	Required Date	Part No.	Part Name	Description	Type Of Product	Price	Q
1	1/1/2024	Part123	PartABC	Purchase of raw materials for production.	Level 1 - Finish Good	123	

Figure 491: New product is added into the table

3. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

4. The status can be divided into:
   - Submitted (grey) – after submit
   - Checked (Yellow) – if user click verify button.
   - Verified (Light Blue) - if user click verify button.
   - Declined (Orange) - if user click decline button.
   - Cancelled (Red) - if user click cancel button.
   - In Progress (Light Yellow) – based on assigned status
   - Completed (Green) – based on assigned status

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Same as 2.2.1.B view action
2. Generate Preview button to view the generated PO.

<u>Action: Preview</u>

1. To view generated Purchase Order.

ZENIG AUTO SDN BHD ZA-SCM-FRM-001

(1015897-M)
Lot 9414. Jalan Jasmine 1, Seksyen BB 10, Bukit Beruntung,
48300 Rawang, Selangor Darul Ehsan.
Tel: 03-6028 1712/ 03-6028 4421
Fax: 03-6028 2844

TO: < Supplier Name>
< Supplier's Address>
< Supplier's Address>
< Supplier's Address>
ATTN: <Supplier PIC Name>
TEL: <Supplier PIC Telephone No>
FAX <Supplier PIC Fax No>

Delivery TO:
ZENIG AUTO SDN. BHD
Lot 9414, Jalan Jasmine 1
Seksyen BB10, Bukit Beruntung
48300 Rawang Selangor

Payment Term:	<autodisplay>	**Date:**	<autodisplay>
PR No:	<autodisplay>		
Department:	<autodisplay>	**Important:**	<auto from general setting>
Required Date:	<autodisplay>		

Item No.	Quantity	Description/Part No./Part Name	Discount	Unit Price	Amount
<no>	<auto>	<auto>	<auto>	<auto>	<auto>

Remark	Issued By	Checked By	Appoved By
<auto>	<auto>	<auto>	<auto>

N.B 1. Bill/Invoice to be submitted in duplicate for payment.
2. ZENIG AUTO. Sdn. Bhd. will not be responsible and will not accept bills for amounts other than those shown.
3. Please notify us immediately if you are unable to ship/deliver as specified

Figure 67: Preview

<u>Action: Edit</u>

1. Same as 2.2.1.B edit action
2. Generate Preview button to view the generated PO.

<u>Action: Check</u>

1. Display all information from the latest saved state in read-only mode.
2. Check button is available at the bottom of page.

Check

Figure 68: Check section.

3. Once user click <Check>, Date, Username, Designation and department will be auto display based on the current date and user information.

Check

Checked

Date	Username	Designation	Department
01/01/2024	mr. abc	HOD	BD

Figure 69: After click verify button

4. Click <Save> for the changes to be applied.

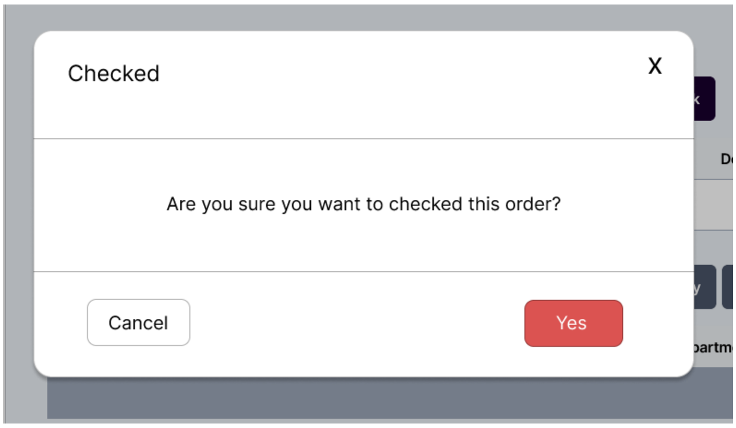


Figure 70: Popup confirmation

5. Status of the record will change to "Checked".
6. "Verify" table is view mode (located above verify table).

Action: Verify

1. Same as 2.2.1.B verify action
2. Generate Preview button to view the generated PO.
3. "Check" table is view mode (located above verify table).

Action: Delete

1. Same as 2.2.1.B delete action

2.2.5 Supplier Ranking List

A. List

1. It shows list of records.
2. User can create new form.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Supplier Name
   iii. Ranking Date
   iv. Customer Ranking
   v. Created By
   vi. Created Date
   vii. Action

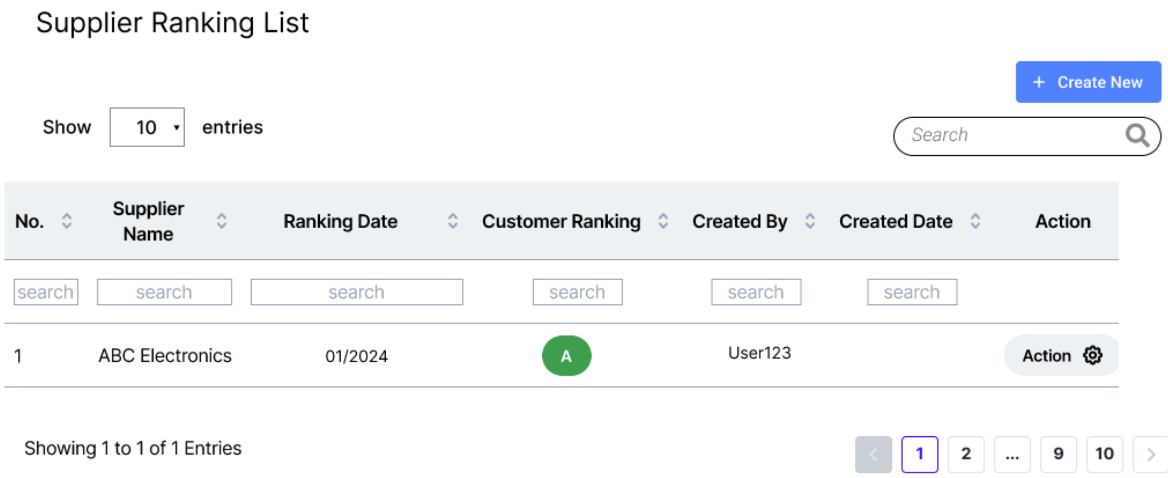


Figure 71: List

6. In Action, user will have option dropdown to:
   - View
   - Edit
   - Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill in the create form:

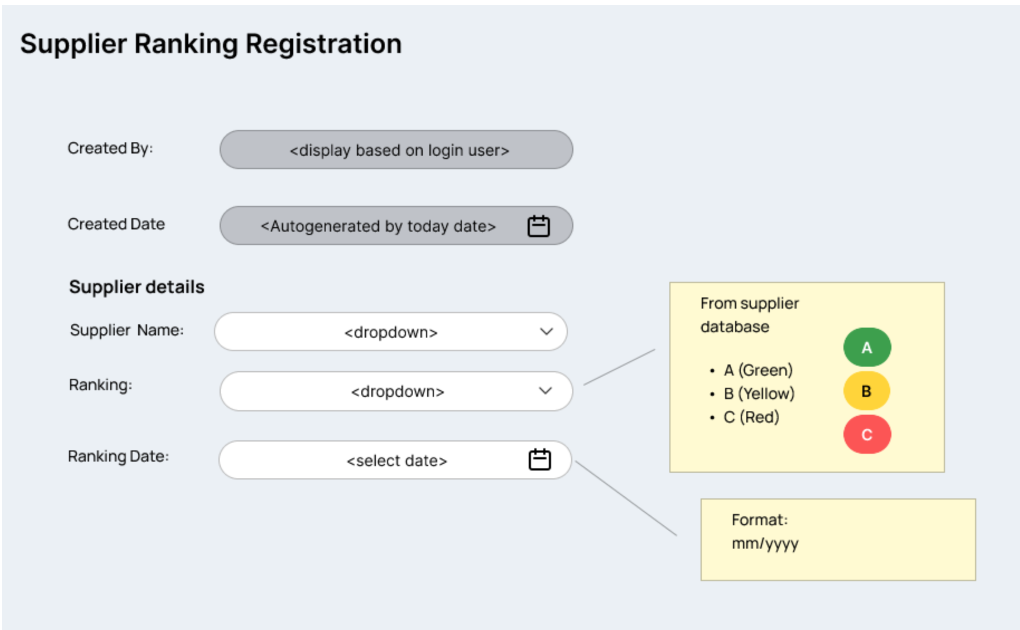


Figure 72: Information key-in

i. **Created By**: auto display based on current logged in user
ii. **Created Date**: auto current date
iii. **Supplier Name**: dropdown search based on supplier database

iv. **Ranking**: static dropdown

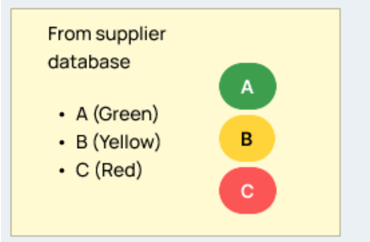


Figure 73: Ranking dropdown

v. **Ranking Date**: datepicker (mm/yyyy)

4. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form
The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

Action: View
1. Same as 2.2.1.B view action

Action: Edit
1. Same as 2.2.1.B edit action

Action: Delete
1. Same as 2.2.1.B delete action

3 MES

At the side navigation menu, there are four main menu which are **ERP**, **MES**, **WMS** and **Setting**. Under "**MES**" module, it consists of several sub-module which are Dashboard, Engineering, PPC, Production and OEE.

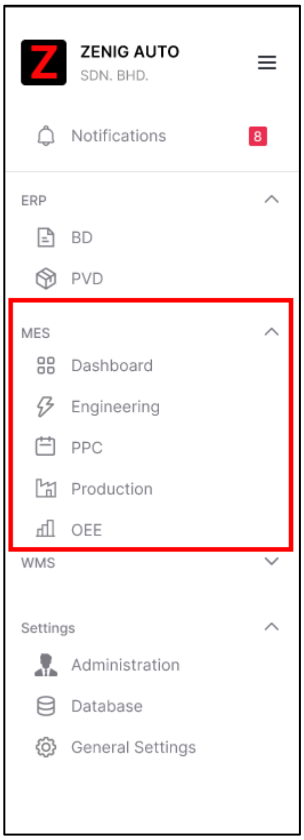


Figure 74: MES Menu

3.1 Dashboard

3.1.1 Machine Status

1. Display all the machine based on process.
2. For TV display, this page will automatically slide and arrow buttons to move left or right will be provided.
3. The dashboard box consists of:
    - Machine Name
    - Machine Status: ON/ OFF
    - Production Order No.: Current running production order
    - Part No.
    - Part Name
    - Planned Qty
    - Produced Qty
    - Rejected Qty
    - Status Order: Status of Production Order consists of Not Initiated (Grey), Started (Green), Paused (Yellow) and Stopped (Red).
    - Shift

4. The background colour of the Machine Name header will change according to the current status of machine which consist of:
   - Green (Production)
   - Red (Downtime)
   - Yellow (Machine Preparation/ Setup)
   - Grey (Not Initiated or No Production Order)
   - "Require Assistance" blinking red (if Call for Assistance physical button is switched on)

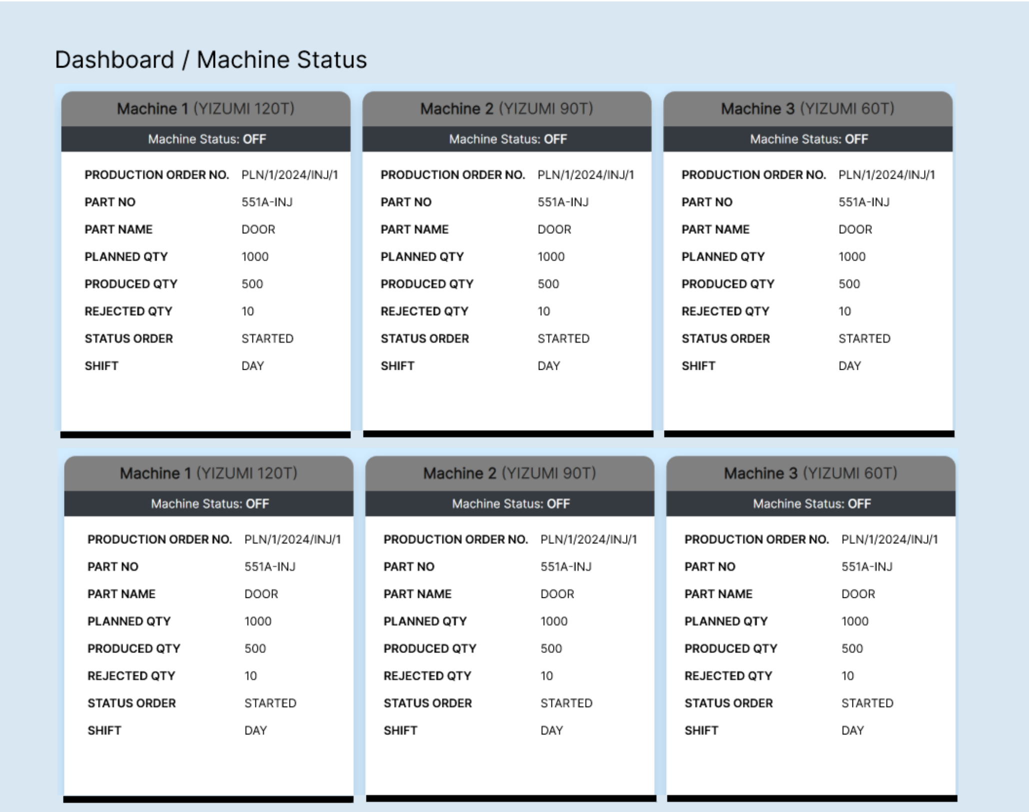


Figure 75: Machine Status sample– all machine including assembly process

3.1.2 Shopfloor

1. Display all the machine based on factory layout.
2. The machine will have a status indicator consists of Not Initiated/ No Order (Grey), Production (Green), Machine Preparation/ Setup (Yellow) and Downtime (Red).
3. If "Call for Assistance" physical button is switched on, the box will keep blinking.
4. Subjected to feasibility.

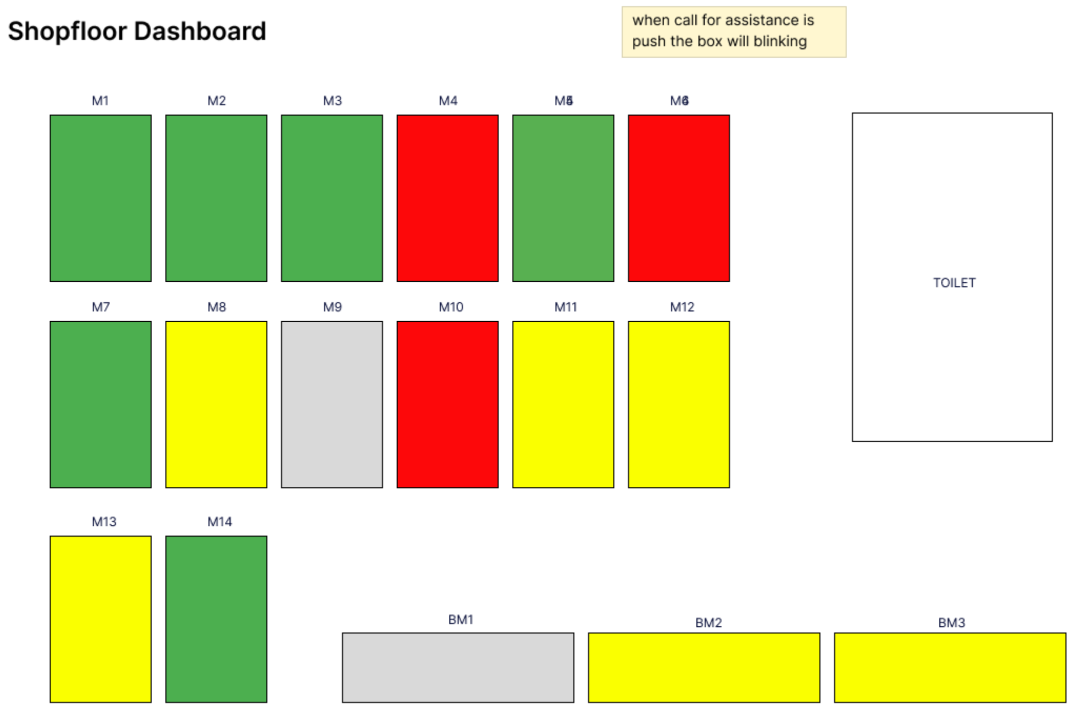


Figure 76: Shopfloor Dashboard Sample

3.2 Engineering

3.2.1 BOM

A. List

1. It shows list of records.
2. User can create new BOM.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Ref No.
   iii. Part No.
   iv. Part Name
   v. Customer Name
   vi. Customer Product Code
   vii. Type of Product
   viii. Unit
   ix. Qty
   x. Model
   xi. Variance
   xii. Part Weight (g)
   xiii. Date
   xiv. Description
   xv. Status
   xvi. Action

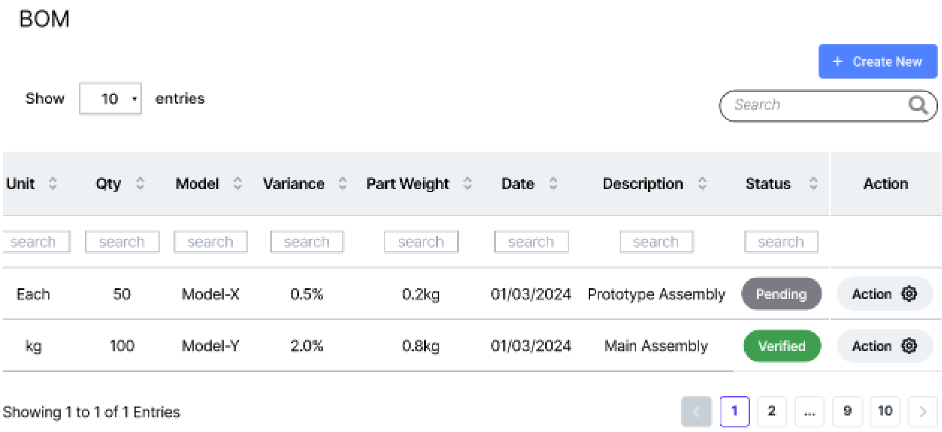


Figure 77: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Verify
   iv. Inactive
   v. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill in the create form:

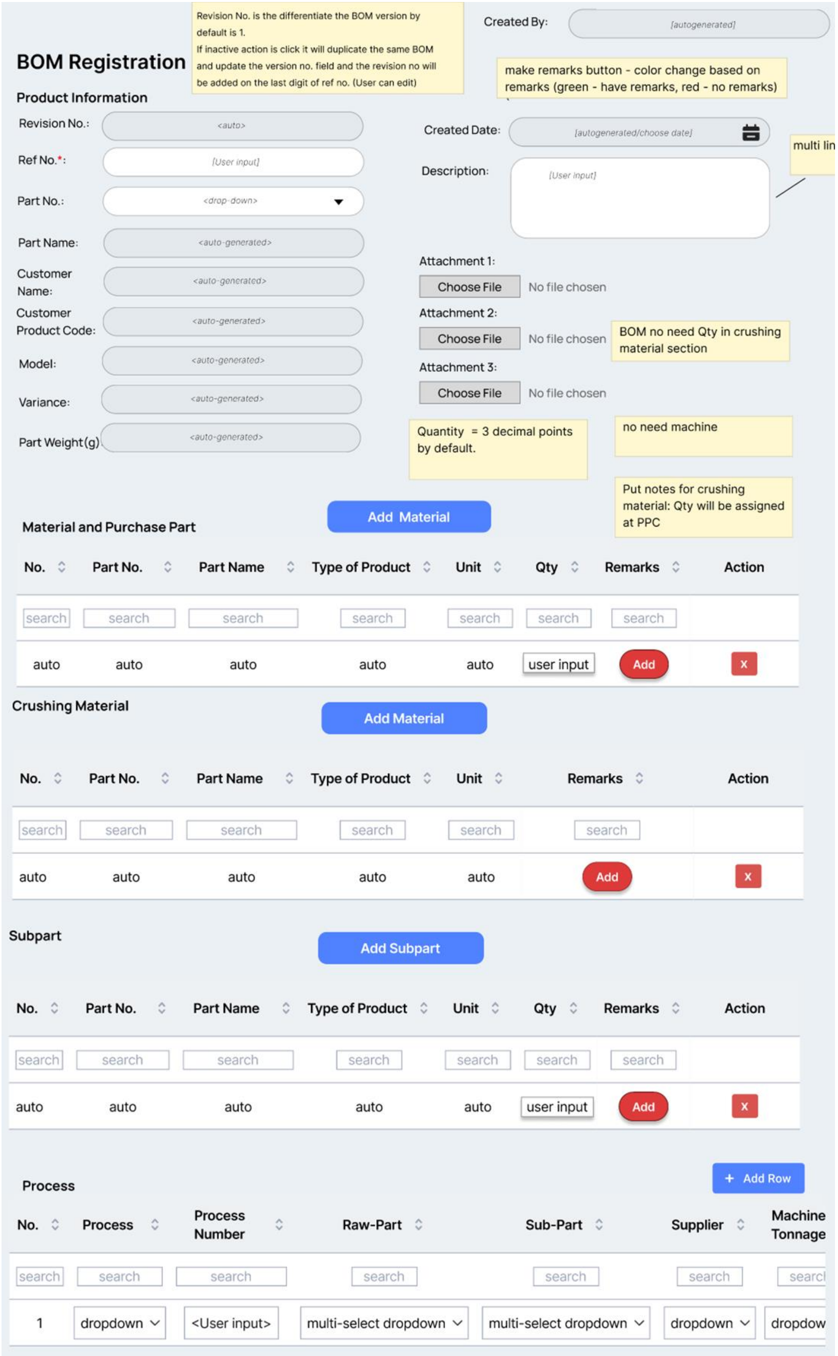


Figure 78: Information key-in

i. Created By: auto display current logged in user

ii. Product Information section consist of:
- **Revision No.:** auto, by default 1
- **Ref No**.: text input, should be unique and required
- **Part No**.: dropdown search based on Product database
- **Part Name**: auto display based on selected Part No.
- **Customer Name**: auto display based on selected Part No.
- **Customer Product Code**: auto display based on selected Part No.
- **Model**: auto display based on selected Part No.

- **Variance**: auto display based on selected Part No.
- **Part Weight (g)**: auto display based on selected Part No.
- **Created Date.:** auto current date but editable
- **Description**: textarea input
- **Attachment 1**: upload or download (image or file) with view action
- **Attachment 2**: upload or download (image or file) with view action
- **Attachment 3**: upload or download (image or file) with view action

iii. Material and Purchase Part section consist of:
   - **Add Material**: button
   - **No.**
   - **Part No:** auto based on Product database
   - **Part Name:** auto based on the selected Part No.
   - **Type of Product:** auto based on the selected Part No.
   - **Unit:** auto based on the selected Part No.
   - **Qty:** integer input
   - **Remarks:** add button (Green – have remarks, Red – no remarks)

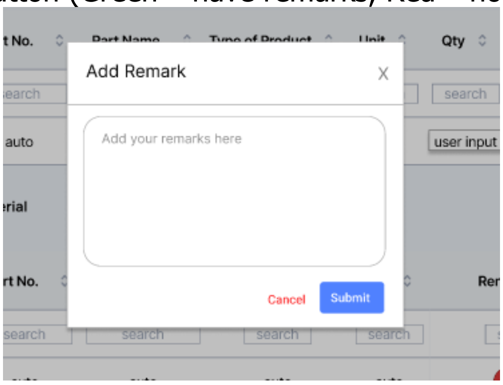


Figure 79: Standardized add Remark

   - **Action**: remove button

iv. Crushing Material section consist of:
   - **Add Material**: button
   - **No.**
   - **Part No:** auto based on Product database
   - **Part Name:** auto based on the selected Part No.
   - **Type of Product:** auto based on the selected Part No.
   - **Unit:** auto based on the selected Part No.
   - **Remarks:** add button (Green – have remarks, Red – no remarks)
   - **Action**: remove button

v. Subpart section consist of:
   - **Add Subpart**: button
   - **No.**
   - **Part No:** auto based on Product database
   - **Part Name:** auto based on the selected Part No.
   - **Type of Product:** auto based on the selected Part No.
   - **Unit:** auto based on the selected Part No.
   - **Qty:** integer input
   - **Remarks:** add button (Green – have remarks, Red – no remarks)
   - **Action**: remove button

vi. Process section consist of:
   - **Add Row**: button to add empty row

- **No.**
- **Process:** dropdown based on Process database
- **Process Number:** integer input
- **Raw-Part:** multiselect dropdown search based on the section iii,iv and v.
- **Sub-Part:** multiselect dropdown search based on the section iii,iv and v.
- **Supplier:** dropdown search based on supplier database (if have subcon)
- **Machine:** dropdown search based on machine database
- **Machine Tonnage:** multiselect dropdown search based on machine tonnage database
- **Cavity:** integer input
- **CT:** integer input
- **Action**: remove button

5. If user click “Add Material” or “Add Subpart” button, a Product List will pop up in a modal as following for user to select:

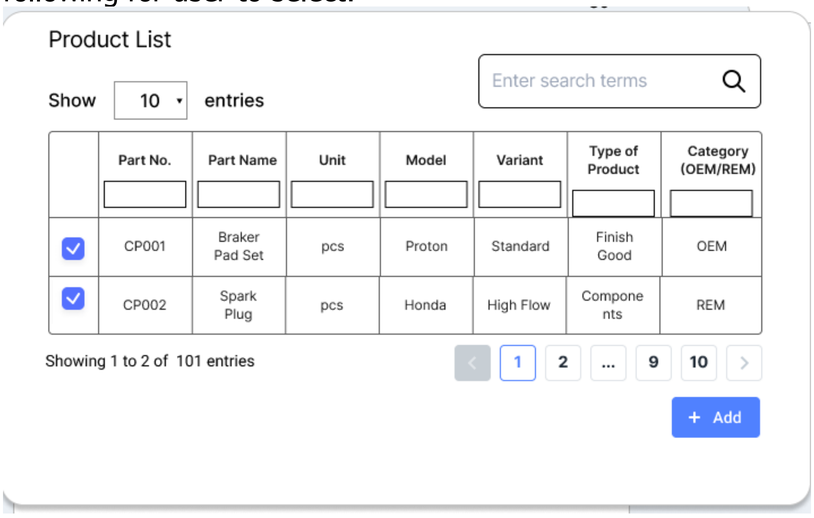


Figure 80: Search Product to Add

i. The modal consists of:
   - Entries filter
   - Search box
   - Search based on column
   - Checkbox for each product
   - Part No.: auto display from Product database
   - Part Name: auto display from Product database
   - Unit: auto display from Product database
   - Model: auto display from Product database
   - Variance: auto display from Product database
   - Type of Product: auto display from Product database
   - Category: auto display from Product database
   - Pagination
   - Add: button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table.

6. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

7. The status can be divided into:
   - Submitted (Yellow) – after created
   - Verified (Light Blue) - if user click verify button.
   - Declined (Orange) - if user click decline button.
   - Cancelled (Red) - if user click cancel button.
   - Inactive (No colour) - if user click Inactive button.

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Display all information from the latest saved state in read-only mode.

<u>Action: Edit</u>

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

<u>Action: Verify</u>

1. Display all information from the latest saved state in read-only mode.
2. Verify, Decline and Cancel button is available at the bottom of the page.

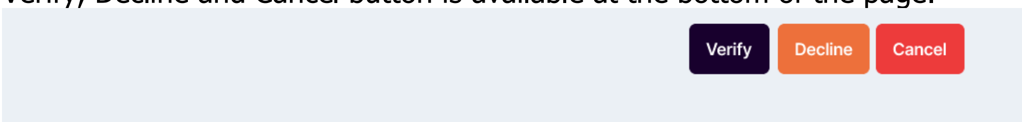


Figure 81: Verify section.

3. Once user click <Verify>, Date, Username, Designation and department will be auto display based on the current date and user information.

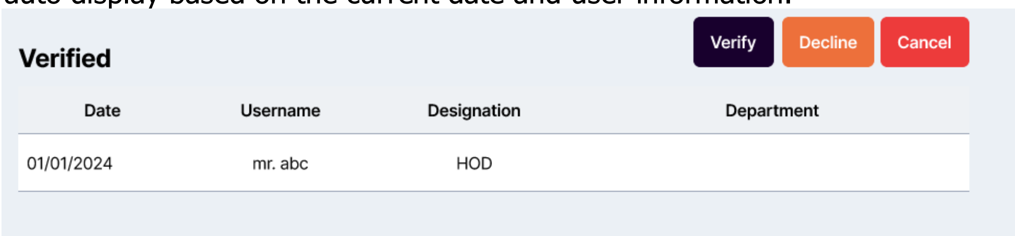


Figure 82: After click verify button

4. Click <Save> for the changes to be applied.

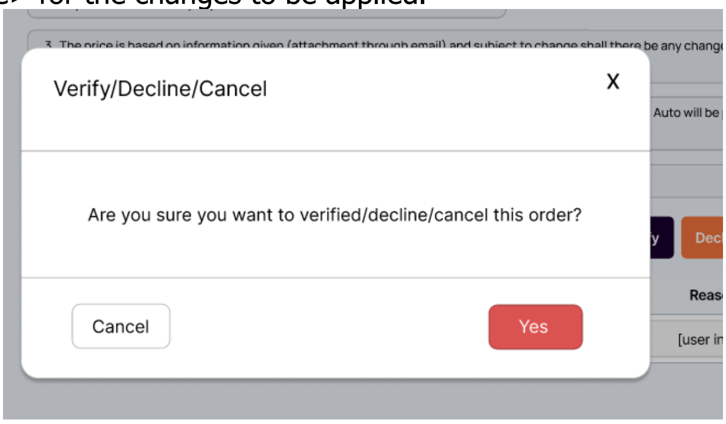


Figure 83: Cancel popup confirmation

5. Status of the record will change to “Verified”.
6. User cannot edit anymore once verified and verify action can only be done one time.
7. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

Figure 84: After click Decline button

8. Once saved, status will change to “Declined”.
9. If user click <Cancel> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.

Figure 85: After click cancel

10. If the form is edit after decline action, the status will revert back to “Submitted”. The user will need to verify the form again.

Notes:
- A notification will be sent if verification is not done within 1 hour.

Action: Inactive
1. If user click this action, it will inactive the BOM (cannot be proceeded any further) and create a duplicate version of the BOM.
2. The Revision No. will be incremented (e.g. from 1 to 2)
3. The Revision No. will be added at the last digit at the BOM Ref No but the user can still edit the Ref No.

Action: Delete
1. User can delete a record.

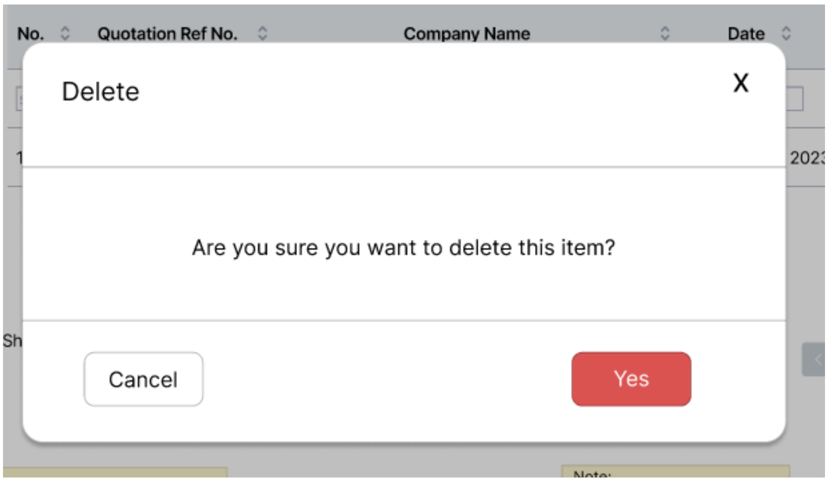


Figure 86: Delete action.

3.2.2 BOM Report

A. List

1. It shows a report's filter and list of BOM.

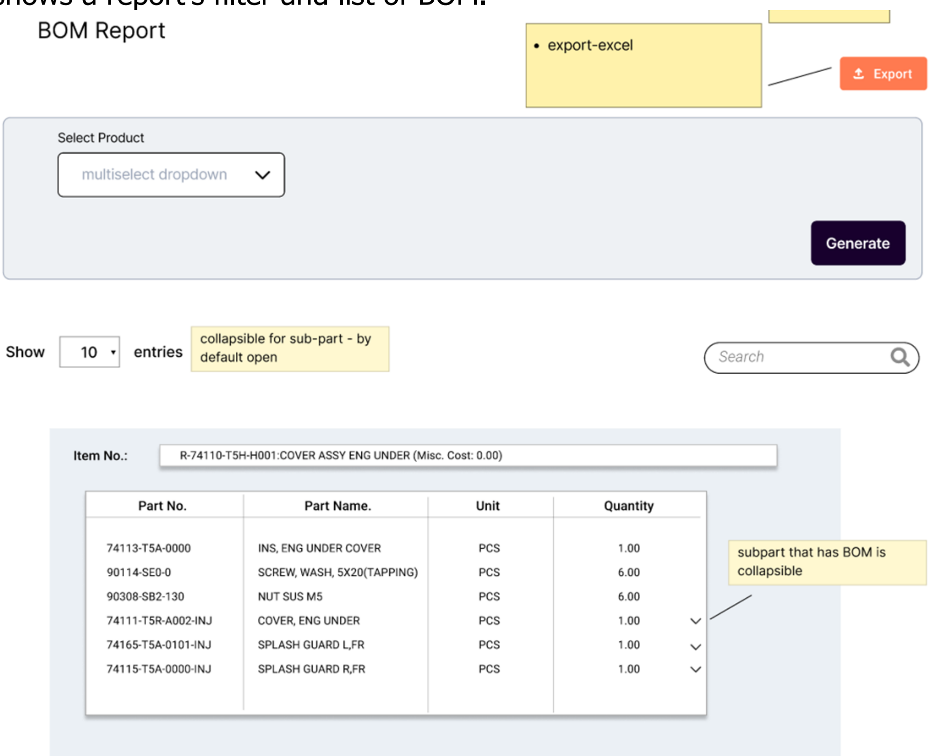


Figure 87: BOM Report

2. Generated after a BOM is created.
3. At the filter section, it consists of:

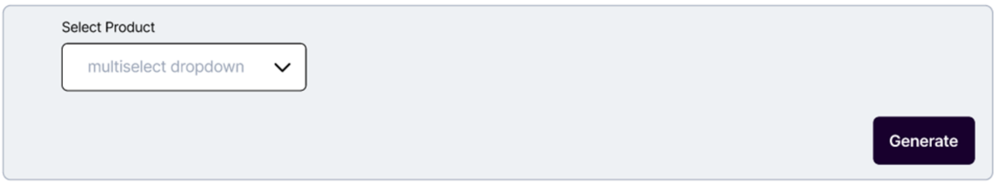
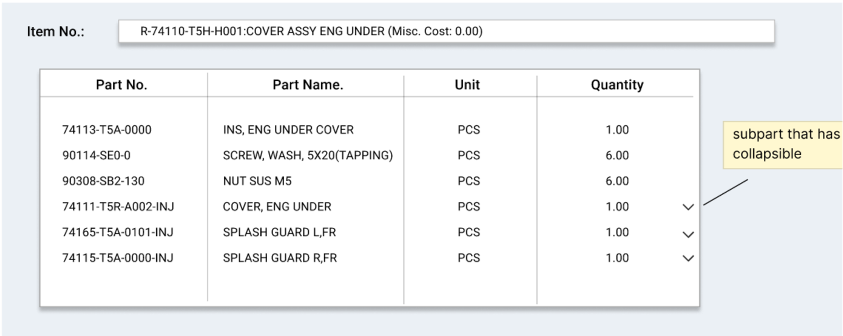


Figure 88: Filter section

- Search button
- **Part No.:** multiselect dropdown with search based on Product database

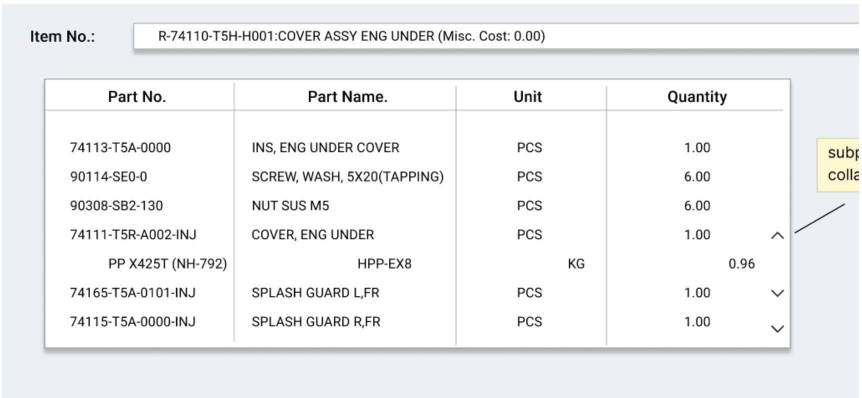
4. The list will show several columns below:
   i. Product
   ii. Part No.
   iii. Part Name
   iv. Unit
   v. Quantity


Item No.: R-74110-T5H-H001:COVER ASSY ENG UNDER (Misc. Cost: 0.00)

Part No.	Part Name.	Unit	Quantity
74113-T5A-0000	INS, ENG UNDER COVER	PCS	1.00
90114-SE0-0	SCREW, WASH, 5X20(TAPPING)	PCS	6.00
90308-SB2-130	NUT SUS M5	PCS	6.00
74111-T5R-A002-INJ	COVER, ENG UNDER	PCS	1.00
74165-T5A-0101-INJ	SPLASH GUARD L,FR	PCS	1.00
74115-T5A-0000-INJ	SPLASH GUARD R,FR	PCS	1.00

Figure 89: Product BOM details

5. User can click the expand or collapse icon to view the child part details.


Item No.: R-74110-T5H-H001:COVER ASSY ENG UNDER (Misc. Cost: 0.00)

Part No.	Part Name.	Unit	Quantity
74113-T5A-0000	INS, ENG UNDER COVER	PCS	1.00
90114-SE0-0	SCREW, WASH, 5X20(TAPPING)	PCS	6.00
90308-SB2-130	NUT SUS M5	PCS	6.00
74111-T5R-A002-INJ	COVER, ENG UNDER	PCS	1.00
PP X425T (NH-792)	HPP-EX8	KG	0.96
74165-T5A-0101-INJ	SPLASH GUARD L,FR	PCS	1.00
74115-T5A-0000-INJ	SPLASH GUARD R,FR	PCS	1.00

Figure 90: Expand or collapse details

6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on main search field at the top.

3.3 PPC

3.3.1 Monthly Production Planning

1. MPP has to be generated for every monthly production before proceed Daily Production Planning.
2. Export button (as csv) is available at the page.
3. The page will show the following fields and tables: -
   i. **Order No.**: dropdown based on registered Order
   ii. **Select Customer**: dropdown based on customer database
   iii. **Select Order Month**: monthpicker
   iv. **Generate**: button
4. If "Generate" button is clicked, two tables will be displayed (based on the selected Order No., Customer and Order month):

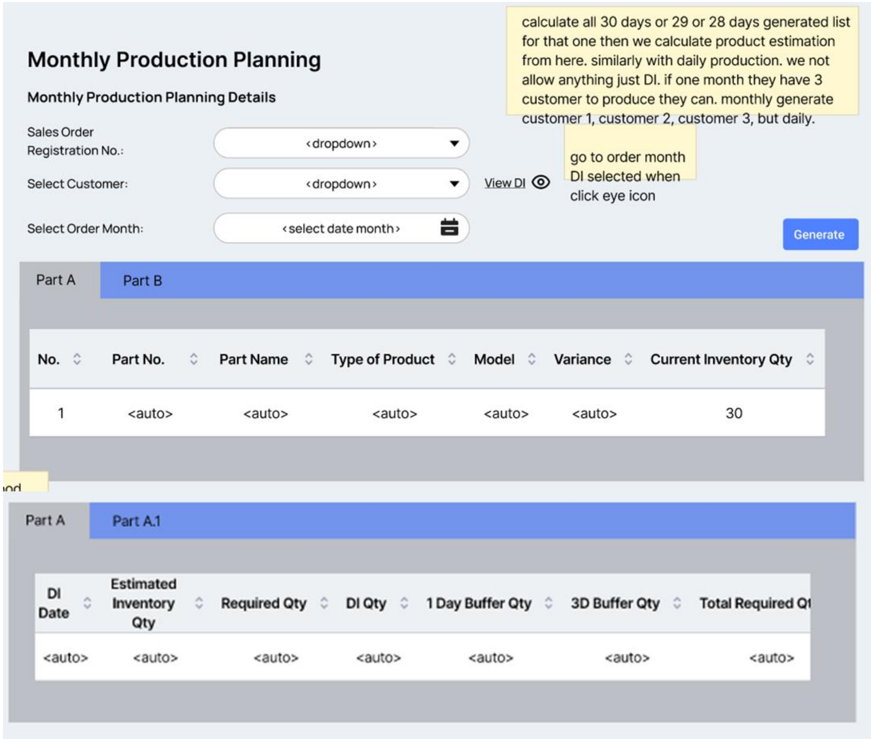


Figure 91: After click Generate button

i. **Product table consist of:**
- No.
- Part No.
- Part Name
- Type of Product
- Model
- Variance
- Current Inventory Qty

ii. **DI table consist of:**
- DI Date
- Estimated Inventory Qty
- Required Qty
- DI Qty
- 1 Day Buffer Qty
- 3D Buffer Qty
- Total Required Qty: Required Qty + 3D Buffer Qty
- Estimated Produced Qty: Total Required Qty - Estimated Inventory Qty

3.3.2 Daily Production Planning

A. List

1. It shows list of records.
2. User can create new planning.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Order No.
   iii. Customer
   iv. Order Month
   v. Planning Date
   vi. Created By
   vii. Created Date
   viii. Status
   ix. Action

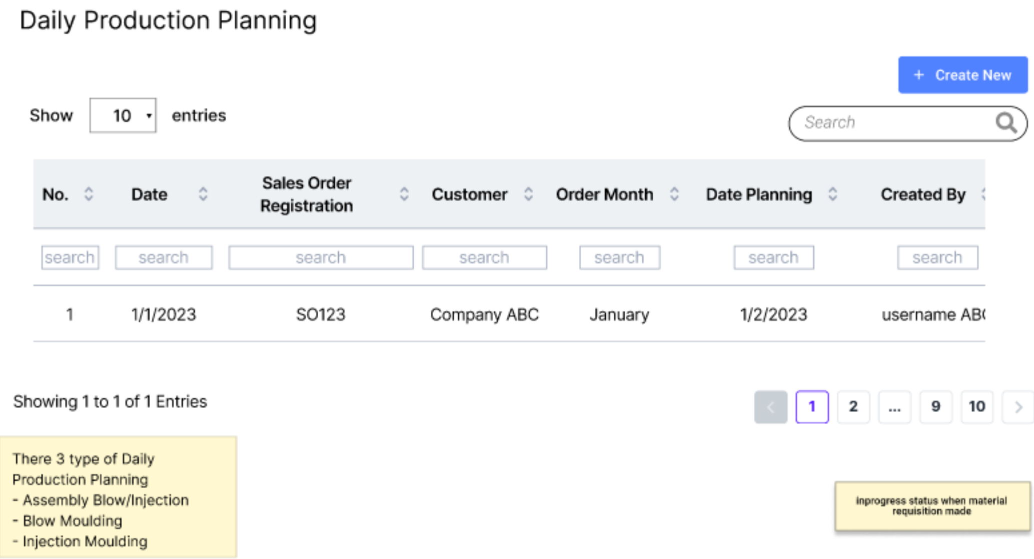


Figure 92: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill in the create form:

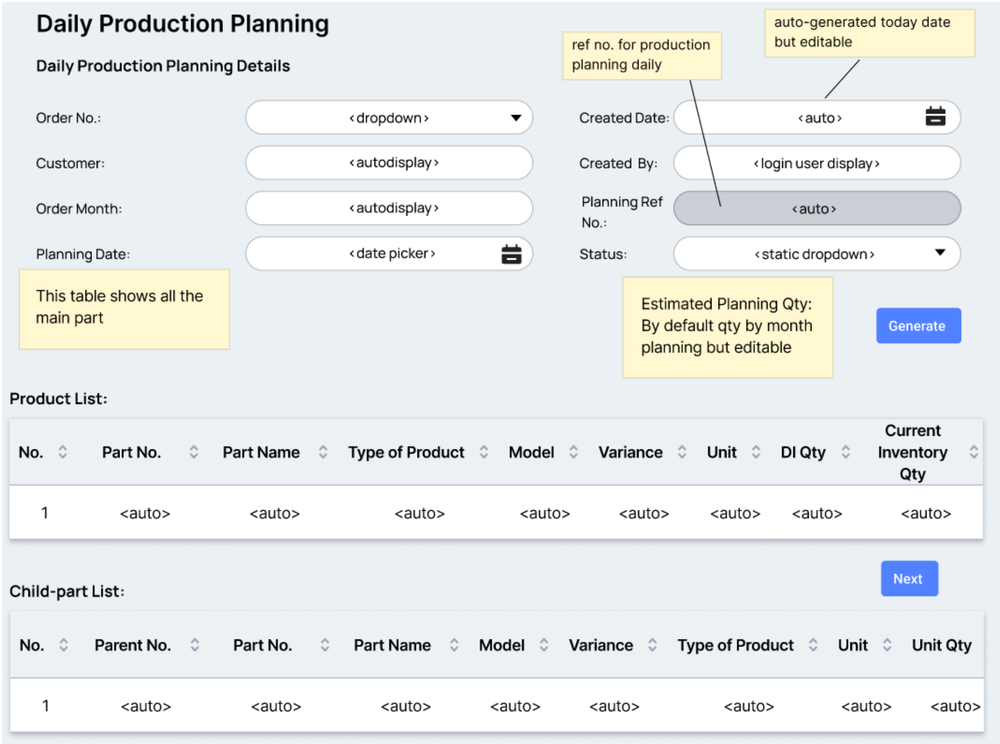


Figure 93: Information key-in

i. Daily Production Planning section consist of:
- **Order No.:** dropdown based on registered Order No.
- **Customer**: auto display based on selected Order No.
- **Order Month**: auto display based on selected Order No.
- **Planning Date**: datepicker
- **Created Date.:** auto current date
- **Created By.:** auto current logged in user
- **Planning Ref No.:** auto running no. [Format: PLN/running no./yyy]
- **Status:** static dropdown

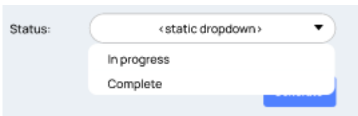


Figure 94: Status dropdown

- **Generate:** button

2. If "Generate" button is clicked, product table will be displayed (based on the selected Order No. above):

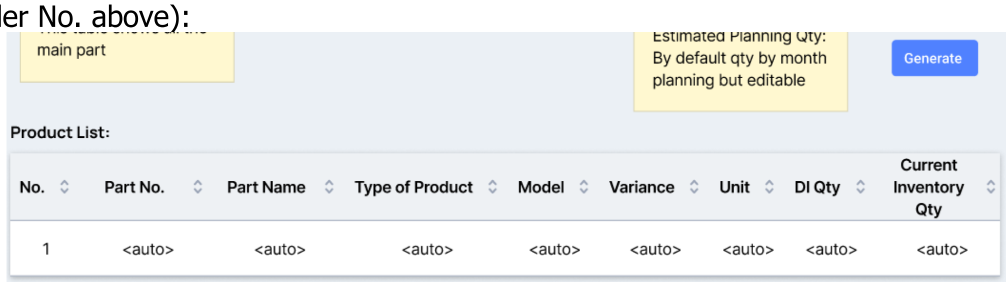


Figure 95: After click Generate button

i. Product table (auto based on monthly planning) consist of:
- No.
- Part No.
- Part Name
- Type of Product
- Model
- Variance
- Unit
- DI Qty
- Current Inventory Qty
- Estimated Total Required
- Estimated Planning Qty: Estimated Total Required- Current Inventory Qty, editable

3. If user click "Next" button, it will generate the Child - part product planning table:

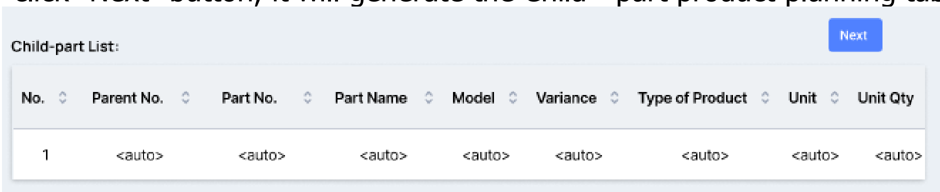


Figure 96: After click Next button

i. Child – part list (auto based on monthly planning) consists of:
- No.
- Parent Part No.
- Part No.
- Part Name
- Type of Product
- Model
- Variance
- Unit
- DI Qty
- Total Required Qty
- Current Inventory Qty
- Estimated Total Required
- Estimated Planning Qty: Estimated Total Required- Current Inventory Qty, editable

4. If user click "Next >> Scheduling" button, it will redirect to the Scheduling page. The page will show the following list: -

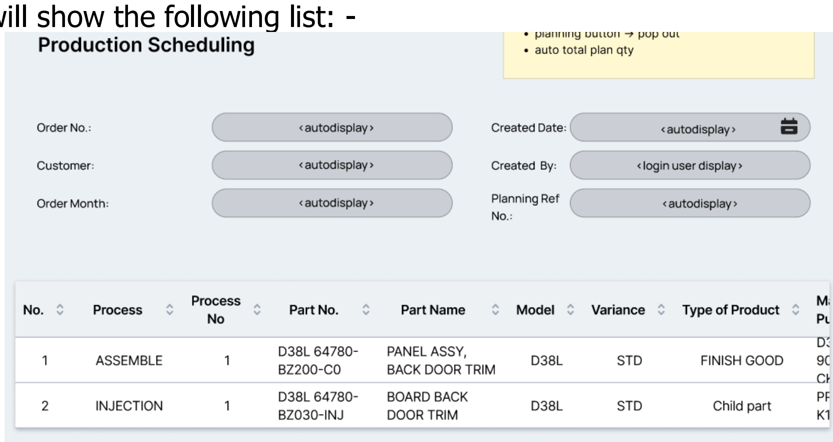


Figure 97: Scheduling list

i. Order No.: auto based on selected DPP
ii. Customer: auto based on selected DPP
iii. Order Month: auto based on selected DPP
iv. Created Date: auto based on selected DPP
v. Created By: auto based on selected DPP
vi. Planning Ref No.: auto based on selected DPP
vii. The table (based on BOM) consist of:
   - Process
   - Process No.
   - Part No.
   - Part Name
   - Model
   - Variance
   - Type of Product
   - Material and Purchase Part
   - Child Part
   - CT (s)
   - Total Planned Qty: auto based on Planned Qty at <Planning>
   - Action: <Planning> button
viii. If user click <Planning> button, a popup will be displayed as following:
   - Planning Ref No.: auto based on selected DPP
   - Part No.: auto based on selected DPP
   - Part Name: auto based on selected DPP
   - Process: auto based on selected DPP
   - Total Plan Qty: auto based on selected DPP
   - Plan Qty: auto based on the sum of Planned Qty at the Scheduling table
   - Add Row: button to add new row
   - Scheduling table

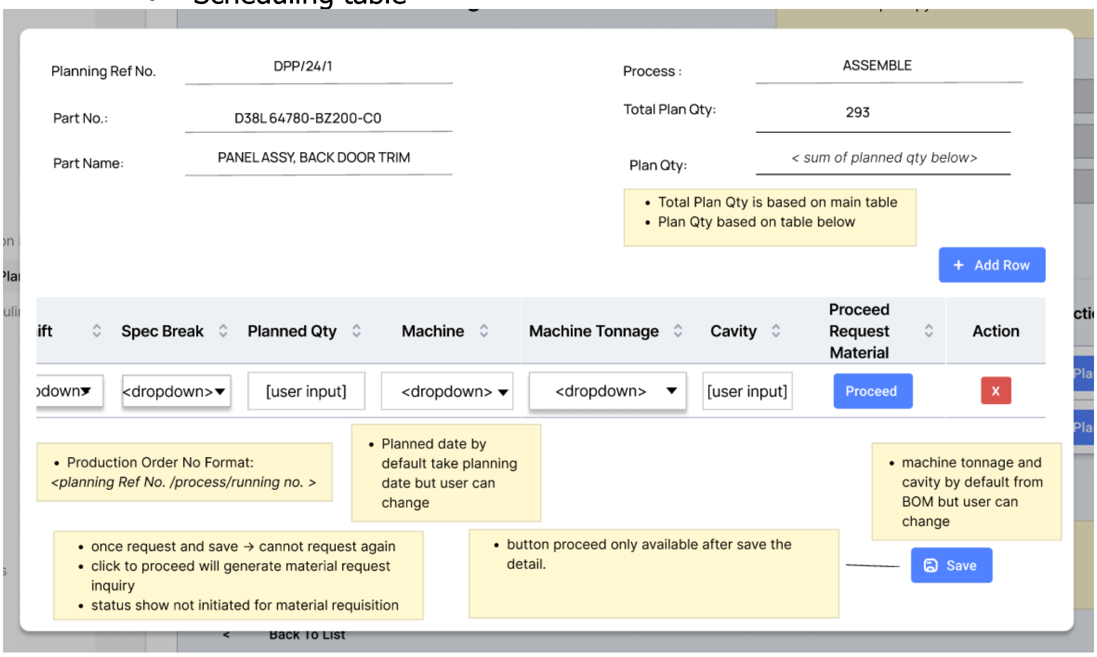


Figure 98: Scheduling - Planning modal

ix. The scheduling table consist of:
- Production Order No.: auto running no. [format: Planning Ref No./process/running no.]
- Planned Date: datepicker, auto based on Planning Date (DPP)
- Operator Name: multiselect search dropdown
- Shift: static dropdown

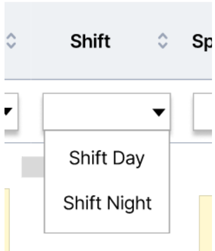


Figure 99: Shift dropdown

- Spec Break: dropdown

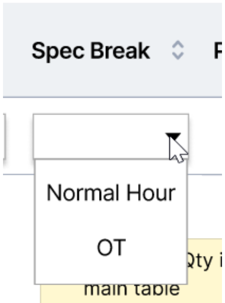


Figure 100: Spec Break dropdown

- Planned Qty: integer input
- Process: dropdown based on process database
- Machine: auto based on BOM but editable dropdown based on machine database
- Machine Tonnage: auto based on BOM but editable dropdown based on machine tonnage database
- Cavity: auto based on BOM but editable
- Proceed Request Material: Proceed button (Only available after the form is saved. If clicked, it will auto create MRP Planning)

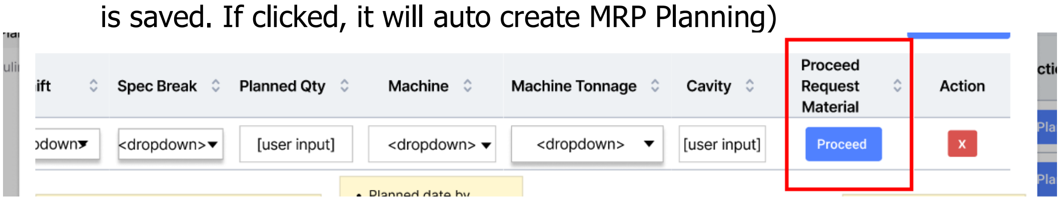


Figure 101: Proceed button

x. Save button to save the changes.

5. If user click "Proceed Request Material", it will redirect user to MRP Planning:

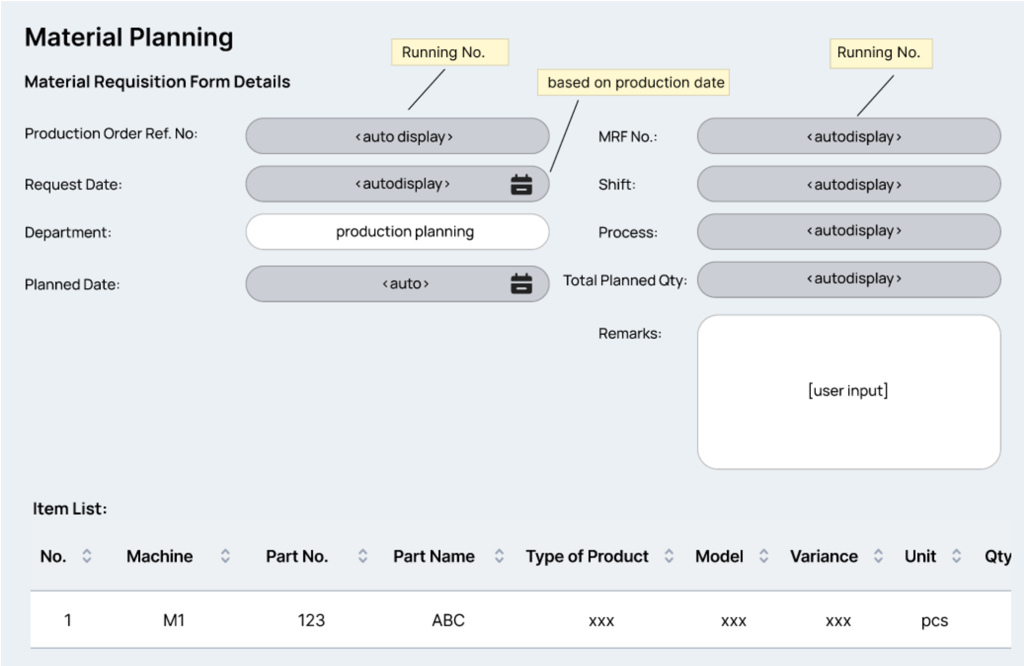


Figure 102: MRP Planning

i. Production Order No.: auto based on scheduled Production Order no.
ii. Requested Date: auto current date
iii. Department: auto based on requester’s department
iv. Planned Date: auto based on scheduled Production Order no.
v. MRF No.: auto running no. [Format: MRF/running no./yyyy]
vi. Shift: auto based on scheduled Production Order no.
vii. Process: auto based on scheduled Production Order no.
viii. Total Planned Qty: auto based on scheduled Production Order no.
ix. Remarks: textarea input
x. A table consist of:
    - No.
    - Machine/ Line: auto based on the Production Order no.
    - Part No.: auto based on the Production Order no.
    - Part Name: auto based on the Production Order no.
    - Type of Product: auto based on the Production Order no.
    - Model: auto based on selected Production Order no.
    - Variance: auto based on selected Production Order no.
    - Unit: auto based on selected Production Order no.
    - Quantity from BOM: auto
    - Current Qty from Store: auto
    - Request Qty from Store: integer input
    - Current Qty from Production: auto
    - Request Qty from Production: integer input
    - Total Requested Qty: auto sum
    - Difference (Total Request – BOM Qty): auto deduct
xi. If click <Save>, MRF will be auto created to Store or Production.

6. At the bottom there are several buttons:
    - <Save> button to save and the record will be listed in the main list.
    - <Back to list> button is on the bottom left of the page if user want to cancel.

7. The status can be divided into:
   - In Progress (Light Yellow) – based on assigned status
   - Completed (Green) – based on assigned status

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Same as 3.2.1.B view action.

<u>Action: Edit</u>

1. Same as 3.2.1.B edit action.
2. Cannot be edited once Proceed Request Material.

<u>Action: Delete</u>

1. Same as 3.2.1.B delete action.

3.3.3 Scheduling

1. It shows a calendar of events where it consists of the scheduled production as below:

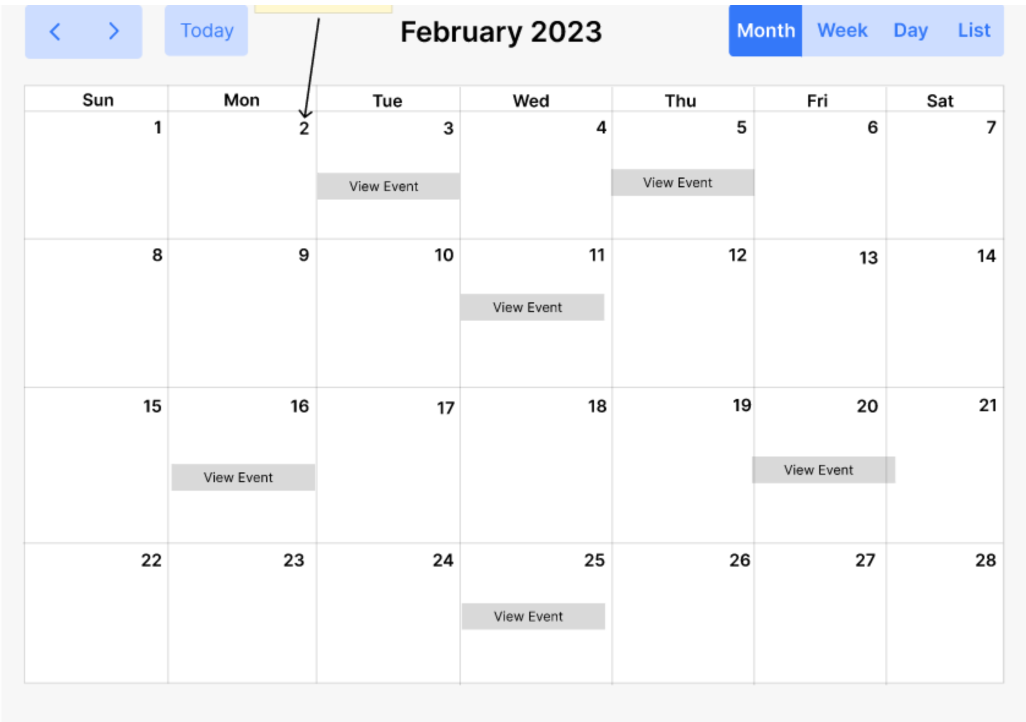


Figure 103: Scheduling calendar

2. If user click "View Event", it will pop up the following details:
   - **Title**
   - **Date**
   - **Entries filter:** 10,25,50,100
   - **Search box**

- **Table of information**: Production Order No., Machine, Process, Shift and Status (Start – Green, Pause – Orange and Stop – Red)

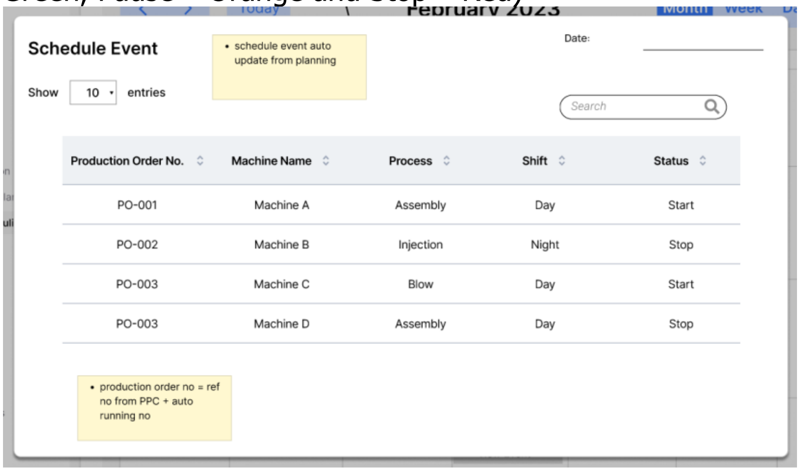


Figure 104: Scheduling view event

3.4 Production

3.4.1 Daily Production Output

A. List

1. It shows list of production output records.
2. Generated after scheduling – proceed material request is done.
3. The list will show several columns below:
   i. Advanced Search filter
   ii. Sr#
   iii. Production Date
   iv. Production Order No.
   v. Process
   vi. Part No.
   vii. Part Name
   viii. Shift
   ix. Operator Name
   x. Total Produced
   xi. Total Rejected Qty
   xii. Total Good Qty
   xiii. Status
   xiv. Action

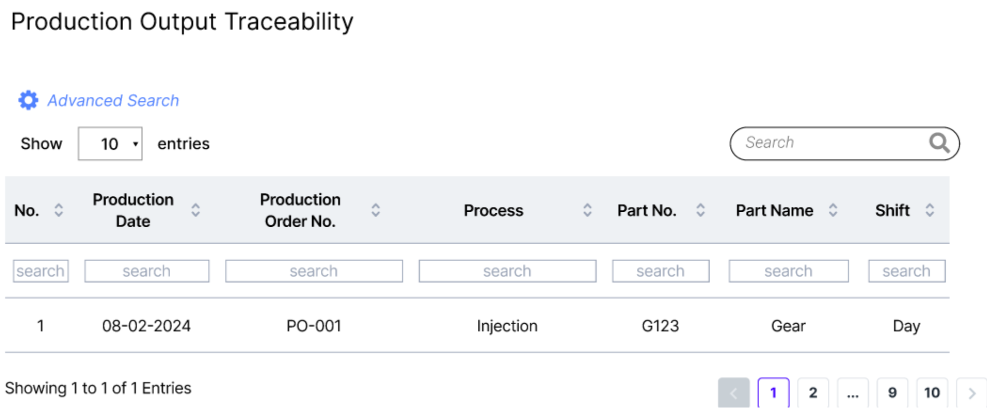


Figure 105: List

4. If user click on the Advanced Search, it will show the following filter:

Figure 106: Filter section

- Search button
- **Date range**: start date picker and end date picker

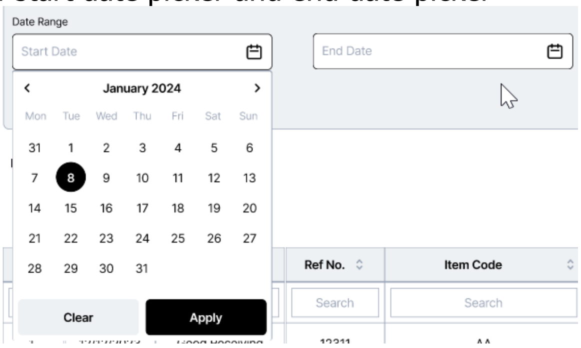


Figure 107: Date range picker (start date and end date)

- **Process:** multiselect dropdown with search
- **Production Order No.:** multiselect dropdown with search
- **Part No.**: multiselect dropdown with search

5. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. QC
   iv. Delete
6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on each column or at main search field at the top.
8. User can sort column in increasing or decreasing order.
9. The status can be divided into:
   - Start (Green) - if user click Start button
   - Pause (Orange) – if user click Pause button
   - Stop (Red) - if user click Stop button
   - QC Done (Light Blue) – if user has done QC action

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights.

Action: View

1. Display all information in Read-only mode.

Action: Edit

1. Display all information in Read-only mode.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

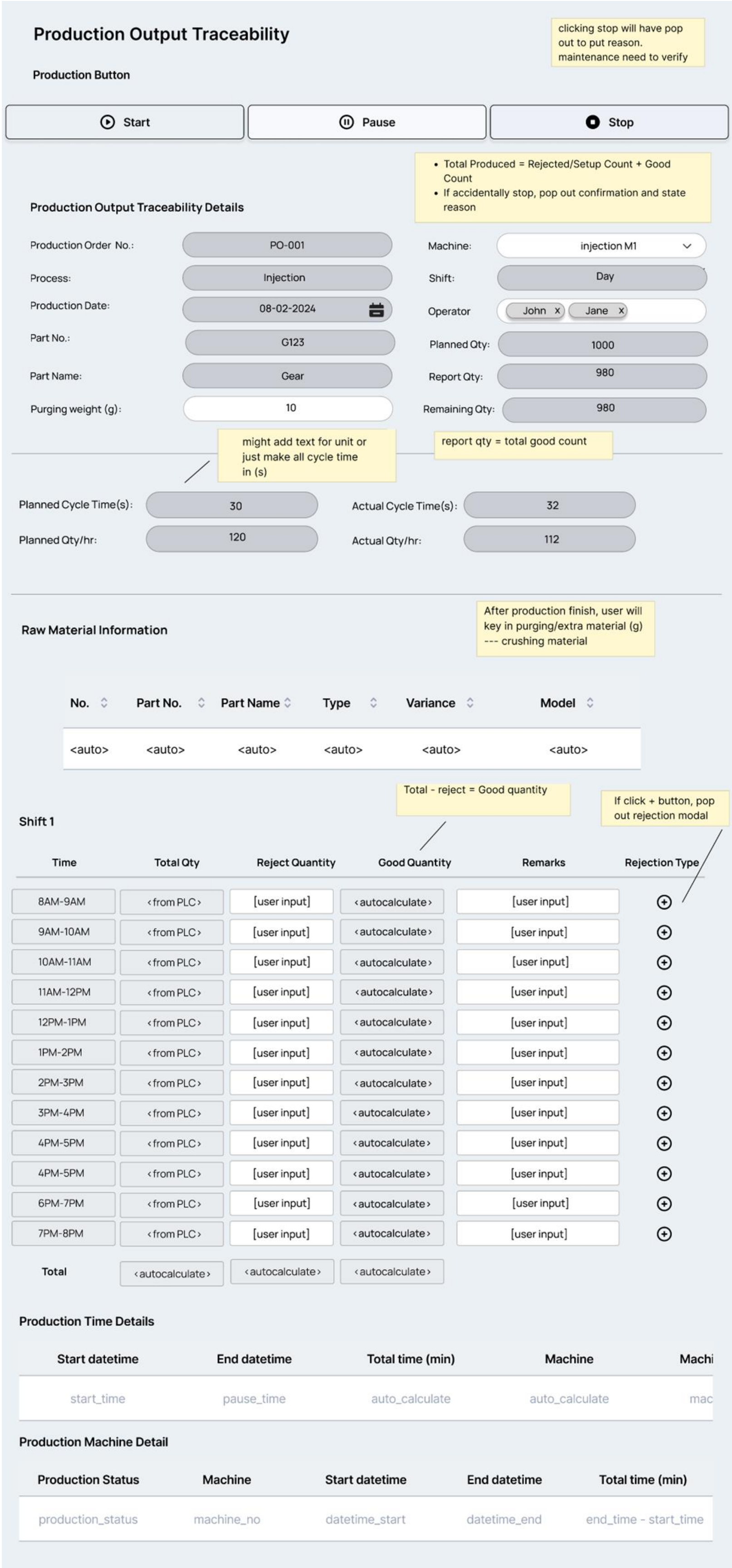


Figure 108: Production Output form

i. Production Button consist of:
- Start
- Pause
- Stop (if user click, a popup will be displayed to state reason)

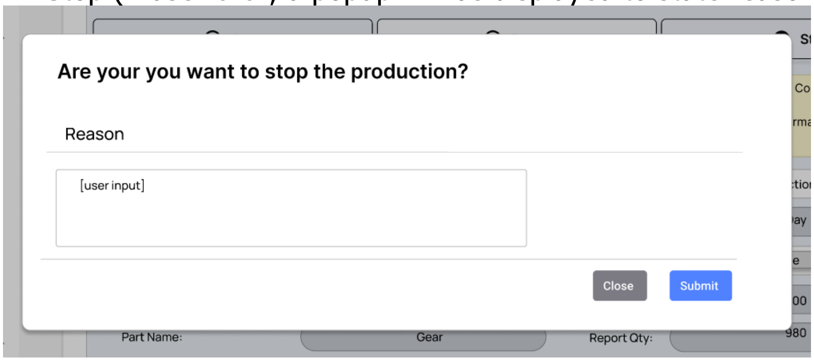


Figure 109: After click Stop button

ii. Production Output Traceability Details section consist of:
- **Production Order No.:** auto based on daily production planning
- **Process:** auto based on daily production planning
- **Production Date:** auto based on daily production planning but editable
- **Part No.:** auto based on daily production planning
- **Part Name:** auto based on daily production planning
- **Purging/ Crushing Weight (g):** input integer
- **Machine:** auto based on daily production planning but editable
- **Shift:** auto based on daily production planning
- **Operator:** auto based on daily production planning, but editable (multiselect dropdown with search)
- **Planned Qty:** auto based on daily production planning
- **Reported Qty:** auto based on Good Quantity total
- **Remaining Qty:** Planned Qty – Reported Qty
- **Planned Cycle Time (s):** auto based on daily production planning
- **Actual Cycle Time (s):** auto based on average cycle time from hardware
- **Planned Qty/hr:** auto based on daily production planning
- **Actual Qty/hr:** auto based on actual average good quantity

iii. Raw Material Information table (auto based on production scheduling) which consists of:
- **No.**
- **Part No.**
- **Part Name**
- **Type of Product**
- **Variance**
- **Model**

iv. Shift Information table which consists of:
- **Time:** fixed hourly time as shown in the figure
- **Total Qty:** from PLC (Rejected Qty/Setup Qty + Good Qty)
- **Reject Quantity:** integer input
- **Good Quantity:** auto from Total Qty – Reject Quantity
- **Remarks:** text box
- **Rejection Type:** Add button
- **Total Qty:** auto display

- **Total Reject Quantity:** auto display
- **Total Good Quantity:** auto display

v. Production time detail section which consists of:
- **Start datetime**: production order is started
- **End dateime**: production order is stopped
- **Total time (min)**: End datetime – start datetime
- **Machine**: auto based on assigned machine
- **Machine Count**: auto based on Total Qty

vi. Production machine detail section which consists of:
- **Production Status**: auto based on machine status (production, downtime or machine preparation)
- **Machine**: auto based on machine status (production, downtime or machine preparation)
- **Start datetime**: auto based on collected data from hardware
- **End datetime**: auto based on collected data from hardware
- **Total time (min):** End datetime – start datetime

2. If user click "+" at Rejection Type column, it will pop up the following for user to key in:

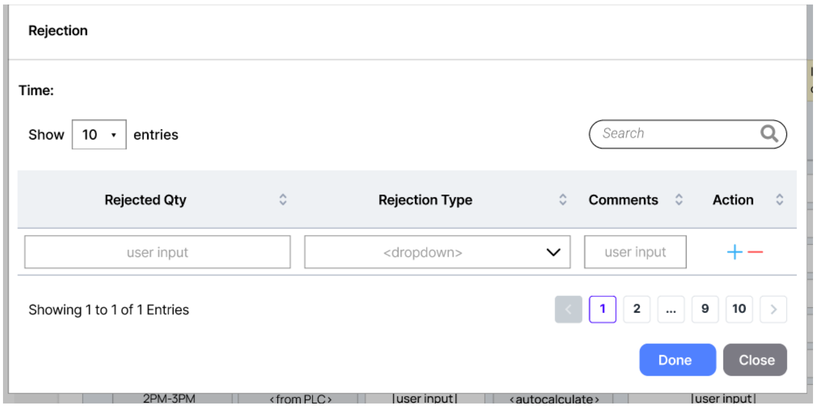


Figure 110: Add rejection type

i. Title
ii. Time: selected hour
iii. Entries filter
iv. Main search box
v. Search by column
vi. Table of rejection which consist of:
- Rejected Qty: integer input
- Rejection Type: dropdown based on Type of Rejection database
- Comment: text input
- Action: add or remove row

<u>Action: QC</u>

1. Display all extracted information from last saved state as Read-only mode.
2. Authorized user can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.
4. The product table have additional Total (By QC) row under the Shift output data which are:

i. **Total Qty:** auto display
ii. **Total Reject Quantity:** auto based on rejected qty keyed in at "+".
iii. **Total Good Quantity:** Total Qty – Total Reject Qty
iv. **"+" button:** add rejection type and quantity (same as in Edit action Point 2)

Figure 111: Total (By QC) to be keyed in by QC

<u>Action: Delete</u>

1. User can delete a record.

3.4.2 Summary Report

A. List

1. It shows a report's filter and summary report.
2. By default, will show top ten machine or product.

Figure 112: Summary Report

3. At the filter section, it consists of:

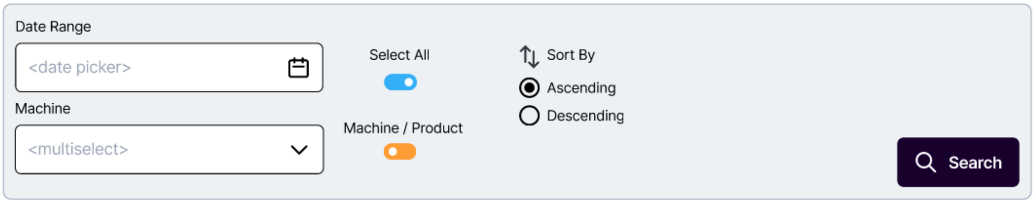


Figure 113: Filter section

- Search button
- **Date range**: start date picker and end date picker

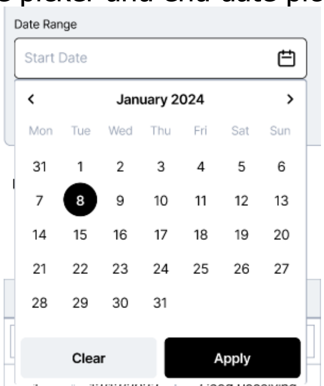


Figure 114: Date range picker (start date and end date)

- **Select All**: toggle button
- **Machine:** multiselect dropdown with search based on machine database
- **Product:** multiselect dropdown with search based on product database
- **Sort By:** sorting function (increasing or decreasing)

4. If user click the <Search> button, it will display the graph for the following parameter:

   i. Production time (hrs)
   ii. Production time (%)
   iii. Down time (hrs)
   iv. Down Time (%)
   v. Setup Time (hrs)
   vi. Setup Time (%)
   vii. Setup frequency
   viii. Rejected (pcs)
   ix. Rejected (kg)
   x. Rejected (%)
   xi. Planned vs Actual Qty (pcs)

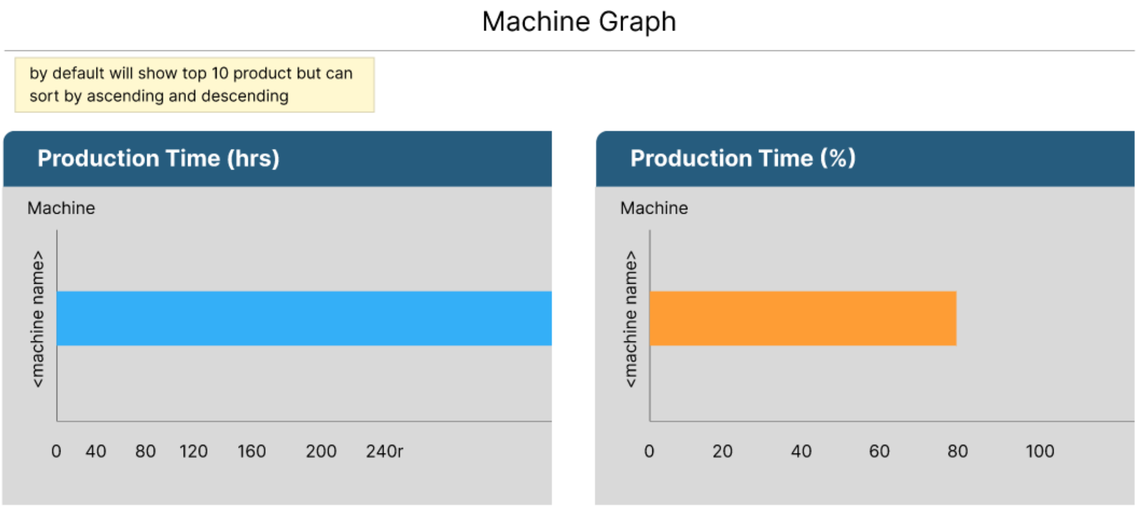


Figure 115: Machine Graph sample

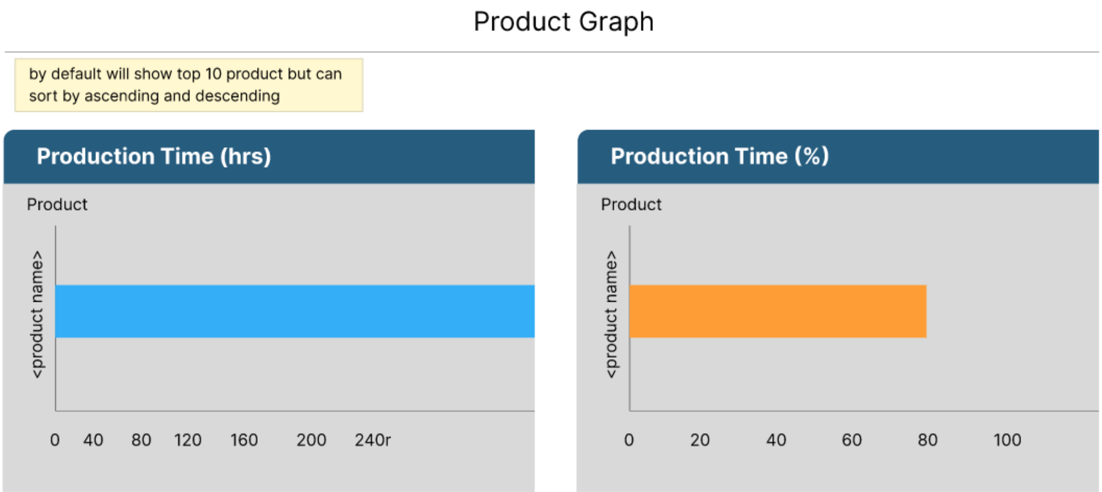
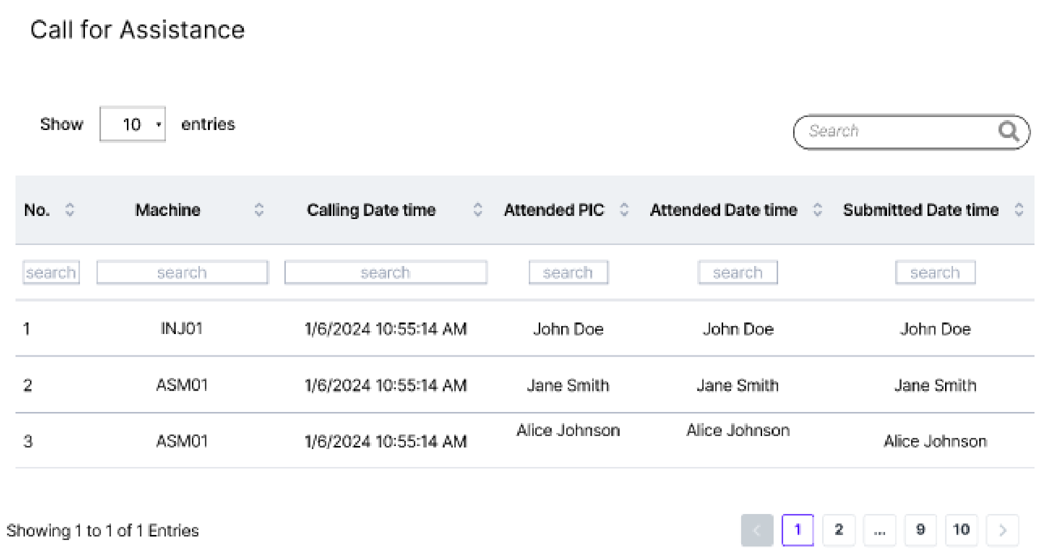


Figure 116: Product Graph sample

3.4.3 Call for Assistance

A. List

1. It shows list of records.
2. The record is auto generated in this list when call for assistance physical button.
3. The list will show several columns below:
   i. Sr#
   ii. Machine
   iii. Calling Datetime
   iv. Attended PIC
   v. Attended Datetime
   vi. Submitted By
   vii. Submitted Datetime
   viii. Status
   ix. Action



-

Figure 117: List

4. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
5. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
6. User can search based on each column or at main search field at the top.
7. User can sort column in increasing or decreasing order.
8. User can click "Create" button to create new record.
9. The status of the record can be divided into:
   - In progress (Yellow) – after Call for Assistance physical button is switched on
   - Submitted (Blue) - if user click Save button.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights.

Action: View

1. Display all information in Read-only mode.

Action: Edit

1. User can only edit Attended PIC, Image and Remarks. The form consists of the following details:
   - **Machine**: auto based on collected data from hardware
   - **Calling Datetime**: auto based on when the Call for Assistance physical button is switched on
   - **Attended PIC**: multi search dropdown based on user database
   - **Attended Date**: auto generated after the Call for Assistance physical button is turned off
   - **Submitted By**: auto generated based on current logged in user
   - **Submitted Date**: auto generated after user click Save
   - **Description**: RTE input

- **Image**: png/jpg format

2. Save button is available in the bottom-right of the page.
3. Back button is available in the bottom-left of the page.

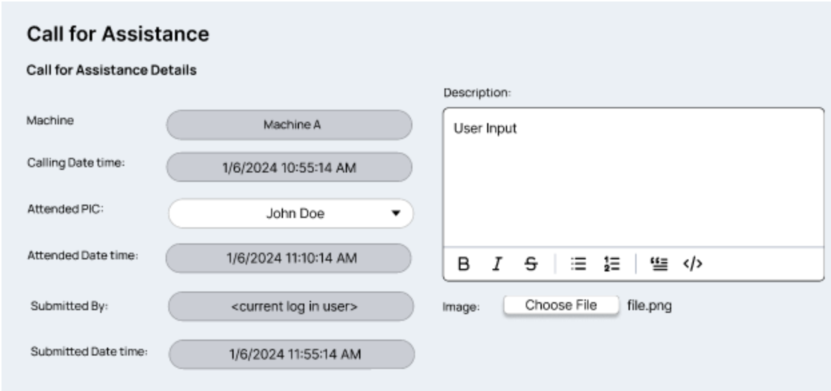


Figure 118: Call for assistance form.

Action: Delete

1. User can delete a record.

3.5 OEE

3.5.1 OEE Report

1. This page consists of filter and OEE graph as below:

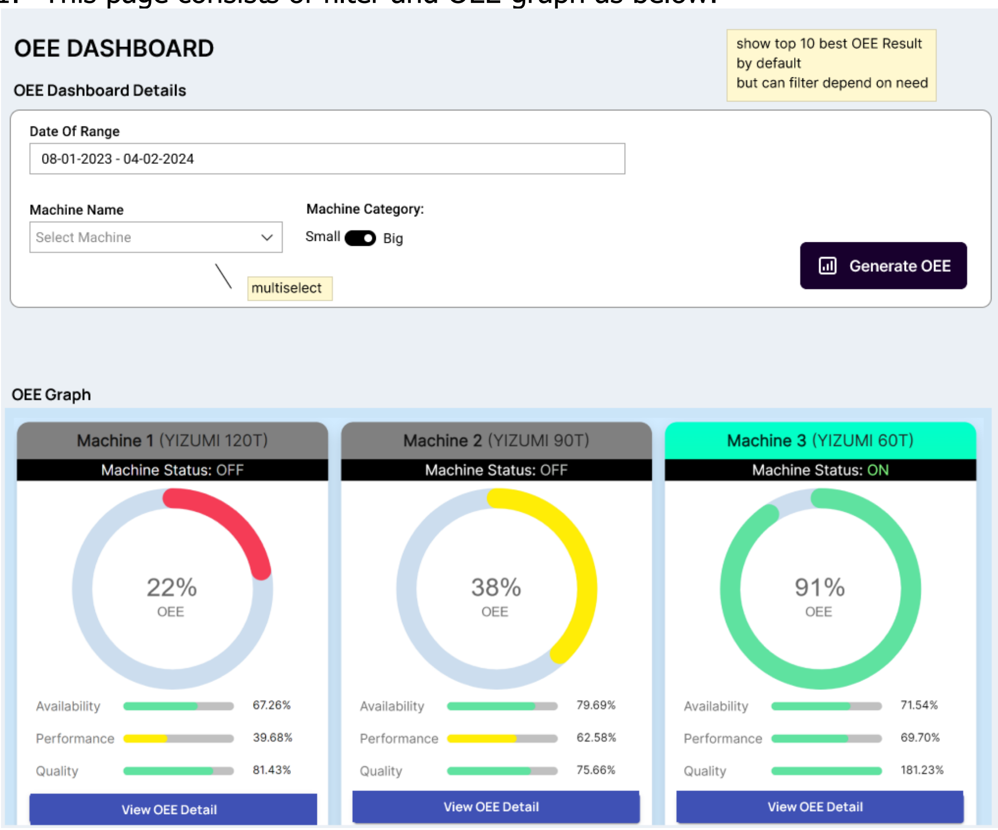


Figure 119: OEE Dashboard

2. At the filter, it consists:
    - Date Range: daterange picker

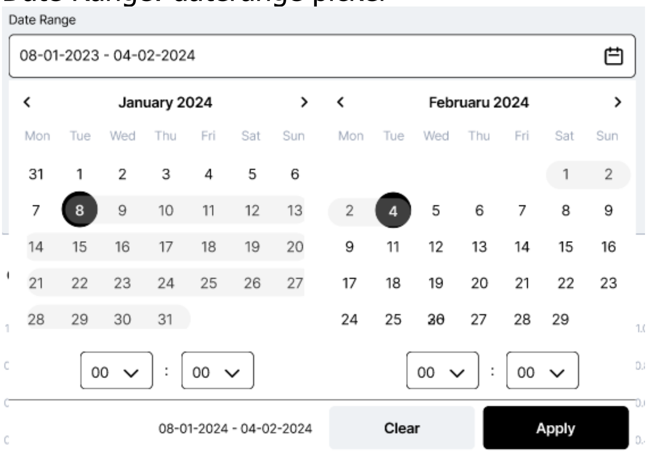


Figure 120: Date range selector

    - Machine: multiselect search dropdown

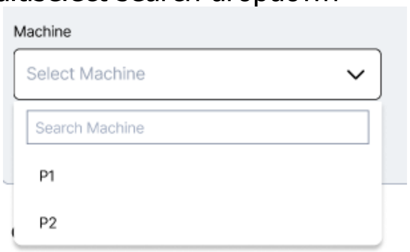


Figure 121: Machine dropdown

    - Machine Category: toggle button

Figure 122: Machine category toggle

3. User has to click Generate OEE button to view the OEE graph.

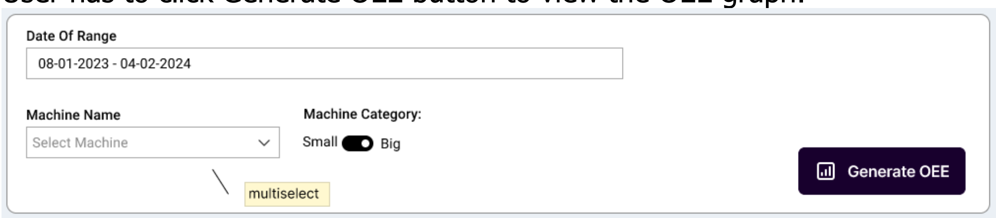


Figure 123: Generate OEE button

4. OEE graph show the factors percentage of machine:
    - Availability = (Operating Time/ Planned Production Time) * 100%
    - Performance = (Total Pieces/ Operation Time)/Ideal Run Rate * 100%
    - Quality = (Good Pieces/ Total Pieces) * 100%
    - OEE = A * P * Q

5. If user click <View OEE Detail>, a modal will popup which consist of:

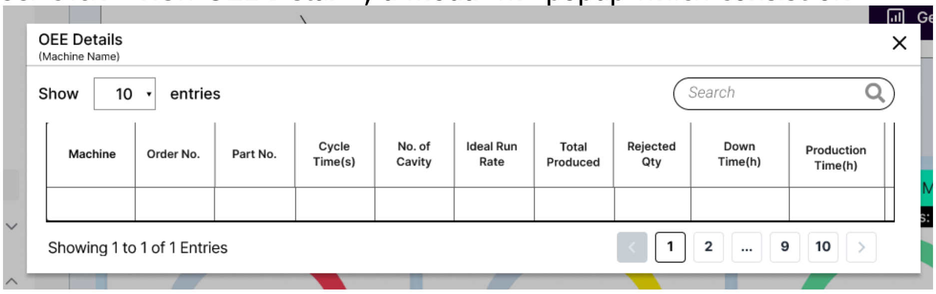


Figure 124: OEE table details

- Entries filter
- Search box
- Machine No.
- Order No.
- Part No.
- Cycle Time (s)
- No. of Cavity
- Ideal Run Rate
- Total Produced
- Rejected Qty
- Setup time (h)
- Downtime (h)
- Production Time (h)
- Availability (%)
- Performance (%)
- Quality (%)
- OEE (%)

6. Export button is for user to download the OEE details in csv format.

4 WMS

At the top navigation menu, there are four main menu which are **ERP**, **MES**, **WMS** and **Setting**. Under "**WMS**" module, it consists of several sub-module which are Warehouse, Dashboard and Report.

Figure 125: WMS Menu

4.1 Dashboard

4.1.1 Inventory Dashboard

1. Display all the current inventory status and quantity.
2. Has to set the min and max quantity at Product Reordering page first.
3. It shows the product table as well as the legend.
4. The legend and indicator consist of:
   - Available Quantity> 3D buffer (Green)
   - 1D Buffer < Available Quantity < 3D Buffer (Orange)
   - Available Quantity < 1D Buffer (Red)
   - Not Set (Grey)
5. The product table consist of:
   - Entries filter
   - Search box
   - Part No.
   - Part Name
   - 1D Buffer
   - 3D Buffer
   - Available Quantity
   - Status

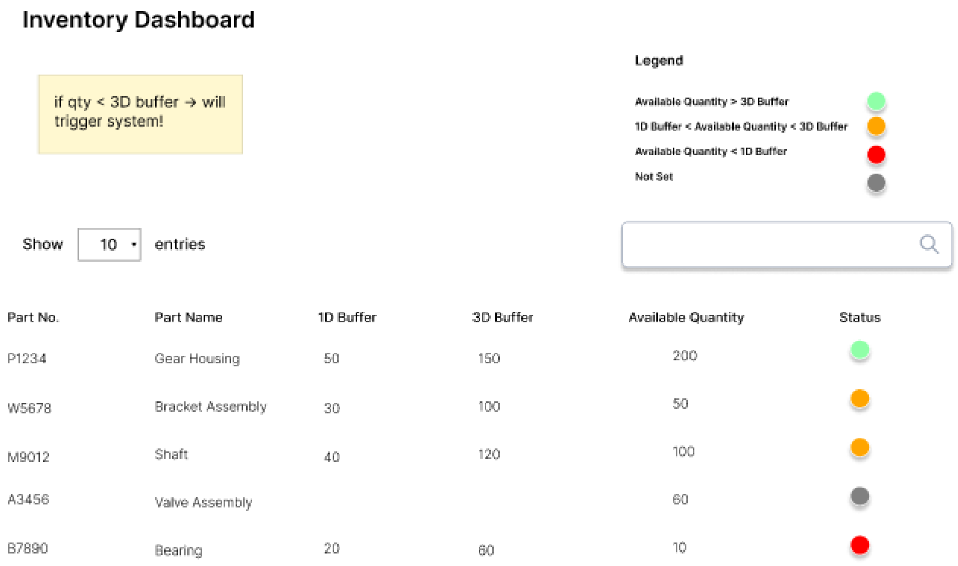


Figure 126: Inventory Dashboard

4.1.2 Inventory Shopfloor

1. Display all the inventory quantity based on area and shelf.

Figure 127: Inventory Dashboard

2. WMS area dropdown (static) is at the top right to change the inventory shopfloor accordingly:

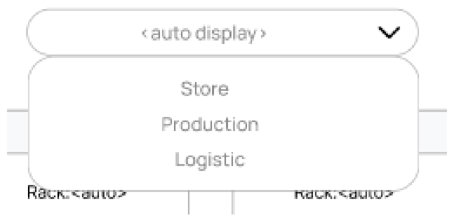


Figure 128: Static WMS area dropdown

3. If user click on the Rack name, it will pop up the detailed of the rack inventory quantity:
   - Rack location
   - Search box
   - Entries filter: 10, 25, 50, 100
   - Item details: Levels, Part No., Total, Action

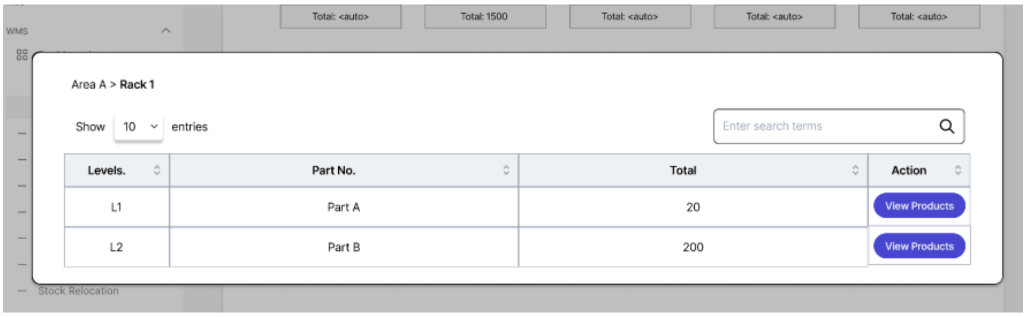


Figure 129: Inventory quantity based on rack

4. If user click on the View Products, it will pop up the detailed of the rack level inventory quantity:
   - Rack location
   - Search box
   - Entries filter: 10, 25, 50, 100
   - Item details: Part No., Part Name. Quantity

Figure 130: Inventory quantity based on rack levels

4.2 Warehouse

4.2.1 Delivery Instruction

A. List

1. It shows list of records.
2. User can create new DI.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Order No.
   iii. Customer Name
   iv. Order Month
   v. Created Date
   vi. Created By
   vii. Action

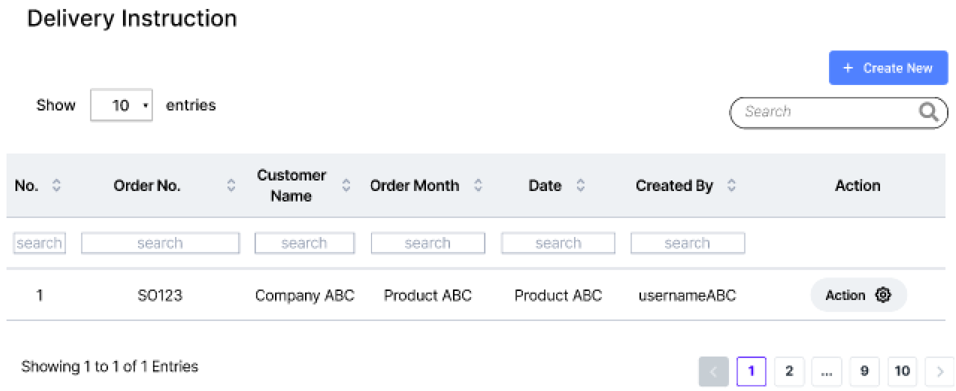


Figure 131: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill in the create form:

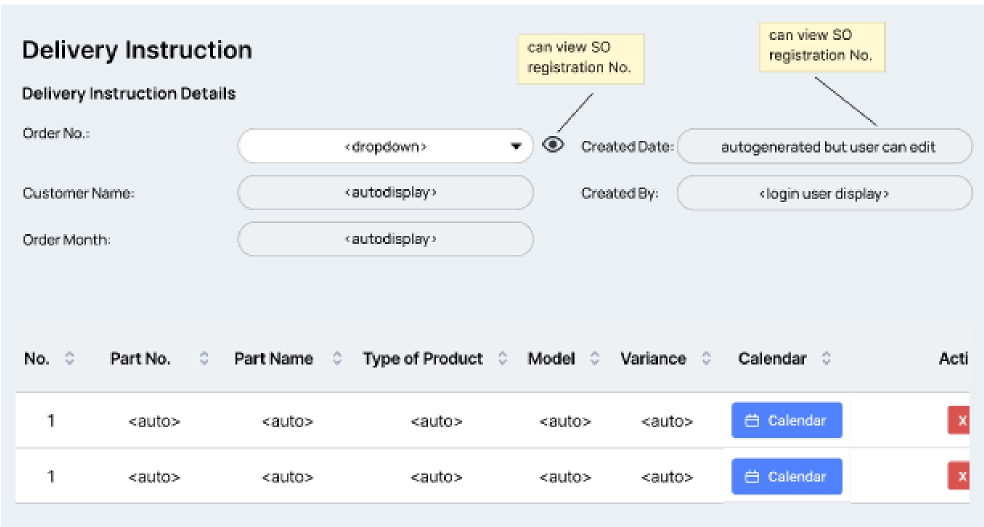


Figure 132: Information key-in

i. Delivery Instruction Details section consist of:
   - **Order No.:** dropdown based on registered Order No.
   - **Customer Name**: auto display based on selected Order No.
   - **Order Month**: auto display based on selected Order No.
   - **Created Date.:** auto current date but editable
   - **Created By.:** auto current logged in user

ii. DI table based on selected Order No. consist of:
   - No.
   - Part No.
   - Part Name

- Type of Product
- Model
- Variance
- Calendar: action to add DI quantity

8. If "Calendar" button is clicked, a modal will be popup as shown:

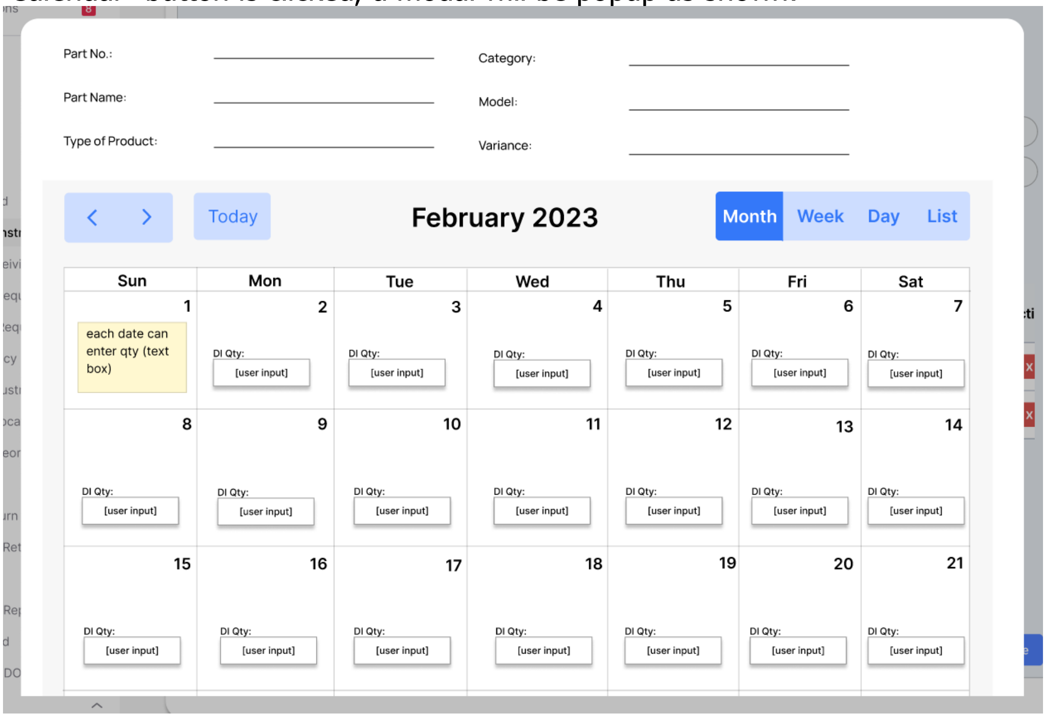


Figure 133: After click Calendar button

i. User can assign the DI qty for specific date on the given calendar.

9. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for sales order form will be differ based on the action and user can click action based on permission right.

<u>Action: View</u>

1. Display all information in Read-only mode.

<u>Action: Edit</u>

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

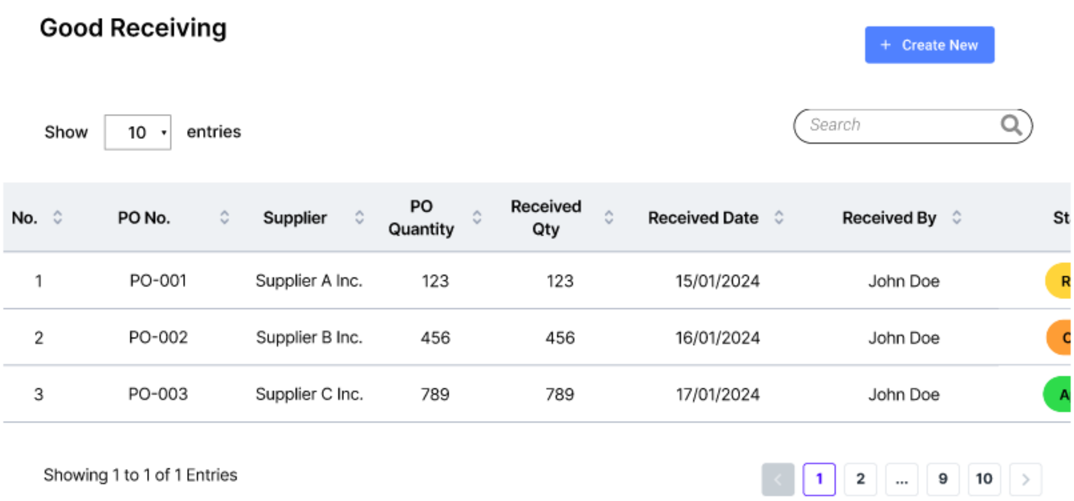
<u>Action: Delete</u>

1. User can delete a record.

4.2.2 Good Receiving

A. List

1. It shows list of good receiving records.
2. The list will show following columns:
   i. Sr#
   ii. PO No.
   iii. Supplier
   iv. PO Qty
   v. Received Qty
   vi. Received Date
   vii. Received By
   viii. Status
   ix. Action



No.	PO No.	Supplier	PO Quantity	Received Qty	Received Date	Received By	St
1	PO-001	Supplier A Inc.	123	123	15/01/2024	John Doe	R
2	PO-002	Supplier B Inc.	456	456	16/01/2024	John Doe	C
3	PO-003	Supplier C Inc.	789	789	17/01/2024	John Doe	A

Figure 134: List

3. In Action column, user will have option dropdown to:
   i. View
   ii. Edit
   iii. QC
   iv. Allocation
   v. Delete
4. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
5. User can search based on each column or at main search field at the top.
6. User can sort column in increasing or decreasing order.
7. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill in the create form:

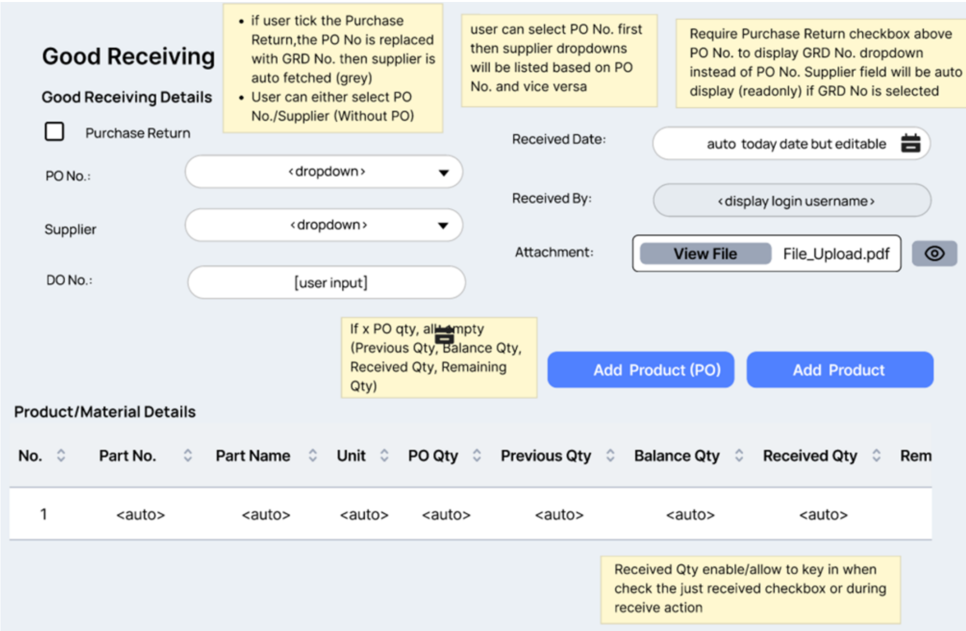


Figure 135: Information key-in

i. Good Receiving Details section consist of:
   - **Purchase Return**: checkbox (if ticked, the PO No. will be replaced with GRD No. dropdown
   - **PO No.:** dropdown based on approved Purchase Order
   - **Supplier**: dropdown based on supplier database (can be selected without PO). If Purchase Return, auto fetched supplier (read – only)
   - **DO No.**: text input (from supplier)
   - **Received Date.:** auto current date but editable
   - **Received By.:** auto current logged in user
   - **Attachment:** upload or download (image or file) with view action

ii. Product table consist of:
   - Add Product (PO): button to add product based on PO No.
   - Add Product: button to add product
   - No.
   - Required Date**:** auto from selected PO (will be empty if not based on PO No.)
   - Part No.: auto from added product
   - Part Name: auto from added product
   - Unit: auto from added product
   - PO Qty: auto from added product
   - Previous Qty: if any (will be empty if not based on PO No.)
   - Balance Qty: PO Qty – Previous Qty (will be empty if not based on PO No.)
   - Received Qty: integer input
   - Remaining Qty: Balance – Received (will be empty if not based on PO No.)
   - Remarks: add button (Green – have remarks, Red – no remarks)
   - Action: Remove button

2. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

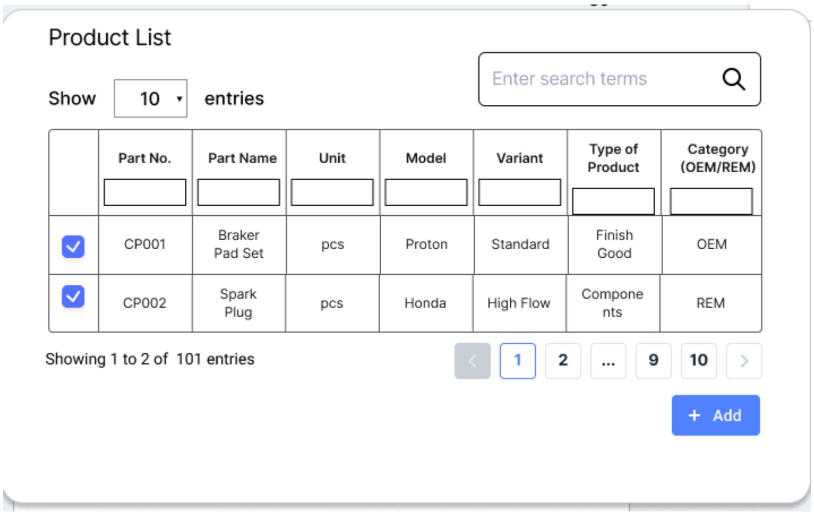


Figure 136: Search Product to Add

i. The modal consists of:
   - Entries filter
   - Search box
   - Search based on column
   - Checkbox for each product
   - Part No.: auto display from Product database
   - Part Name: auto display from Product database
   - Unit: auto display from Product database
   - Model: auto display from Product database
   - Variance: auto display from Product database
   - Type of Product: auto display from Product database
   - Category: auto display from Product database
   - Pagination
   - Add: button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table as shown below:

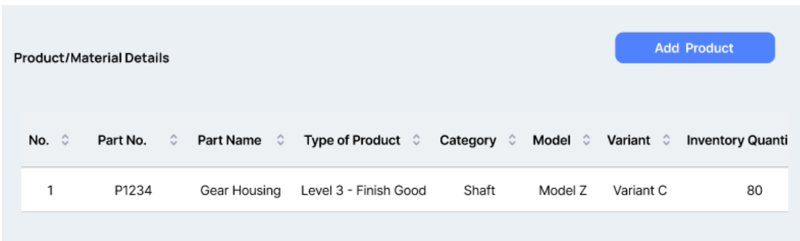


Figure 491: New product is added into the table

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

3. The status can be divided into:
   - Received (Blue) – after created
   - Checked (Yellow) – after submit QC
   - Completed (Green) – after user do allocation action

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights.

Action: View

1. Same as 4.2.1.B view action

Action: Edit

1. Same as 4.2.1.B edit action

Action: QC

1. Display all extracted information from last saved state as Read-only mode.

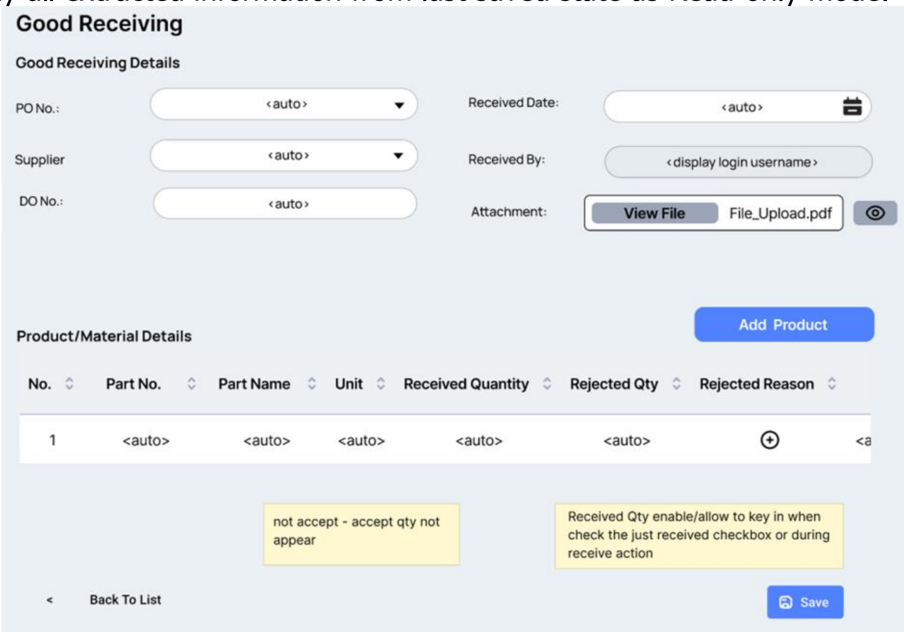


Figure 137: Receive form

2. Authorized user can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.
4. The product table have additional column which are:
   i. **Rejected Qty:** auto based on the total rejected quantity keyed in at the Rejection Reason
   ii. **Rejection Reason:** "+" button to on hold or add rejected type, quantity and comment.
   iii. **Status:** On - Hold or Accept
   iv. **Accepted Qty:** auto calculate (Received Qty – Rejected Qty)

5. If user click on the "+" button, it will pop up a modal following:

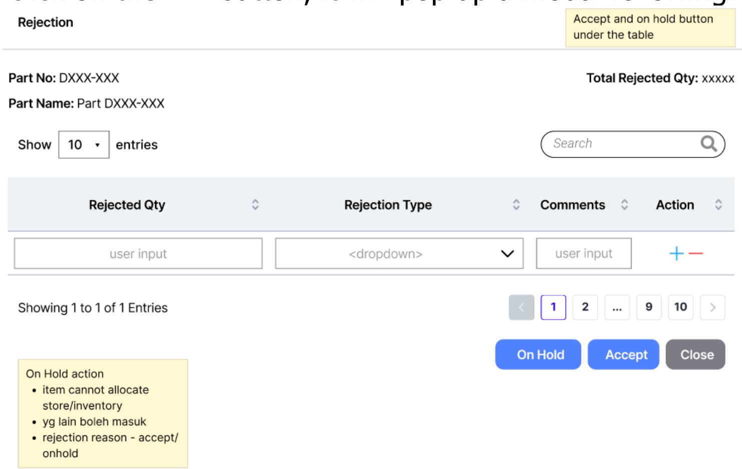


Figure 138: After user click + button at Rejection Reason

i. Rejected Qty**:** auto based on the total rejected quantity keyed in at the Rejection Reason
ii. Rejection Type**:** dropdown based on Type of Rejection database
iii. Comments
iv. Action: add or remove row
v. On Hold: button to hold the whole received quantity (cannot proceed for allocation). The table and Accept button will be disabled until release from On Hold status.
vi. Accept: button to accept the rejected qty and auto calculate the accepted qty

<u>Action: Allocation</u>

1. Display all extracted information from last saved state as Read-only mode.

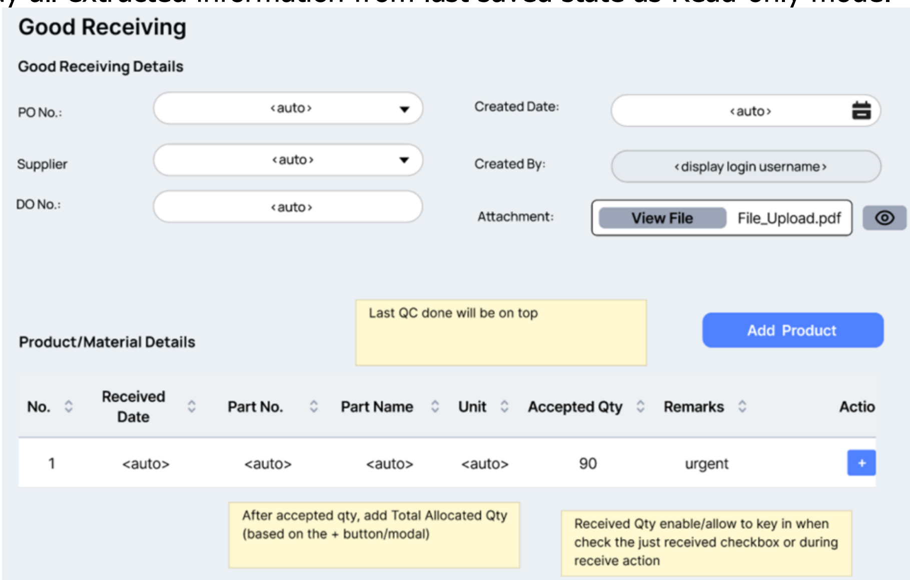


Figure 139: Receive form

2. Authorized user can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.
4. The product table have additional column which are:
   i. **Action:** "+" button to assign location

5. If user click "+" button, a modal will pop up as following for user to key in:

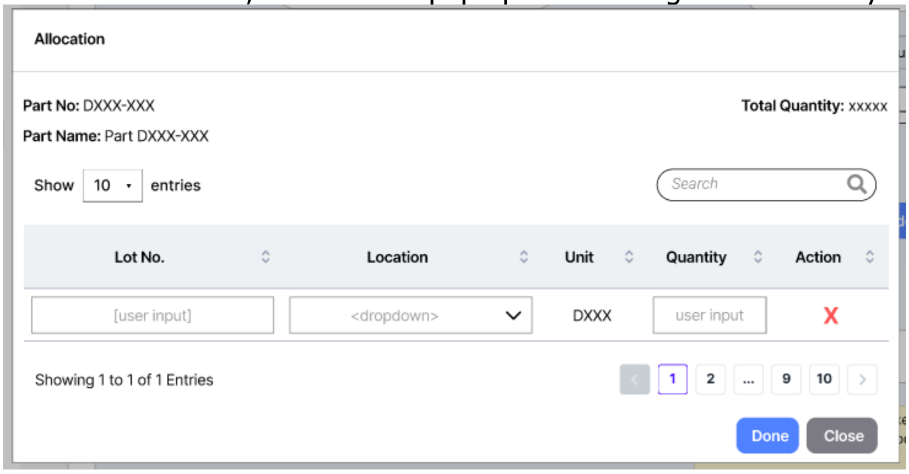
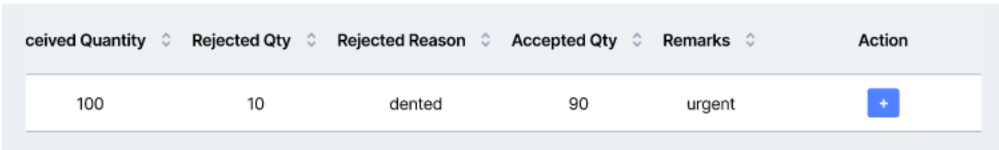


Figure 140: Assign location for the received quantity

i. The modal consists of:
   - Title
   - Part No.: auto based on selected product
   - Part Name: auto based on selected product
   - Accepted Qty: auto based on the main table
   - Total Allocated Qty: auto sum based on keyed in Quantity
   - Entries filter
   - Search box
   - Lot No.: text input
   - Location: dropdown based on area database
   - Unit: auto based on selected product
   - Allocated Qty: integer input
   - Action: Add and remove row
   - Pagination
   - Done button
   - Close button

ii. Once the product is searched and selected, user has to click <Done> button to add it to the main table as shown below:



ceived Quantity	Rejected Qty	Rejected Reason	Accepted Qty	Remarks	Action
100	10	dented	90	urgent	+

Figure 141: New product is added into the table

<u>Action: Delete</u>

1. Same as 4.2.1.B delete action.

4.2.3 Material Requisition

A. List

1. It shows list of material request records.
2. Any material planning done will be auto created to this page.
3. User can also create new request with or without material planning.
4. Create button is available above the main search box.
5. Saved form will be listed in this list screen.
6. The list will show several columns below:
   i. Sr#
   ii. MRF No.
   iii. Planning Ref No.
   iv. Request From (Dept)
   v. Request To (Dept)
   vi. Requested Date
   vii. Planned Date
   viii. Machine
   ix. Shift
   x. Status
   xi. Action

Figure 142: List

7. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Issue
   iv. Receive
   v. Delete
8. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
9. User can search based on each column or at main search field at the top.
10. User can sort column in increasing or decreasing order.
11. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill in the create form:

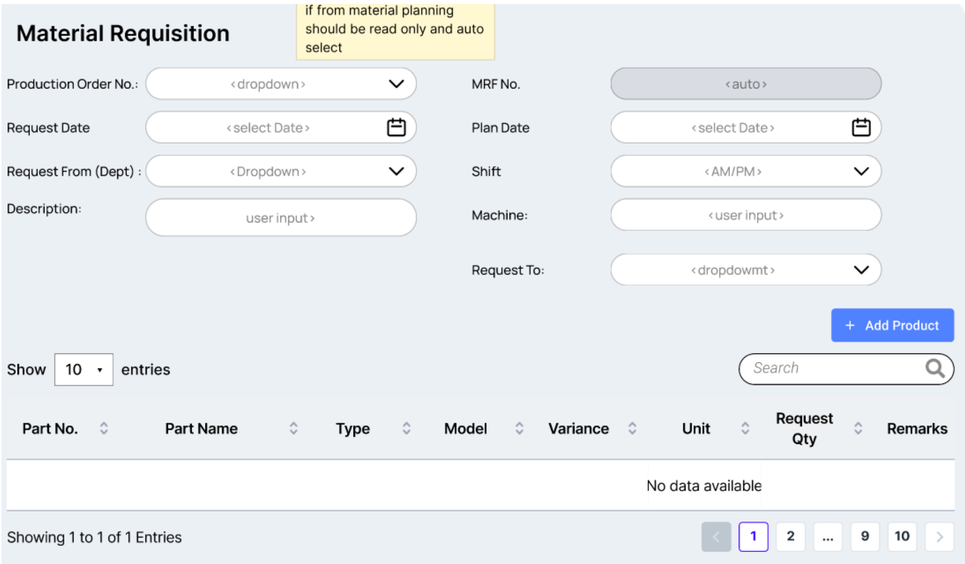


Figure 143: Information key-in

i. Production Order No.: dropdown based on created Production Order No.
ii. Requested Date: auto current date but editable
iii. Request From (Dept): dropdown based on department database
iv. Request To (Dept): dropdown based on department database
v. Description: textarea
vi. MRF No.: auto running no. [Format: MRF/running no./yyyy]
vii. Planned Date: datepicker
viii. Shift: static dropdown (Day/Night)
ix. Product table

2. Product table consist of:
   i. Add Product button
   ii. No.
   iii. Part No: auto based on added product
   iv. Part Name: auto based on added product
   v. Type of Product: auto based on added product
   vi. Model: auto based on added product
   vii. Variance: auto based on added product
   viii. Category: auto based on added product
   ix. Unit: auto based on added product
   x. Request Qty: integer input
   xi. Remarks: add button (Green – have remarks, Red – no remarks)
   xii. Action: remove button

3. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

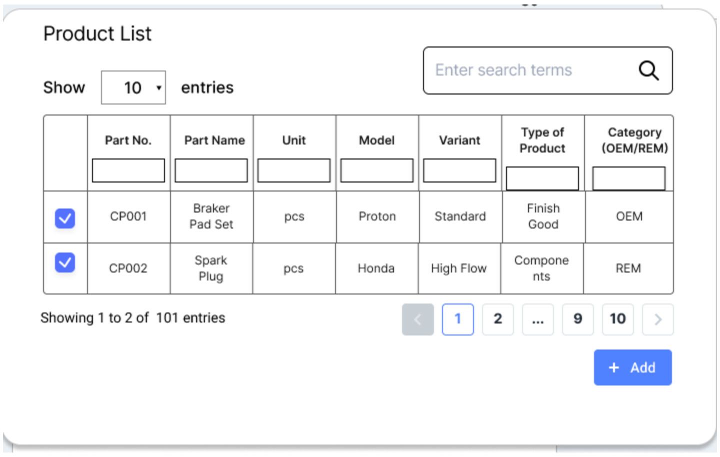


Figure 144: Search Product to Add

i. The modal consists of:
   - Title
   - Entries filter
   - Search box
   - Search based on column
   - Checkbox for each product
   - Part No.: auto display from Product database
   - Part Name: auto display from Product database
   - Unit: auto display from Product database
   - Model: auto display from Product database
   - Variance: auto display from Product database
   - Type of Product: auto display from Product database
   - Category: auto display from Product database
   - Pagination
   - Add button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table to key in the Quantity value as shown below:

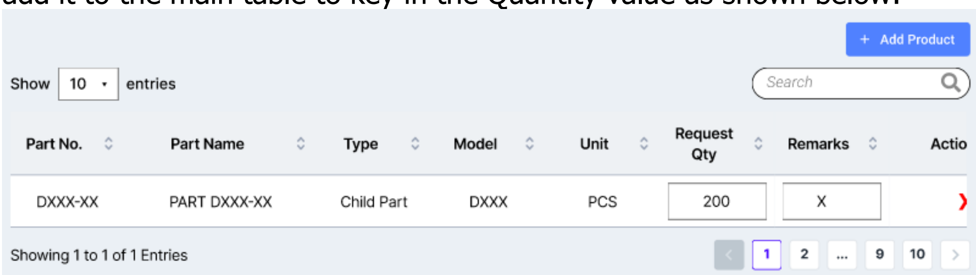


Figure 145: New product is added into the table

4. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

2. The status can be divided into:
   - Requested (Grey) – after created
   - Issued (Orange) – after issued form is submitted
   - Received (Blue) – after received form is submitted

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights.

Action: View

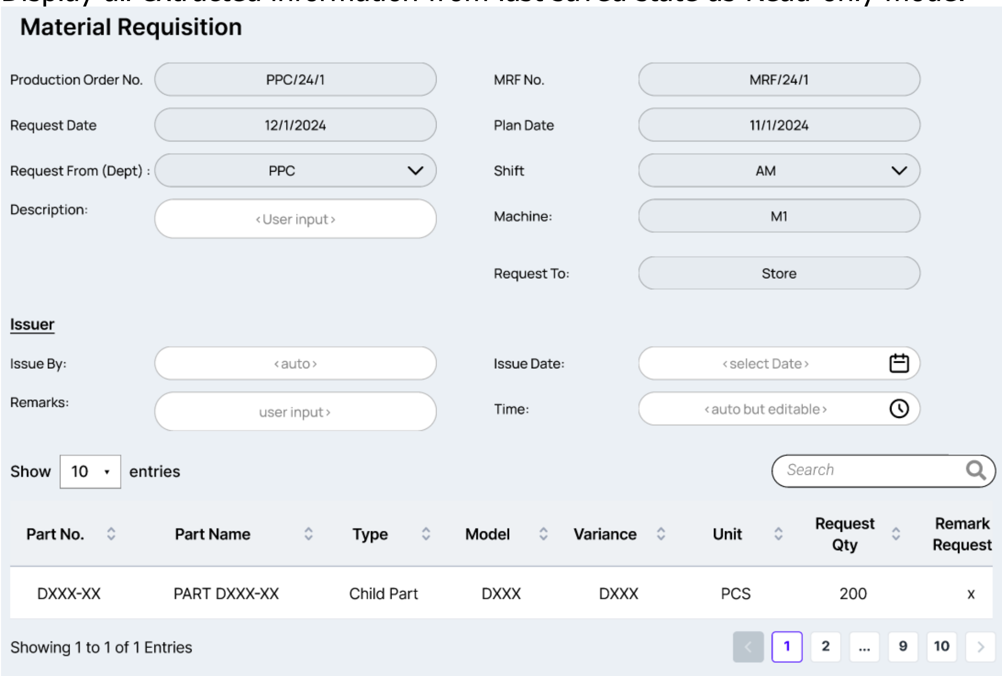
1. Same as 4.2.1.B view action

Action: Edit

1. Same as 4.2.1.B edit action

Action: Issue

1. Display all extracted information from last saved state as Read-only mode.


Material Requisition

Production Order No. PPC/24/1
MRF No. MRF/24/1
Request Date 12/1/2024
Plan Date 11/1/2024
Request From (Dept) : PPC
Shift AM
Description: ‹User input›
Machine: M1
Request To: Store

Issuer

Issue By: ‹auto›
Issue Date: ‹select Date›
Remarks: user input›
Time: ‹auto but editable›

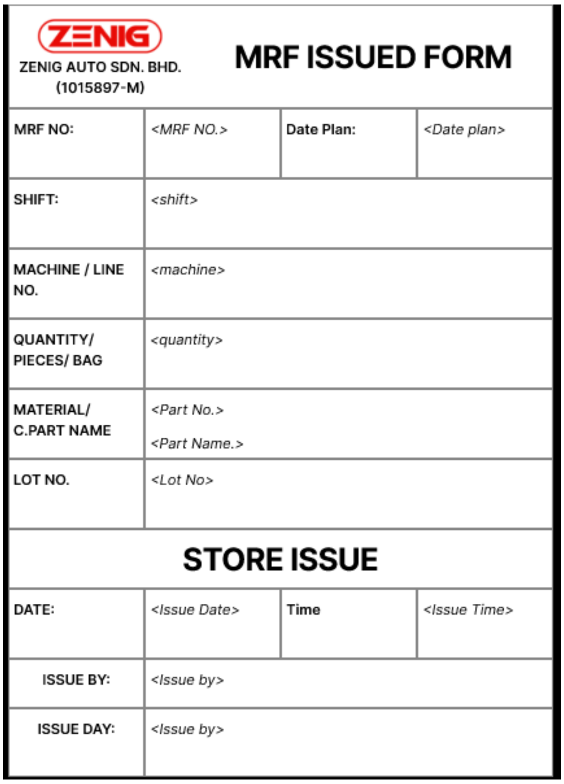
Show 10 entries
Search

Part No.	Part Name	Type	Model	Variance	Unit	Request Qty	Remark Request
DXXX-XX	PART DXXX-XX	Child Part	DXXX	DXXX	PCS	200	x

Showing 1 to 1 of 1 Entries
1 2 ... 9 10

Figure 146: Receive form

2. Authorized user can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.
4. Issue section as following:
   - **Issue By:** auto based on current user
   - **Issue Date:** datepicker
   - **Issue Time:** timepicker
   - **Remarks:** textarea
5. The product table have additional column which are:
   i. **Issue Qty:** auto based on the picking location quantity
   ii. **Remarks:** add button (Green – have remarks, Red – no remarks)
   iii. **Action:** "+" button to assign picking location
   iv. **Label:** print MRF label



ZENIG AUTO SDN. BHD. (1015897-M)	MRF ISSUED FORM		
MRF NO:	<MRF NO.>	Date Plan:	<Date plan>
SHIFT:	<shift>		
MACHINE / LINE NO.	<machine>		
QUANTITY/ PIECES/ BAG	<quantity>		
MATERIAL/ C.PART NAME	<Part No.> <Part Name.>		
LOT NO.	<Lot No>		
STORE ISSUE			
DATE:	<Issue Date>	Time	<Issue Time>
ISSUE BY:	<Issue by>		
ISSUE DAY:	<Issue by>		

Figure 147: Label

6. If user click the "+" button at Action column, it will pop up the following modal:

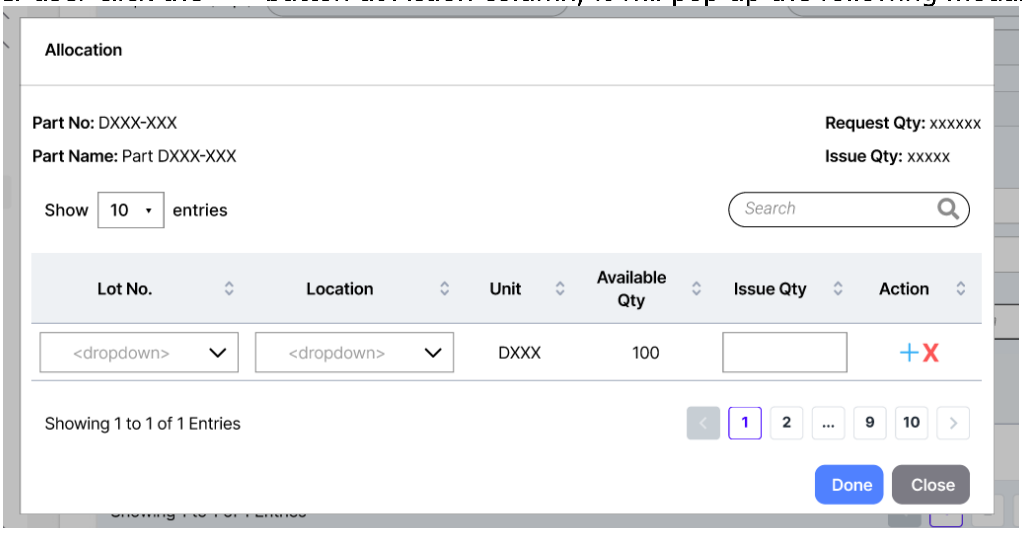


Figure 148: Receive Quantity modal

i. Part No.: auto display based on selected Part No.
ii. Part Name: auto display based on selected Part No.
iii. Request Quantity: auto display based on selected Part No.
iv. Issue Quantity: auto based on keyed in integer input
v. Entries filter, Search box and Pagination
vi. Table of:
   - Lot No.: dropdown based on registered Lot No. during incoming
   - Location: dropdown based on area database
   - Unit: auto display based on selected Part No.
   - Issue Quantity: Input integer

- Available Quantity: auto based on selected Lot No. and Location
- Action: Add or Remove row

vii. Close button

viii. Done button (Click this button to assign the Issue Quantity at the assigned location)

7. Back button is available in the bottom-left of the page.

Action: Receive

1. Once issued, receiver has to receive within 1 hour.
2. Display all extracted information from last saved state as Read-only mode.

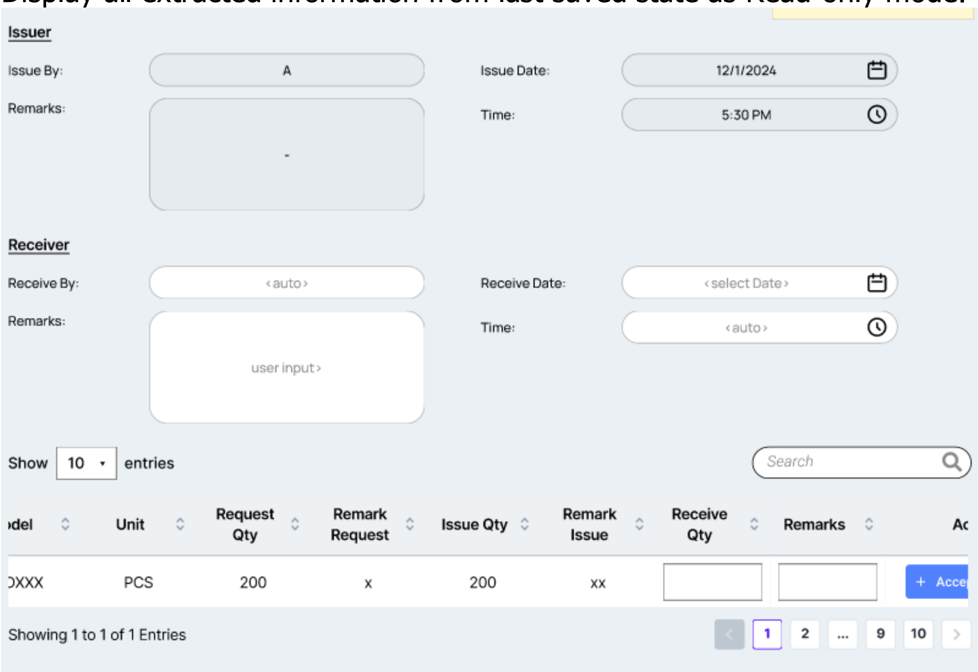


Figure 149: Receive form

3. Authorized user can edit the details that is not in read-only mode.
4. Save and Back button is available in the bottom-right of the page.
5. Receiver section as following:
   - **Receive By:** auto based on current user
   - **Receive Date:** datepicker
   - **Receive Time:** timepicker
   - **Remarks:** textarea
6. The product table have additional column which are:

i. **Receive Qty:** integer input

ii. **Remarks:** add button (Green – have remarks, Red – no remarks)

iii. **Action:** Accept button and Return button

Action: Delete

1. Same as 4.2.1.B delete action.

4.2.4 Transfer Request

A. List

1. It shows list of transfer request records.
2. User can create new request.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Ref No.
   iii. MRF No.
   iv. Machine
   v. Shift
   vi. Request Date
   vii. Request From
   viii. Request To
   ix. Receive By
   x. Receive Date
   xi. Receive Date
   xii. Time
   xiii. Status
   xiv. Action

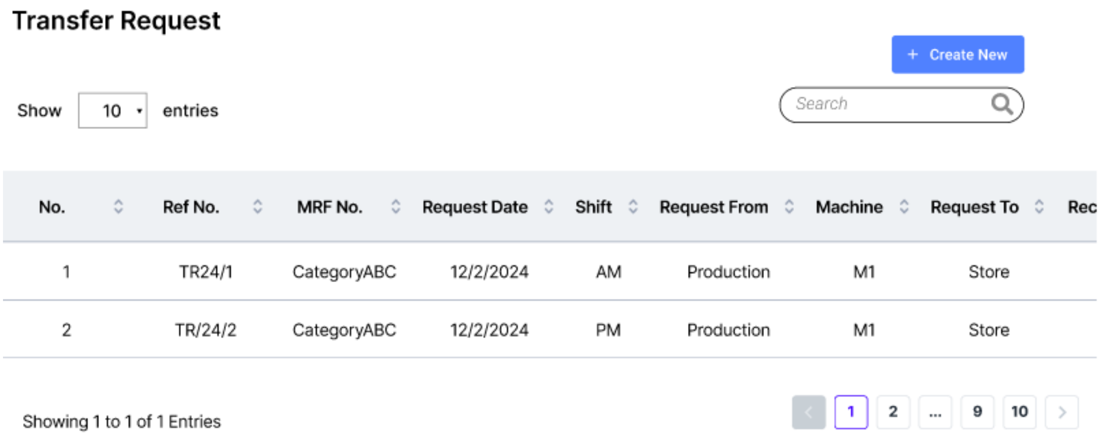


Figure 150: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Receive
   iv. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill in the create form:

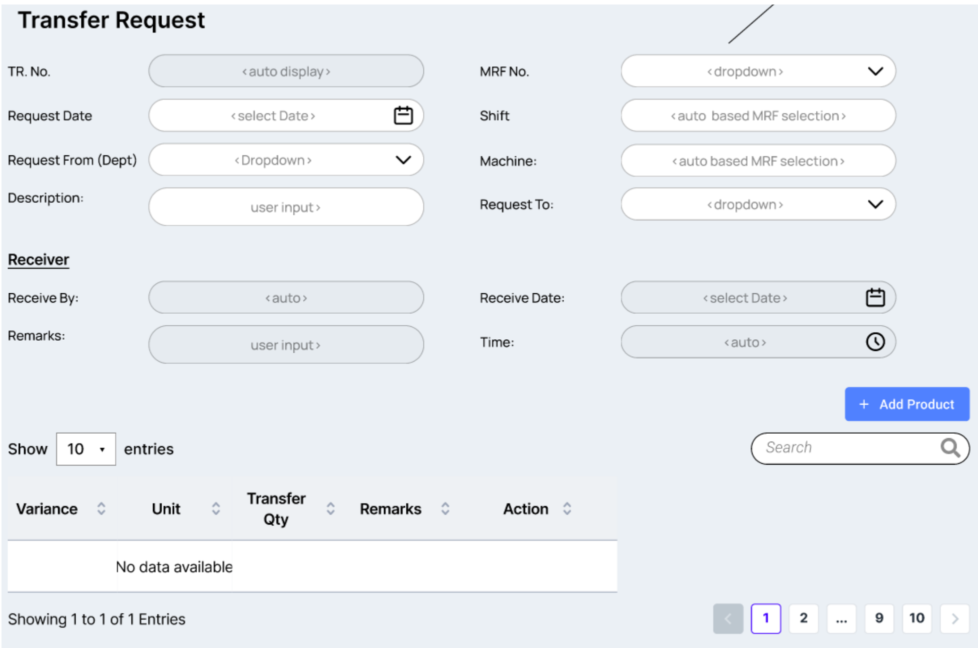


Figure 151: Information key-in

i. TR No.: auto running No. [Format: TR/running no./yyyy]
ii. Request Date: auto current date but editable
iii. Request From (Dept): dropdown based on department database
iv. Request To (Dept): dropdown based on department database
v. MRF No. (optional): dropdown based on created MRF No.
vi. Shift: auto based on selected MRF No.
vii. Machine: auto based on selected MRF No.
viii. Description: textarea
ix. Product table

2. Receiver section is disabled (will only be enabled during Receive action).

3. Product table consist of:
   i. Add Product: button to add product
   ii. Part No: auto based on added product
   iii. Part Name: auto based on added product
   iv. Type: auto based on added product
   v. Model: auto based on added product
   vi. Variance: auto based on added product
   vii. Unit: auto based on added product
   viii. Transfer Qty: integer input
   ix. Remarks: add button (Green – have remarks, Red – no remarks)
   x. Action: remove button

4. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

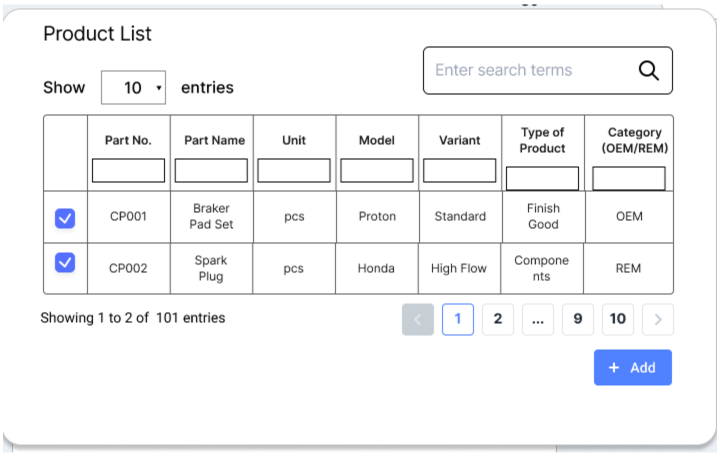


Figure 152: Search Product to Add

i. The modal consists of:
- Title
- Entries filter
- Search box
- Search based on column
- Checkbox for each product
- Part No.: auto display from Product database
- Part Name: auto display from Product database
- Unit: auto display from Product database
- Model: auto display from Product database
- Variance: auto display from Product database
- Type of Product: auto display from Product database
- Pagination
- Add button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table to key in the Quantity value as shown below:

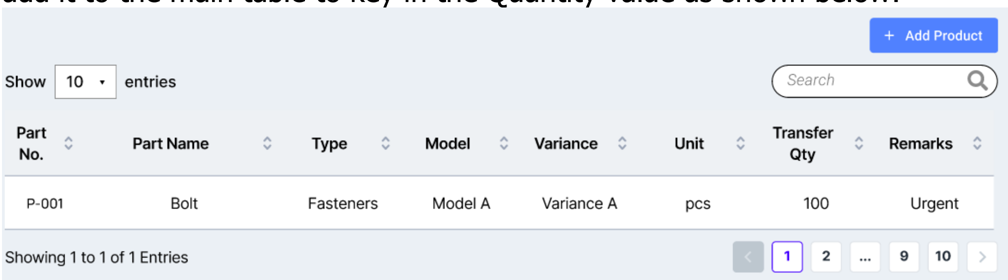


Figure 153: New product is added into the table

5. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

3. The status can be divided into:
   - Requested (Grey) – after created
   - Received (Blue) – after received form is submitted

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights.

Action: View

1. Same as 4.2.1.B view action

Action: Edit

1. Same as 4.2.1.B edit action

Action: Receive

1. Display all extracted information from last saved state as Read-only mode.

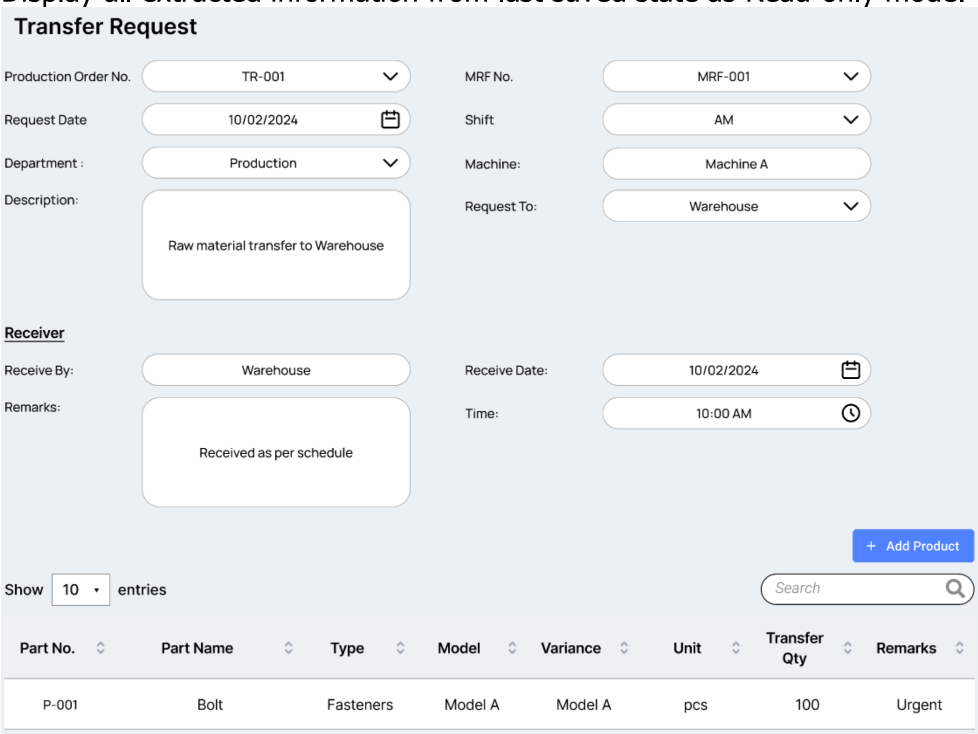


Figure 154: Receive form

2. Authorized user can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.
4. Receiver section as following:
   - **Receive By:** auto current user
   - **Receive Date:** datepicker
   - **Receive Time:** timepicker
   - **Remarks:** textarea
5. The product table have additional column which are:
   i. **Total Received Qty:** auto based on keyed in Received Qty at the "+" action
   ii. **Remarks:** add button (Green – have remarks, Red – no remarks)
   iii. **Action:** "+" button to assign location

6. If user click "+" button, a modal will pop up as following for user to key in:

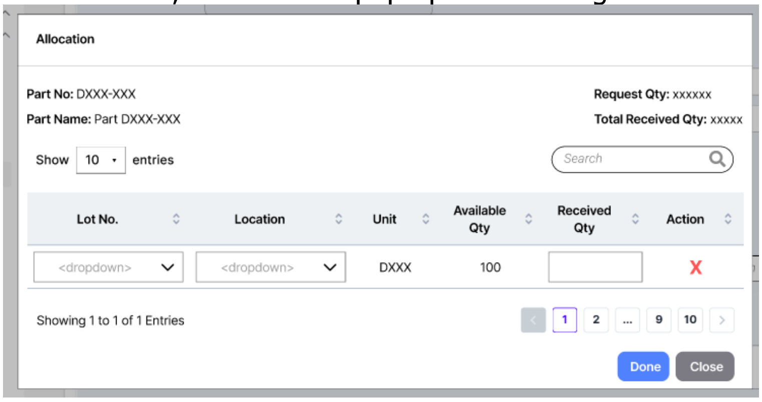


Figure 155: Assign location for the received quantity

i. The modal consists of:
   - Title
   - Part No.: auto based on selected product
   - Part Name: auto based on selected product
   - Request Qty: auto based on selected product
   - Total Received Qty: auto sum based on Received Qty
   - Entries filter
   - Search box
   - Lot No.: dropdown based on registered Lot No. during incoming. Not applicable to FG and material from production (crushing)
   - Location: dropdown based on area database
   - Unit: auto based on selected product
   - Available Qty: auto based on current inventory at the selected location
   - Received Qty: integer input
   - Action: Add and remove row
   - Pagination
   - Done button
   - Close button

ii. Once the product is searched and selected, user has to click <Done> button to add it to the main table to key in the Quantity value as shown below:

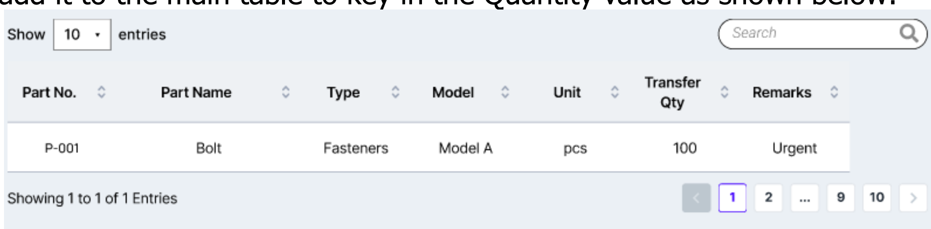


Figure 156: New product is added into the table

<u>Action: Delete</u>

1. Same as 4.2.1.B delete action.

4.2.5 Discrepancy

A. List

1. It shows a list of discrepancy records.
2. Auto created when there is a discrepancy at MRF issue and receive quantity.
3. Export button is available at the top right of the list.
4. The list will show following columns:
   i. Sr#
   ii. Created Date
   iii. Discrepancy Ref No.
   iv. MRF No.
   v. Order No.
   vi. Part No.
   vii. Part Name
   viii. Issued
   ix. Received Quantity
   x. Status
   xi. Action

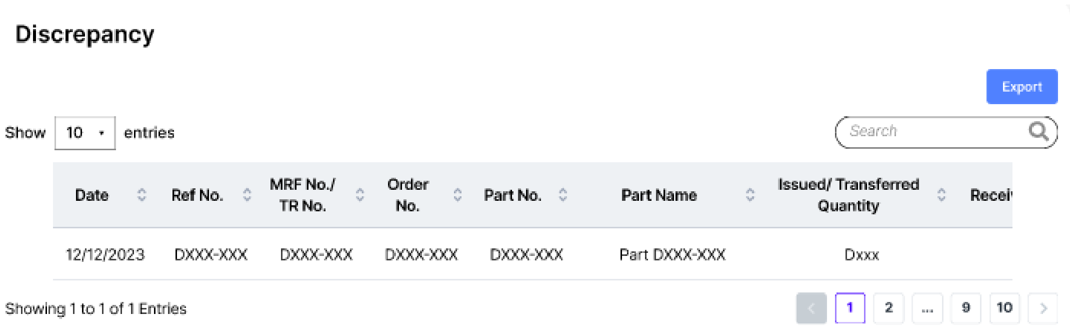


Figure 157: List

5. In Action column, user will have option dropdown to:
   i. View
   ii. Edit
6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on each column or at main search field at the top.
8. User can sort column in increasing or decreasing order.
9. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in form.

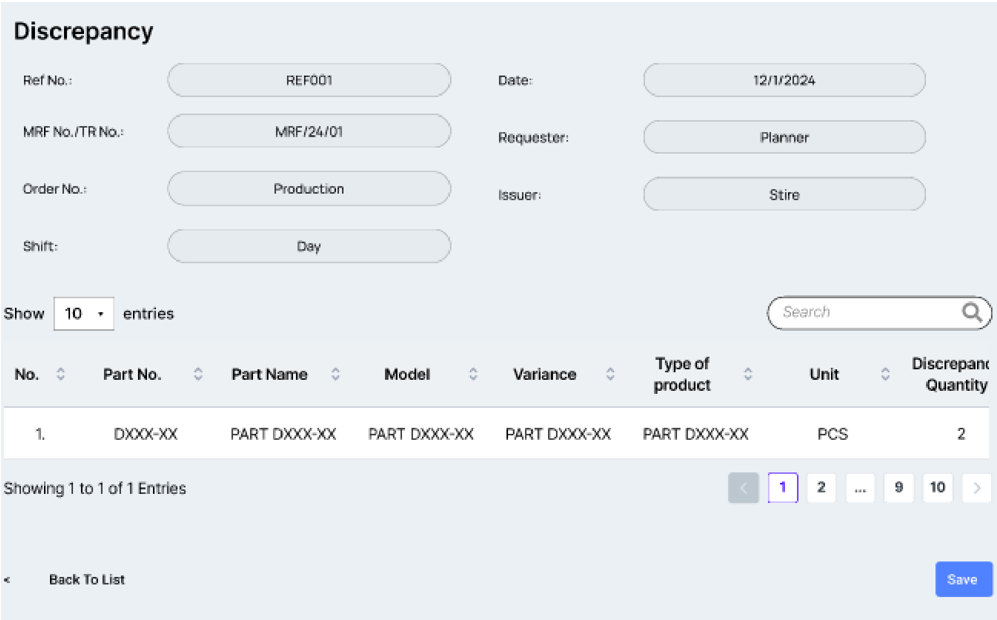


Figure 158: Information key-in create form

i. **Discrepancy Ref No.**: auto running number [Format: DCR/running no./yyyy]
ii. **Date**: auto display based on today date
iii. **MRF No.:** auto and have eye icon to view the form
iv. **Department:** auto
v. **Shift:** auto
vi. **Requester:** auto
vii. **Issuer:** auto
viii. **Product table**

2. The product table consists of:

i. **No.**
ii. **Part No.**
iii. **Part Name**
iv. **Model**
v. **Variance**
vi. **Type of Product**
vii. **Unit**
viii. **Discrepancy Quantity**
ix. **Quantity**
x. **Action**: static dropdown
- Add to issuer
- Add to receiver

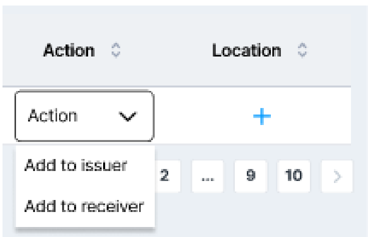


Figure 159: Search Product to Add

xi. **Location**: “+” button to assign location (only for Add to Issuer)

3. If user click “+” button, a modal will pop up as following for user to key in:

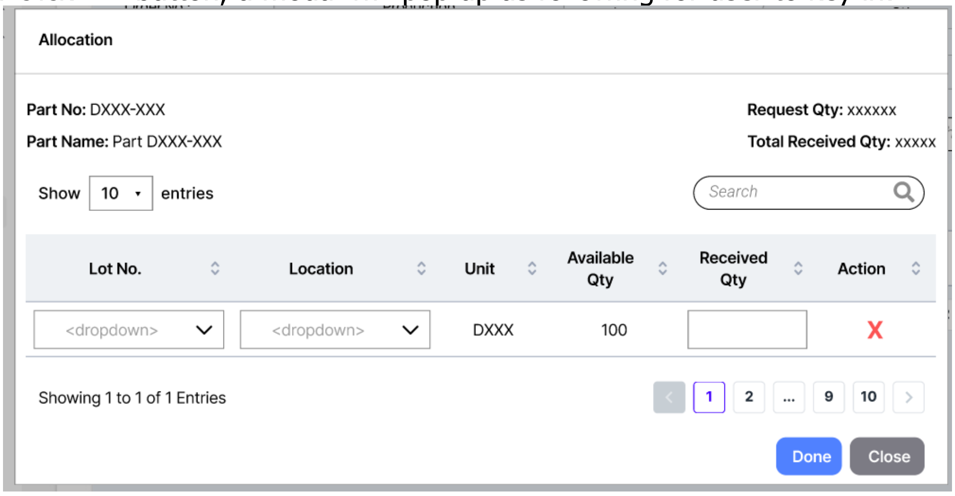


Figure 160: Assign location for add to issuer

i. The modal consists of:
- Title
- Part No.: auto based on selected product
- Part Name: auto based on selected product
- Discrepancy Qty: auto based on discrepancy qty
- Total Qty: auto sum based on keyed in Quantity
- Entries filter
- Search box
- Location: dropdown based on area database
- Unit: auto based on selected product
- Quantity: integer input
- Action: Add and remove
- Pagination
- Done button
- Close button

4. At the bottom there are several buttons:
- <Save> button to save and the record will be listed in the main list.
- <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights. Same as 4.2.1.B action.

4.2.6 Stock Adjustment

A. List

1. It shows a list of Stock Adjustment records based on current inventory.
2. The list will show following columns:
   i. Sr#
   ii. Part No.
   iii. Part Name
   iv. Available Qty

v. Status
vi. Action

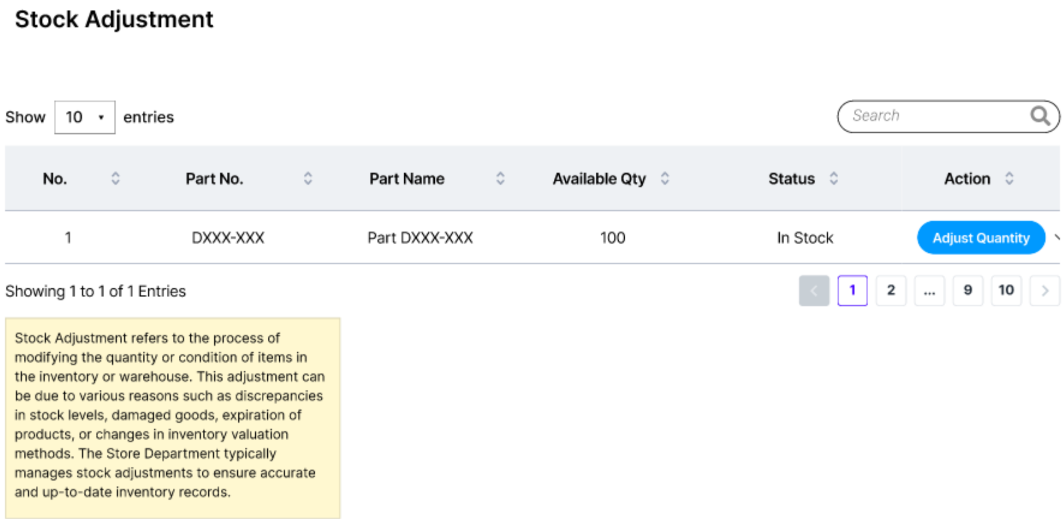


Figure 161: List

3. In Action column, a button is provided:
   i. Adjust Quantity
4. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
5. User can search based on each column or at main search field at the top.
6. User can sort column in increasing or decreasing order.

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights.

Action: Adjust Quantity

1. Authorized user can edit the details that is not in read-only mode.
2. If user click "Adjust Quantity" button, a modal will pop up as following for user to key in the quantity:

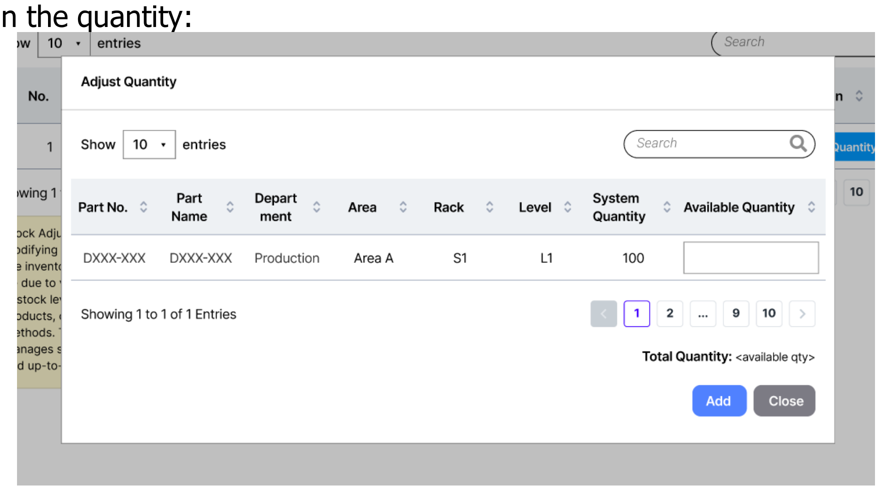


Figure 162: Search Product to Add

i. The modal consists of:
- Title
- Entries filter
- Search box
- Part No.
- Part Name
- Department (Production/ Store/ Logistic)
- Area
- Rack
- Level
- System Quantity: auto based on current available quantity
- Available Quantity: integer input
- Pagination
- Total Quantity: auto sum Available Quantity
- Add button
- Close button

ii. Once user click <Add> button, it will update the available quantity at the main table as shown below:

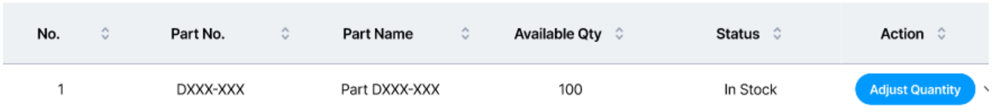


Figure 163: Available Quantity is adjusted

3. The status consists of:
   - In Stock (Green)
   - Out of Stock (Red)

4.2.7 Stock Relocation

A. List

1. It shows a list of Stock Relocation records.
2. Export and Create button is available above the main search box.
3. Saved form will be listed in this list screen.
4. The list will show following columns:
   i. Sr#
   ii. Created Date
   iii. Stock Relocation Ref No.
   iv. Description
   v. Transfer By
   vi. Action

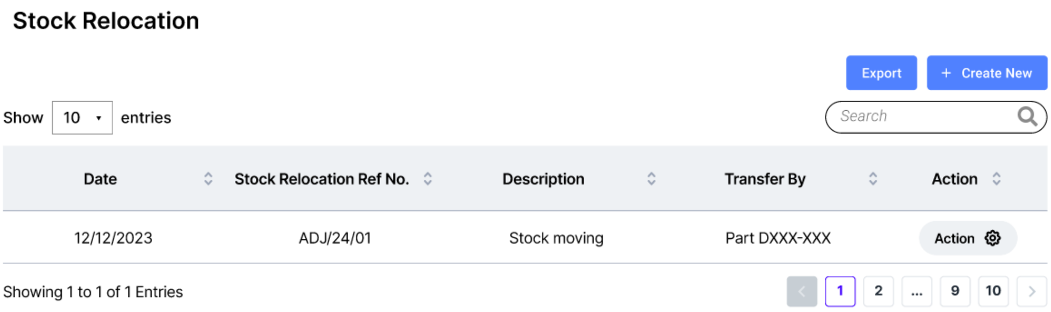


Figure 164: List

5. In Action column, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on each column or at main search field at the top.
8. User can sort column in increasing or decreasing order.
9. User can click "Create" button to create new record.

Create new

1. User fill-in details in form.

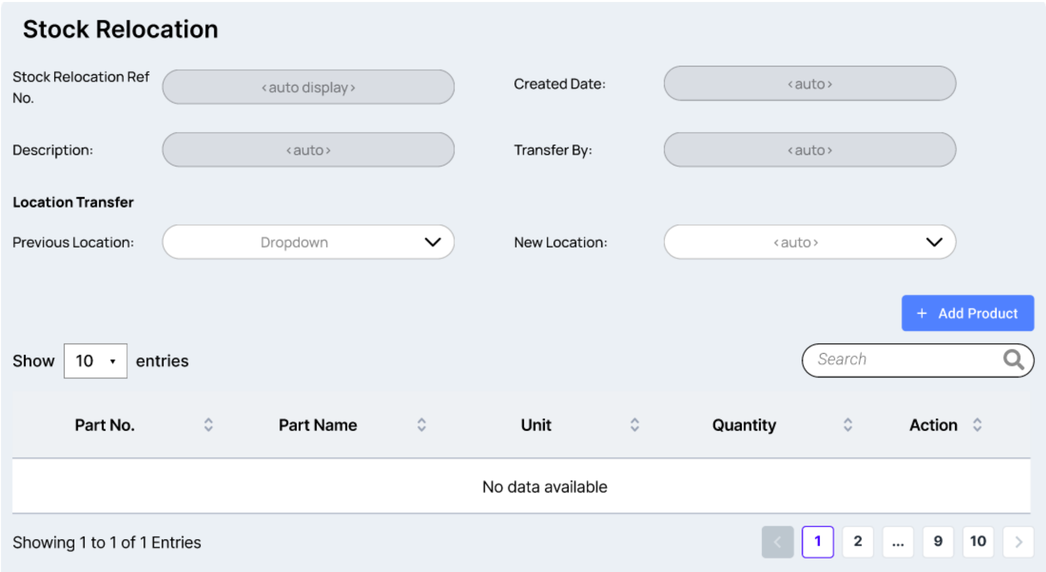


Figure 165: Information key-in create form

   i. **Stock Relocation Ref No.**: auto running number [Format: STR/running no./yyyy]
   ii. **Created Date**: auto display based on today date
   iii. **Description**: text input
   iv. **Transferred By**: auto display current logged in user
   v. **Previous Location:** dropdown, auto display based on current location of added Part No.
   vi. **New Location:** dropdown based on existing location
   vii. **Add Product**: button to add product
   viii. **Product table**

2. The product table consists of:
   i. **Part No.**
   ii. **Part Name**
   iii. **Unit**
   iv. **Quantity**
   v. **Action**: Remove button

3. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

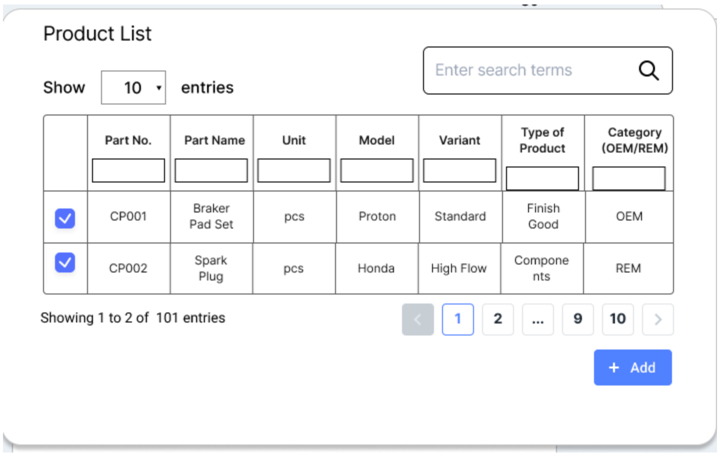


Figure 166: Search Product to Add

i. The modal consists of:
- Title
- Entries filter
- Search box
- Search based on column
- Checkbox for each product
- Part No.: auto display from Product database
- Part Name: auto display from Product database
- Unit: auto display from Product database
- Model: auto display from Product database
- Variance: auto display from Product database
- Type of Product: auto display from Product database
- Pagination
- Add button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table to key in the Quantity value as shown below:

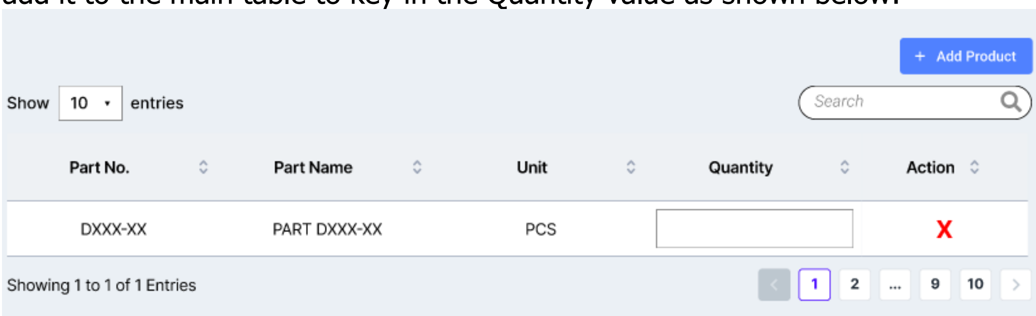


Figure 167: New product is added into the table

4. At the bottom there are several buttons:
- <Save> button to save and the record will be listed in the main list.
- <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights. Same as 4.2.1.B action.

4.2.8 Product Reordering

A. List

1. It shows a list of Product Reordering records.
2. The record is related to the Inventory Dashboard.
3. Export and Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show following columns:
   i. Sr#
   ii. Part No
   iii. Part Name
   iv. Unit
   v. Type of Product
   vi. Model
   vii. Variance
   viii. Critical Min
   ix. Minimum Qty
   x. Maximum Qty
   xi. Action

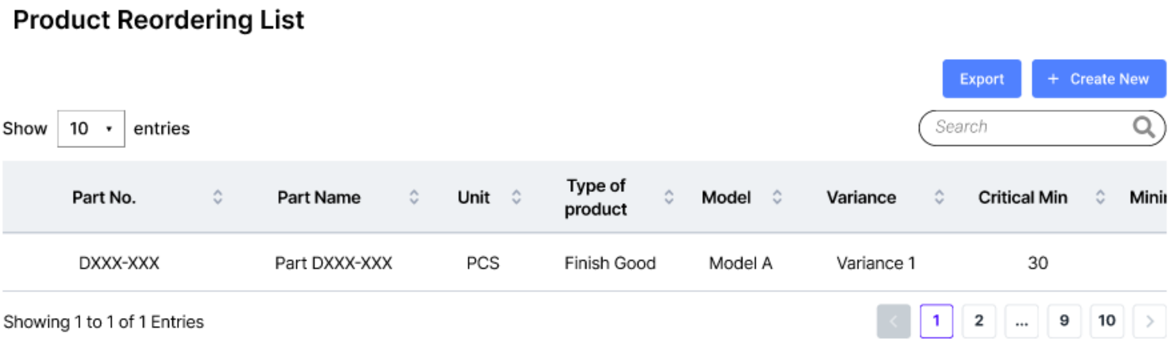


Figure 168: List

6. In Action column, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in form.

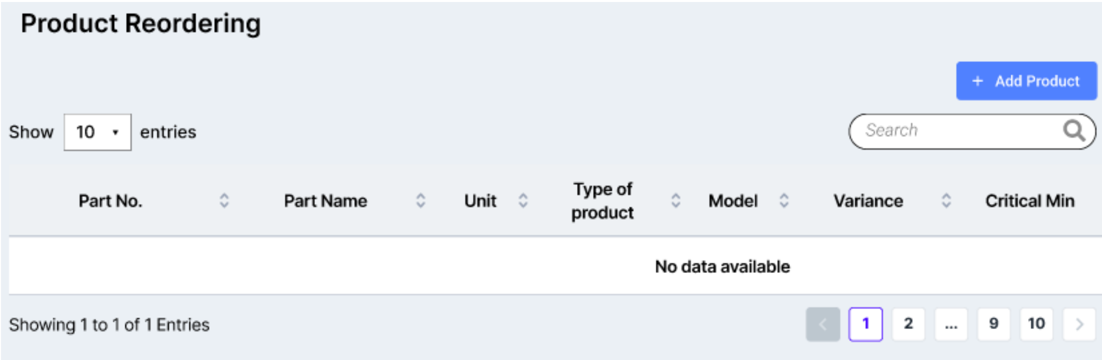


Figure 169: Information key-in create form

i. The product table consists of:
   - Add Product: button to add product
   - Part No
   - Part Name
   - Unit
   - Type of Product
   - Model
   - Variance
   - Critical Min
   - Minimum Qty
   - Maximum Qty
   - Action: Remove button

2. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

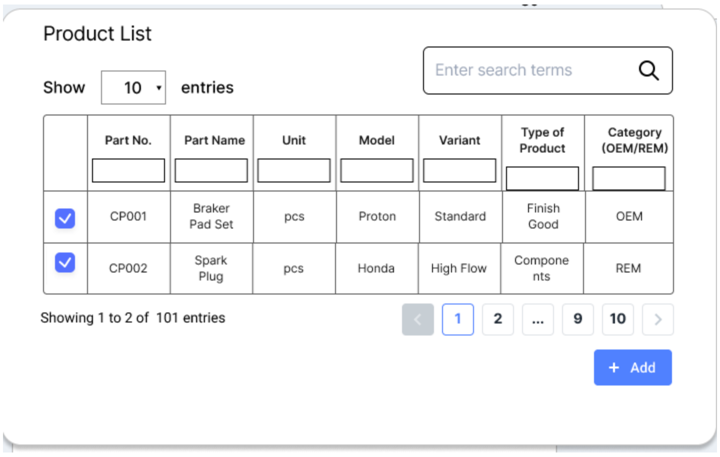


Figure 170: Search Product to Add

i. The modal consists of:
   - Title
   - Entries filter
   - Search box
   - Search based on column
   - Checkbox for each product
   - Part No.: auto display from Product database
   - Part Name: auto display from Product database

- Unit: auto display from Product database
- Model: auto display from Product database
- Variance: auto display from Product database
- Type of Product: auto display from Product database
- Pagination
- Add button

ii. Once the product is searched and selected, user has to click <Add> button to add it to the main table. User has to key in the Critical Min, Minimum Quantity and Maximum Quantity value as shown below:

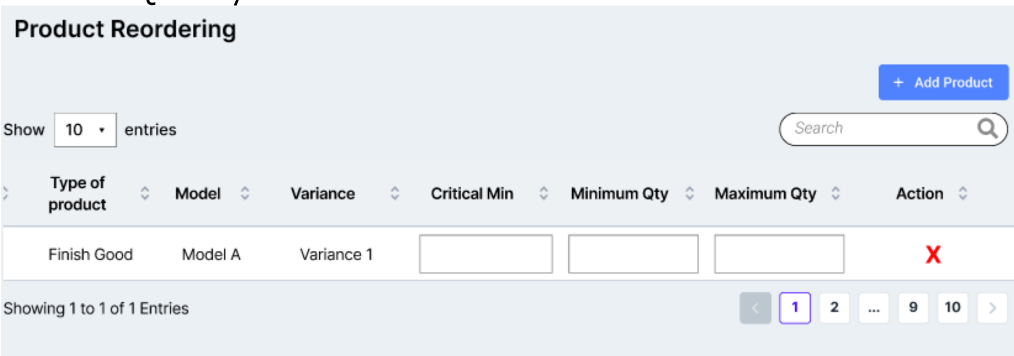


Figure 171: New product is added into the table

3. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights. Same as 4.2.1.B action.

4.2.9 Outgoing

A. List

1. It shows a list of Outgoing records.
2. Export and Create button is available above the main search box.
3. Saved form will be listed in this list screen.
4. The list will show following columns:
   i. Sr#
   ii. Date
   iii. DO No.
   iv. Ref No.
   v. Customer (if any)
   vi. Supplier (if any)
   vii. Action

Figure 172: List

5. In Action column, user will have option dropdown to:
   i. View
   ii. Preview
   iii. Edit
   iv. Delete
6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on each column or at main search field at the top.
8. User can sort column in increasing or decreasing order.
9. User can click "Create" button to create new record.

Create new

1. User has to select form category (static dropdown) first:
   - Order
   - Sales Return
   - Purchase Return

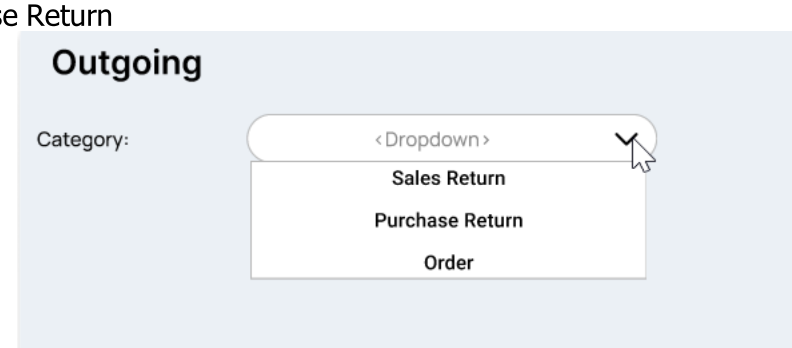


Figure 173: Outgoing form category selection

2. User fill-in details in form.

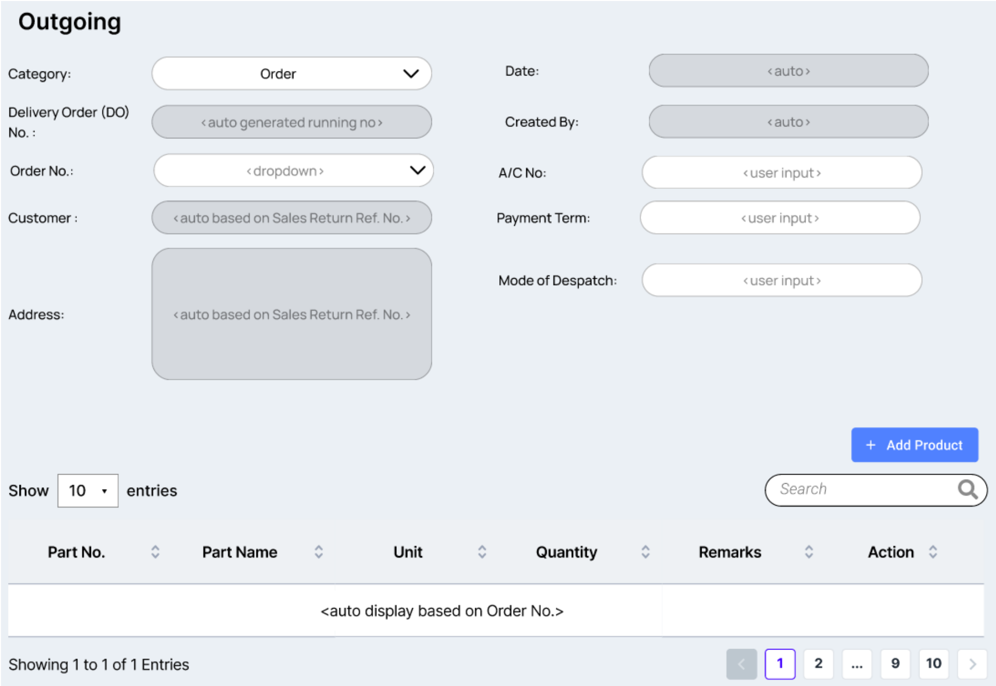


Figure 174: Information key-in create form

i. **Category**: static dropdown
ii. **DO No.:** auto running no. [Format: DO/running no./yyyy]
iii. **Ref No:** dropdown based on created Ref No. of selected category
iv. **Customer/Supplier:** dropdown based on database
v. **Address:** auto based on selected customer/supplier
vi. **Created Date:** auto display current date
vii. **Created By:** auto display current logged in user
viii. **A/C No.:** text input
ix. **Payment Term:** text input
x. **Mode of Despatch:** text input
xi. The product table (based on selected Ref No.) consists of:
   - Add Product: button to add product
   - No.
   - Part No
   - Part Name
   - Unit
   - Quantity
   - Remarks: add button (Green – have remarks, Red – no remarks)
   - Action: Remove button

3. If user click "Add Product" button, a Product List will pop up in a modal as following for user to select:

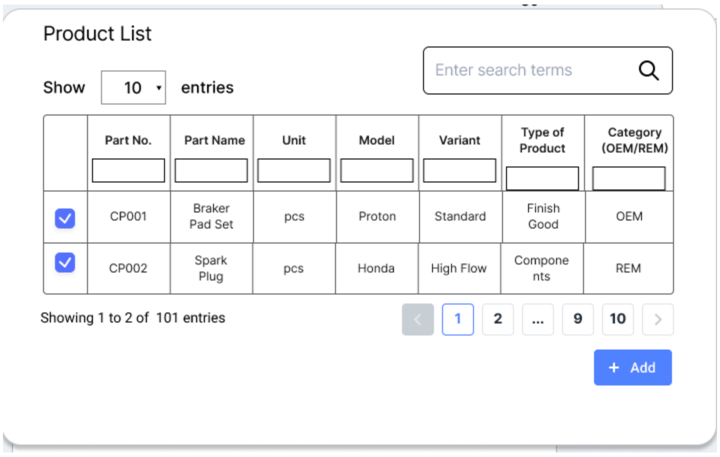


Figure 175: Search Product to Add

i. The modal consists of:
- Title
- Entries filter
- Search box
- Search based on column
- Checkbox for each product
- Part No.: auto display from Product database
- Part Name: auto display from Product database
- Unit: auto display from Product database
- Model: auto display from Product database
- Variance: auto display from Product database
- Type of Product: auto display from Product database
- Pagination
- Add button

ii. Once the product is searched and selected, user has to click <Done> button to add it to the main table to key in the Quantity value as shown below:

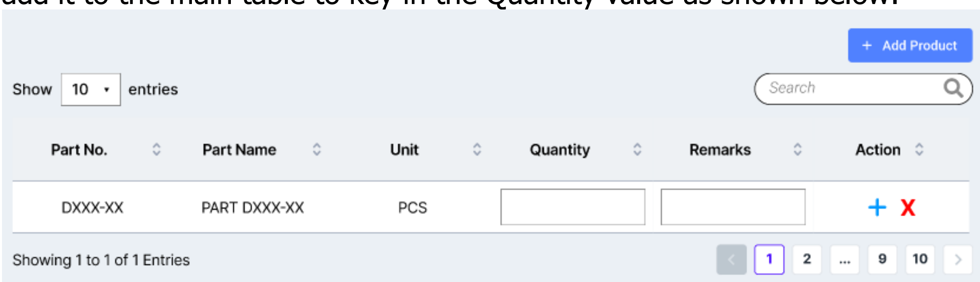


Figure 176: Selected product is added into the table

4. At the bottom there are several buttons:
   - <Generate Preview> button to print DO
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

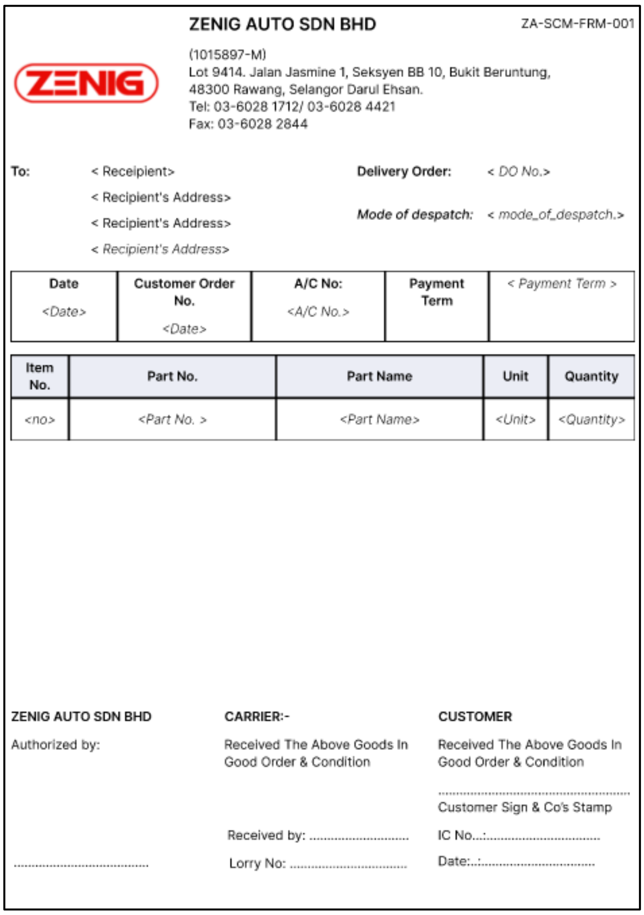
The screen layout will be differ based on the action and user can click action based on permission rights.

Action: View

1. Same as 4.2.1.B view action.
2. <Generate Preview> button is provided to generate the DO for printing.

Action: Preview

1. To view generated DO.



ZENIG AUTO SDN BHD ZA-SCM-FRM-001

(1015897-M)
Lot 9414. Jalan Jasmine 1, Seksyen BB 10, Bukit Beruntung,
48300 Rawang, Selangor Darul Ehsan.
Tel: 03-6028 1712/ 03-6028 4421
Fax: 03-6028 2844

To: < Receipient>
< Recipient's Address>
< Recipient's Address>
< Recipient's Address>

Delivery Order: < DO No.>
Mode of despatch: < mode_of_despatch.>

Date	Customer Order No.	A/C No:	Payment Term	< Payment Term >
<Date>	<Date>	<A/C No.>		

Item No.	Part No.	Part Name	Unit	Quantity
<no>	<Part No. >	<Part Name>	<Unit>	<Quantity>

ZENIG AUTO SDN BHD
Authorized by:
....

CARRIER:-
Received The Above Goods In Good Order & Condition
Received by: ....
Lorry No: ....

CUSTOMER
Received The Above Goods In Good Order & Condition
....
Customer Sign & Co's Stamp
IC No...:...................................
Date:..:.....................................

Figure 177: Generated DO

Action: Edit

1. Same as 4.2.1.B edit action.
2. <Generate Preview> button is provided to generate the DO for printing.

Action: Delete

1. Same as 4.2.1.B delete action.

4.2.10 Sales Return

A. List

1. It shows a list of Sales Return records.
2. Create button is available above the main search box.
3. Saved form will be listed in this list screen.
4. The list will show following columns:
   i. Sr#
   ii. Sales Return Ref No.
   iii. Customer Name
   iv. Returned Qty

v. Returned Date
vi. Status
vii. Action

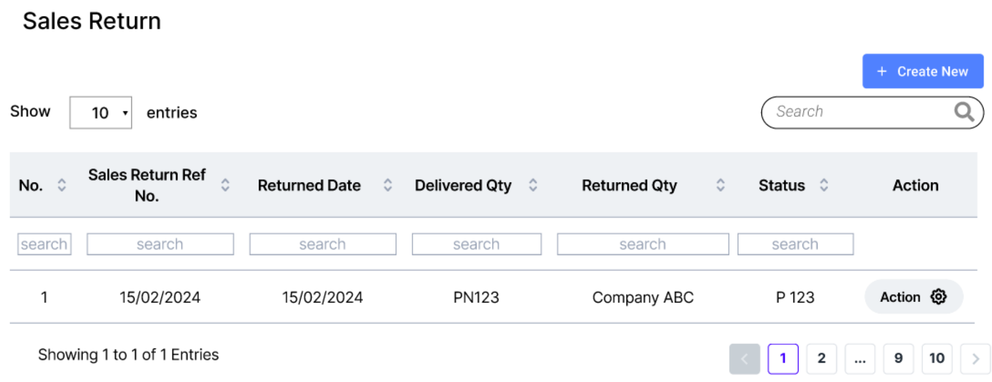


Figure 178: List

5. In Action column, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on each column or at main search field at the top.
8. User can sort column in increasing or decreasing order.
9. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in form.

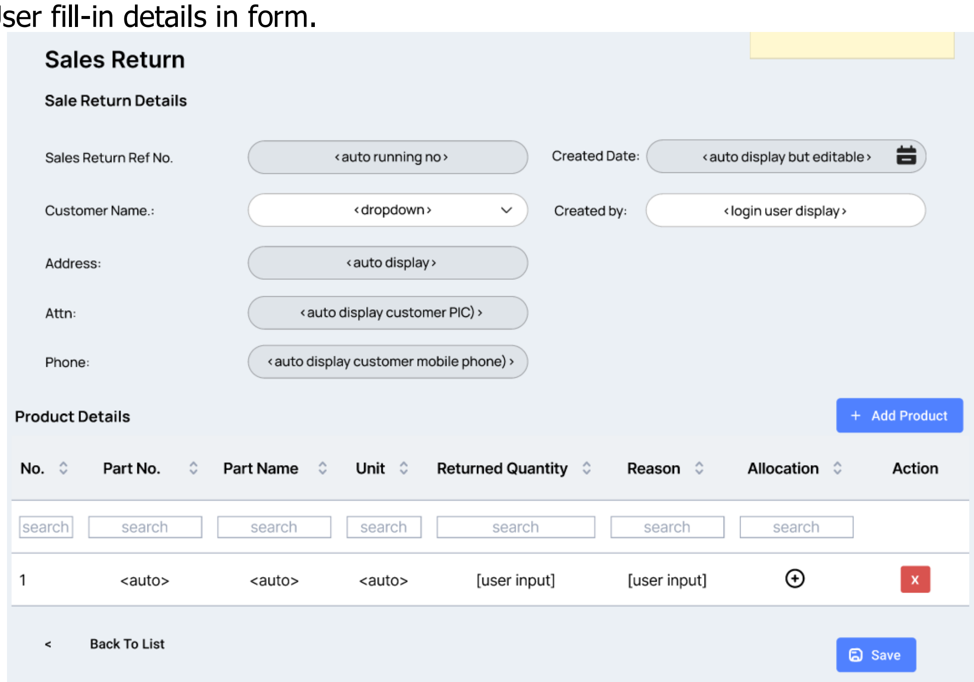


Figure 179: Information key-in create form

i. **Sales Return Ref No.:** auto running no.
ii. **Customer Name:** dropdown based on customer database
iii. **Address:** auto based on selected customer
iv. **Attn:** auto based on selected customer's PIC Name
v. **Phone:** auto based on selected customer's PIC Phone No. (Mobile/Work)
vi. **Created By:** auto current logged in user
vii. **Created/Returned Date:** auto display current date
viii. The product table (based on selected DO No.) consists of:
- Add Product: button to add product
- No.
- Part No: auto based on added product
- Part Name: auto based on added product
- Unit: auto based on added product
- Returned Quantity: integer input
- Reason: text input
- Allocation: "+" button to assign location
- Action: remove button

5. If user click "+" button, a modal will pop up as following for user to key in:

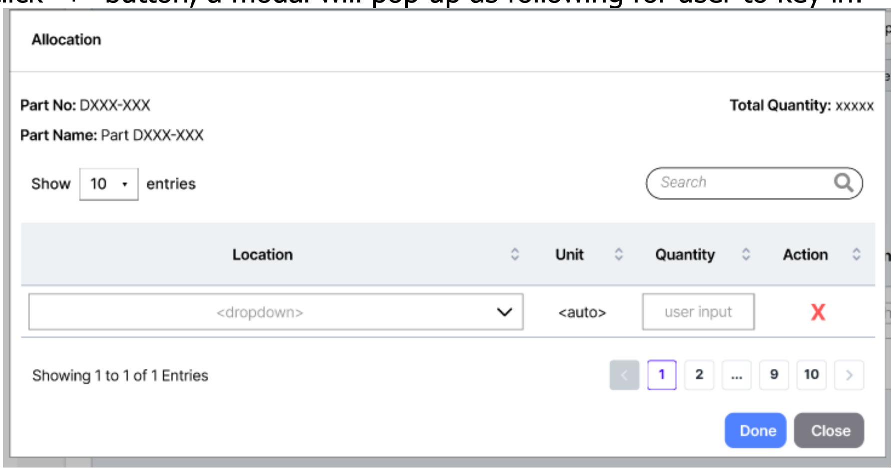


Figure 180: Assign location for the returned quantity

ii. The modal consists of:
- Title
- Part No.: auto based on selected product
- Part Name: auto based on selected product
- Total Qty: auto sum based on keyed in Quantity
- Entries filter
- Search box
- Location: dropdown based on area database
- Unit: auto based on selected product
- Quantity: integer input
- Action (Add and remove)
- Pagination
- Done button
- Close button

iii. Once the product is searched and selected, user has to click <Done> button to add it to the main table as shown below:

ceived Quantity	Rejected Qty	Rejected Reason	Accepted Qty	Remarks	Action
100	10	dented	90	urgent	+

Figure 181: New product is added into the table

6. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout will be differ based on the action and user can click action based on permission rights.

Action: View

1. Same as 4.2.1.B view action.

Action: Edit

1. Same as 4.2.1.B edit action.

Action: Delete

1. Same as 4.2.1.B delete action.

4.2.11 Purchase Return

A. List

1. It shows a list of Purchase Return records.
2. Create button is available above the main search box.
3. Saved form will be listed in this list screen.
4. The list will show following columns:
   i. Sr#
   ii. Date
   iii. GRD No.
   iv. PO No.
   v. Supplier
   vi. Quantity
   vii. Status
   viii. Action

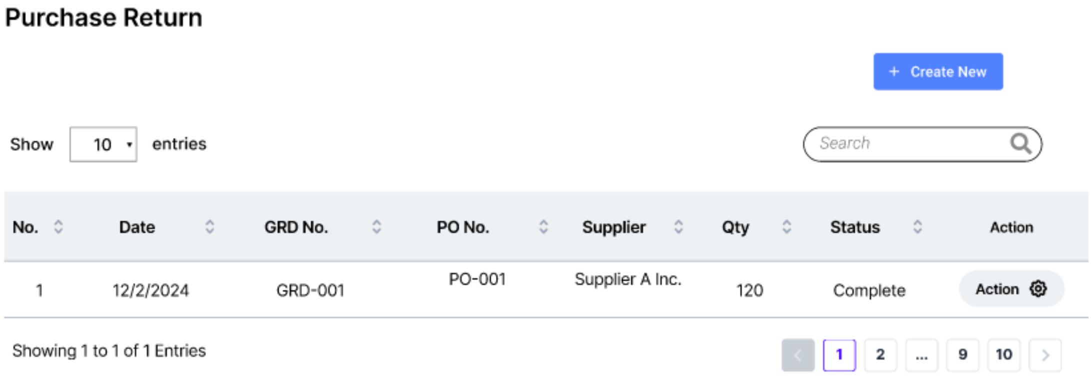


Figure 182: List

5. In Action column, user will have option dropdown to:
   i. View
   ii. Preview
   iii. Edit
   iv. Delete
6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. User can search based on each column or at main search field at the top.
8. User can sort column in increasing or decreasing order.
9. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in form.

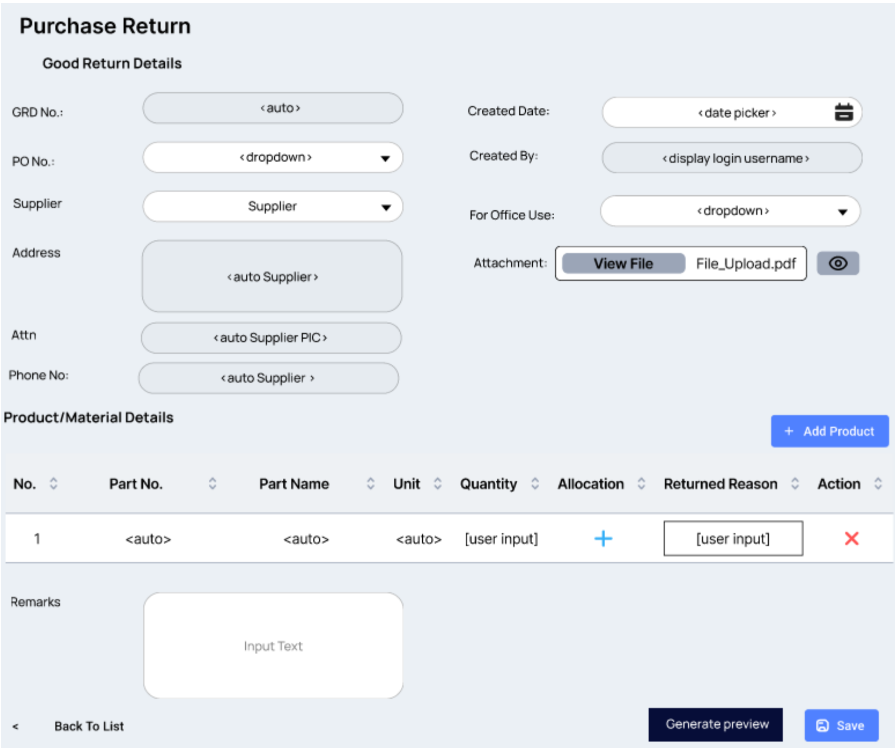


Figure 183: Information key-in create form

i. **GRD No.:** auto running no.
ii. **PO No.:** dropdown based on approved Purchase Order
iii. **Supplier**: dropdown based on supplier database
iv. **Address:** auto based on selected supplier
v. **Attn:** auto based on selected supplier's PIC
vi. **Phone No:** auto based on selected supplier's PIC Phone No.
vii. **Created Date:** auto display current date
viii. **Created By:** auto current logged in user
ix. **For Office Use:** static dropdown

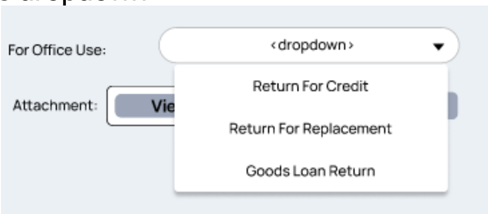


Figure 184: Static dropdown

x. **Attachment:** upload or download (image or file) with view action
xi. **Remarks:** textarea
xii. The product table consists of:
- Add Product button
- No.
- Part No: auto based on added product
- Part Name: auto based on added product
- Unit: auto based on added product
- Quantity: auto based on allocation
- Allocation: "+" button to assign location
- Returned Reason: text input
- Action: remove button

2. If user click "+" button, a modal will pop up as following for user to key in:

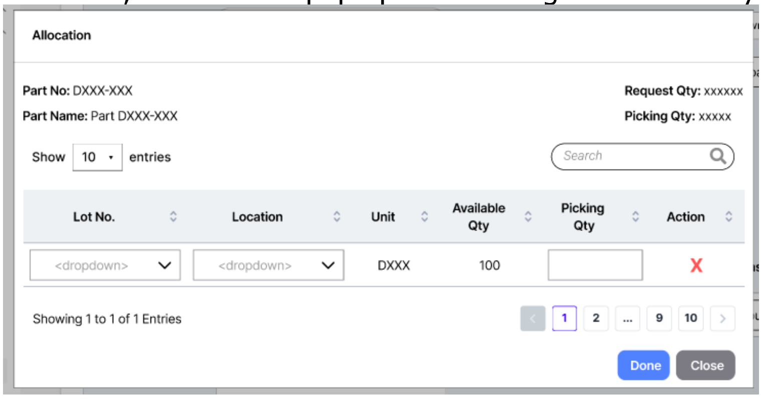


Figure 185: Choose location for the returned quantity

i. The modal consists of:
- Title
- Part No.: auto based on selected product
- Part Name: auto based on selected product
- Total Qty: auto sum based on keyed in quantity
- Entries filter
- Search box
- Lot No.: dropdown based on registered Lot No.

- Location: dropdown based on area database
- Unit: auto based on selected product
- Quantity: integer input
- Action: Add and remove
- Pagination
- Done button
- Close button

ii. Once the product is searched and selected, user has to click <Done> button to add it to the main table as shown below:

ceived Quantity	Rejected Qty	Rejected Reason	Accepted Qty	Remarks	Action
100	10	dented	90	urgent	+

Figure 186: New product is added into the table

3. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

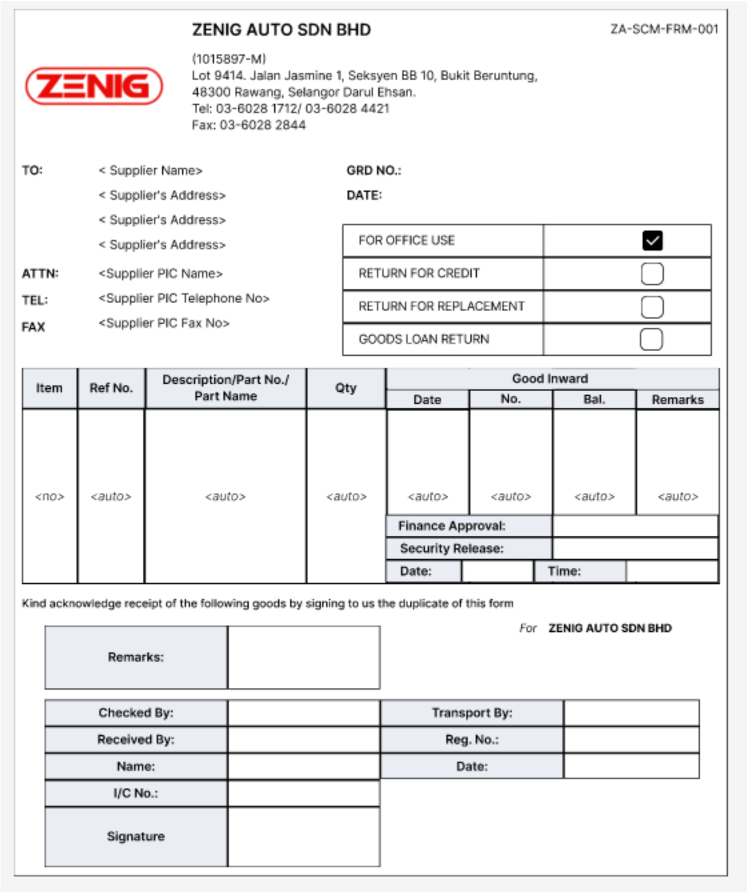
The screen layout will be differ based on the action and user can click action based on permission rights.

<u>Action: View</u>

1. Same as 4.2.1.B view action.
2. Generate Preview button to view the generated GRD.

<u>Action: Preview</u>

1. To view the generated GRD as shown below:



ZENIG AUTO SDN BHD ZA-SCM-FRM-001

(1015897-M)
Lot 9414. Jalan Jasmine 1, Seksyen BB 10, Bukit Beruntung,
48300 Rawang, Selangor Darul Ehsan.
Tel: 03-6028 1712/ 03-6028 4421
Fax: 03-6028 2844

TO: < Supplier Name>
< Supplier's Address>
< Supplier's Address>
< Supplier's Address>
ATTN: <Supplier PIC Name>
TEL: <Supplier PIC Telephone No>
FAX <Supplier PIC Fax No>

GRD NO.:
DATE:

FOR OFFICE USE	☑
RETURN FOR CREDIT	☐
RETURN FOR REPLACEMENT	☐
GOODS LOAN RETURN	☐

Item	Ref No.	Description/Part No./ Part Name	Qty	Good Inward			
				Date	No.	Bal.	Remarks
<no>	<auto>	<auto>	<auto>	<auto>	<auto>	<auto>	<auto>
				Finance Approval:			
				Security Release:			
				Date:		Time:	

Kind acknowledge receipt of the following goods by signing to us the duplicate of this form

For ZENIG AUTO SDN BHD

Remarks:	

Checked By:		Transport By:	
Received By:		Reg. No.:	
Name:		Date:	
I/C No.:			
Signature			

Figure 491: Preview

Action: Edit

1. Same as 4.2.1.B edit action.
2. Generate Preview button to view the GRD form.

Action: Verify

1. Display all information from the latest saved state in read-only mode.
2. Generate Preview button to view the generated GRD form.
3. Verify, Decline and Cancel button is available at the bottom of the page.
3. Once user click <Verify>, Date, Username, Designation and department will be auto display based on the current date and user information.
4. Click <Save> for the changes to be applied.
5. Status of the record will change to “Verified”.
6. User cannot edit anymore once verified and verify action can only be done one time.
7. If user click <Decline> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.
8. Once saved, status will change to “Declined”.
9. If user click <Cancel> button, Date, Username, Designation and Department will be auto display (based on the current date and user information) and Reason field to be keyed in by user.
10. If the form is edit after decline action, the status will revert back to “Submitted”. The user will need to verify the form again.

Notes:
- ➢ A notification will be sent if verification is not done within 1 hour.

Action: Delete

1. Same as 4.2.1.B delete action.

4.3 Report

4.3.1 Inventory Report

1. It shows a report's filter section and list of records.

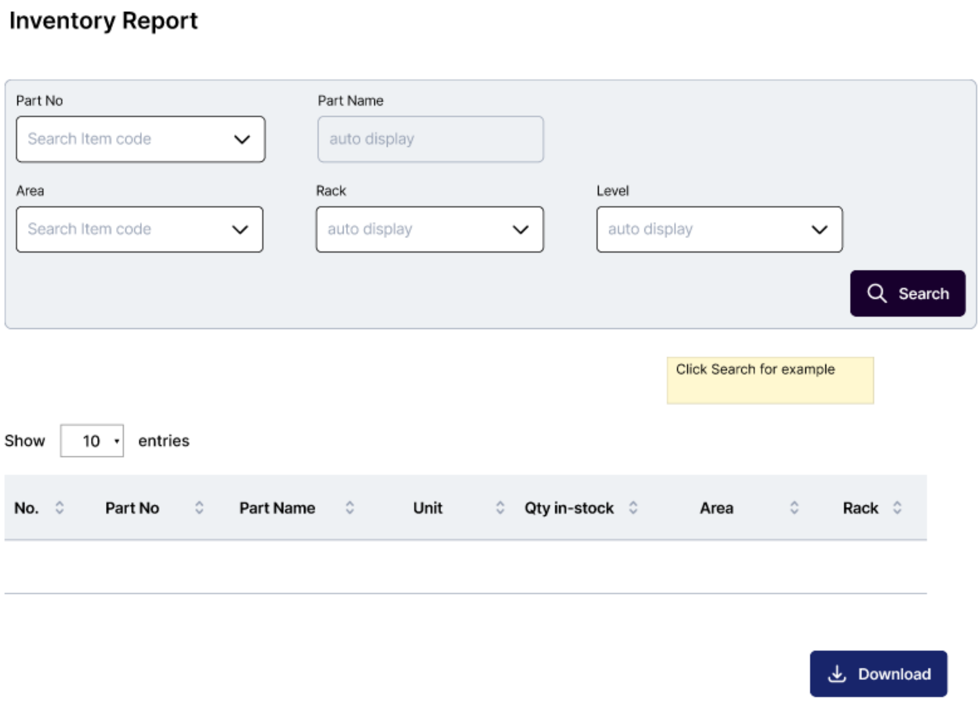


Figure 187: Inventory report

2. At the report filter section, it consists of:

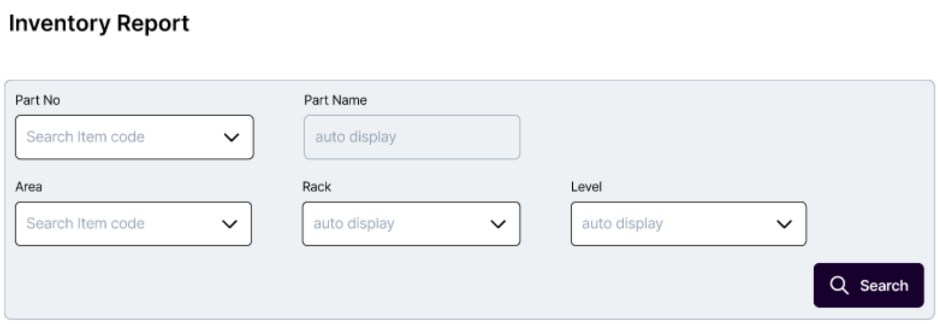


Figure 188: Filter section

- Search button
- **Part No.**: search dropdown based on Product database
- **Part Name**: auto display based on the Part No. selection
- **Area**: search dropdown
- **Rack**: search dropdown based on selected area

- **Level**: search dropdown based on selected area

3. The list item will show several columns below:
   i. No.
   ii. Part No.
   iii. Part Namec
   iv. Unit
   v. Quantity In - Stock
   vi. Area
   vii. Rack
   viii. Level

Show 10 entries

No.	Part No	Part Name	Unit	Qty in-stock	Area	Rack
1	P1234	Gear Housing	kg	100	A	1

Figure 189: List

4. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
5. User can search based on each column or at main search field at the top.
6. User can sort column in increasing or decreasing order.
7. User can download the report as csv format.

4.3.2 Stock Card Report

1. It shows a report's filter section and list of records.

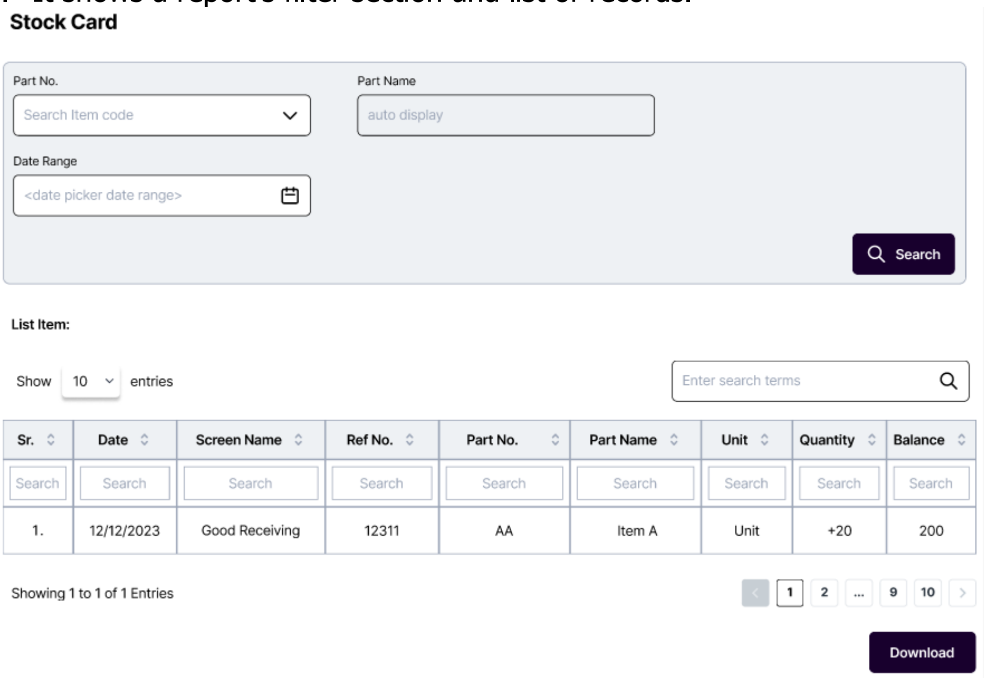


Figure 190: Stock Card

2. At the report filter section, it consists of:

Figure 191: Filter section

- Search button
- **Part No.:** dropdown based on product database
- **Part Name**: auto display based on the selected Part No.
- **Date range**: start date picker and end date picker

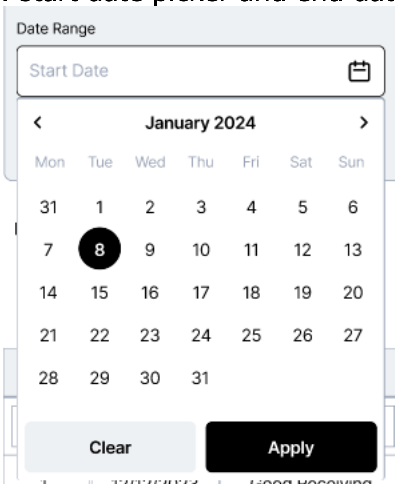


Figure 192: Date range picker (start date and end date)

3. The list item will show several columns below:
   i. Sr.
   ii. Date
   iii. Screen Name
   iv. Ref No.
   v. Part Name
   vi. Part No.
   vii. Unit
   viii. Quantity
   ix. Balance

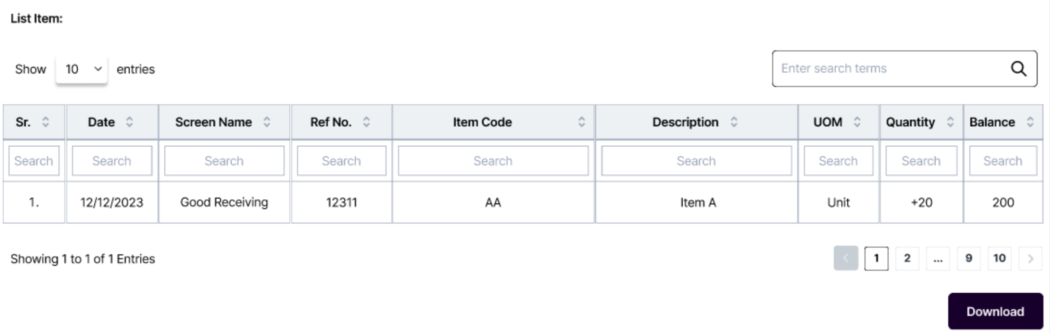


Figure 193: List

4. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
5. User can search based on each column or at main search field at the top.
6. User can sort column in increasing or decreasing order.
7. User can download the report as csv format.

4.3.3 Summary DO Report

1. It shows a report's filter section and list of records.

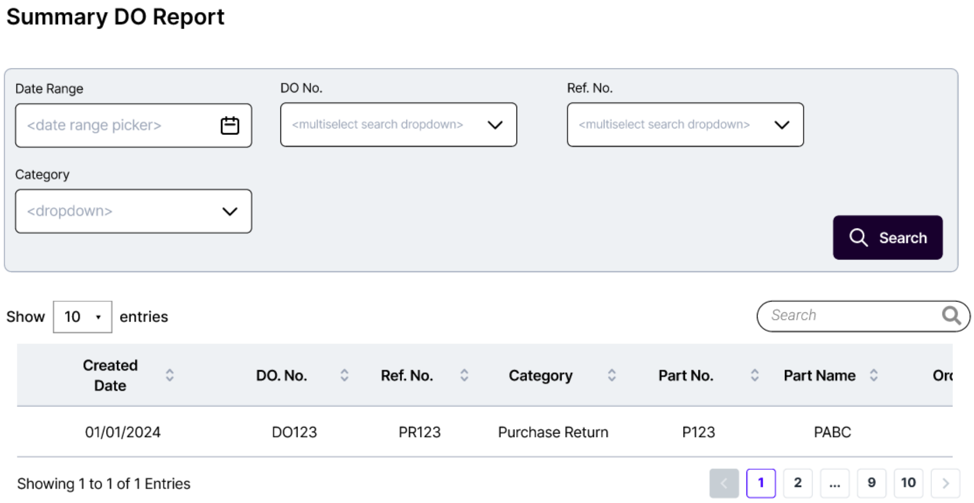


Figure 194: DO Summary report

2. At the report filter section, it consists of:

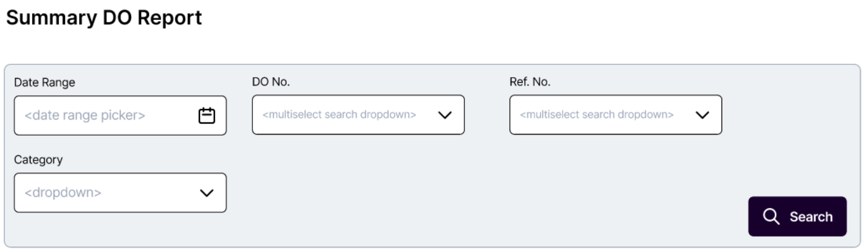


Figure 195: Filter section

- Search button
- **Date Range:** daterange picker

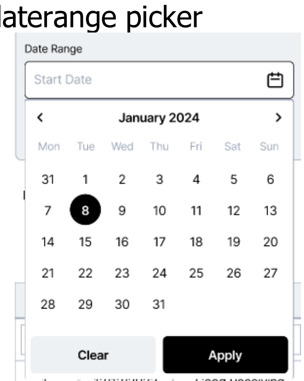


Figure 196: Date range picker (start date and end date)

- **DO No.:** multiselect dropdown with search
- **Ref No.:** multiselect dropdown with search

- **Category:** static dropdown

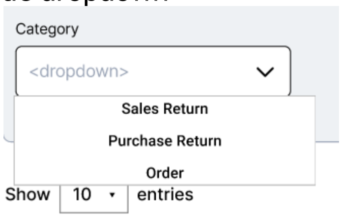


Figure 197: Outgoing form category dropdown

3. The list item will show several columns below:
   i. No.
   ii. Created Date
   iii. DO No.
   iv. Ref No.
   v. Category
   vi. Part No
   vii. Part Name
   viii. Order Qty
   ix. Delivered Qty

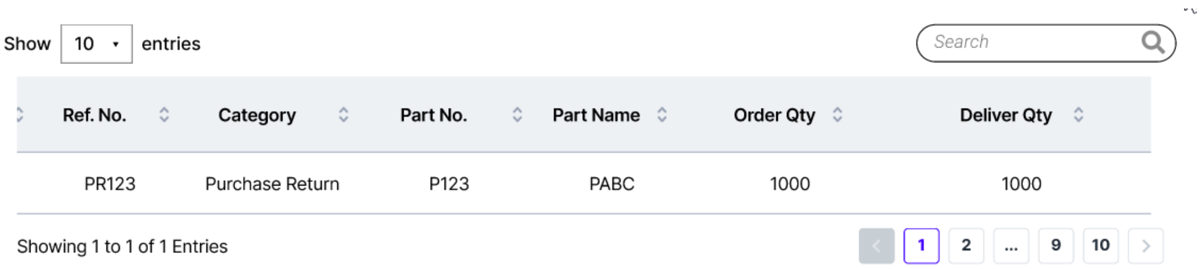


Figure 198: List

4. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
5. User can search based on each column or at main search field at the top.
6. User can sort column in increasing or decreasing order.
7. User can download the report as csv format.

5 Setting

At the top navigation menu, there are four main menu which are **ERP**, **MES**, **WMS** and **Setting**. Under "**Setting**" module, it consists of several sub-module which are Administration, Database and General Setting.

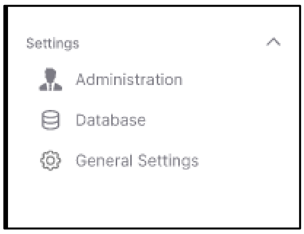


Figure 199: Setting Menu

5.1 Administration

5.1.1 User Registration

A. List

1. It shows list of records.
2. Authorized user can create a new user.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Username
   iii. Full Name
   iv. Email address
   v. Active
   vi. Action

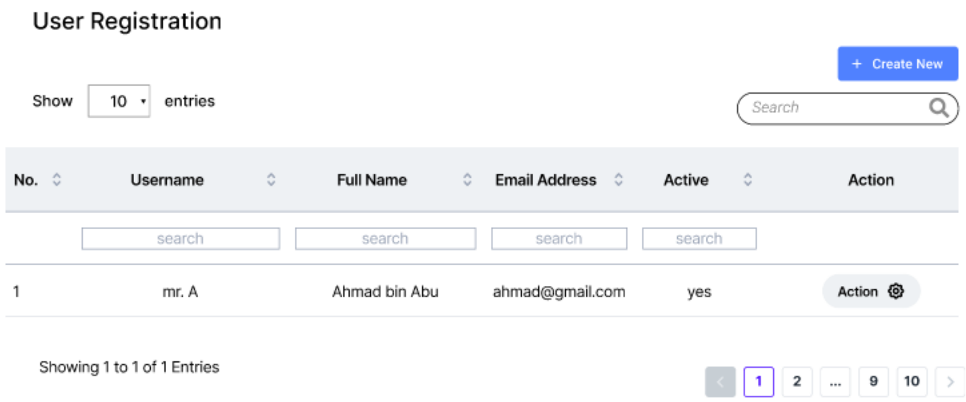


Figure 200: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form. All is required (*) except Phone No.

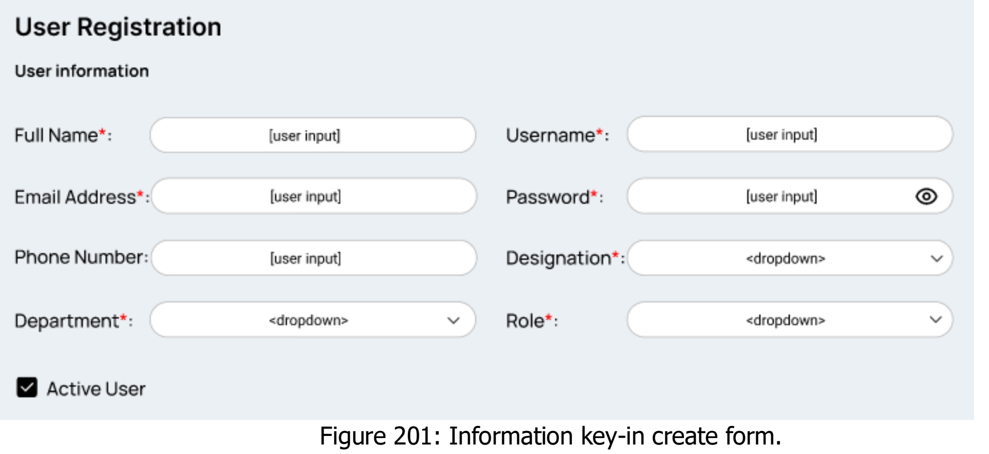


Figure 201: Information key-in create form.

i. **Active User**: checkbox
ii. **Full Name**: text input
iii. **Email address**: text input, should be unique
iv. **Phone No.**: input text
v. **Department**: dropdown

Figure 202: Department dropdown

vi. **Username**: input text, should be unique
vii. **Password**: input text
viii. **Designation**: dropdown

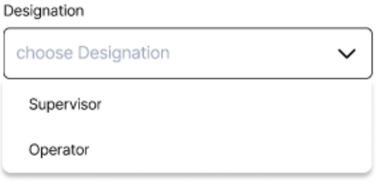


Figure 203: Designation dropdown

ix. **Role**: dropdown

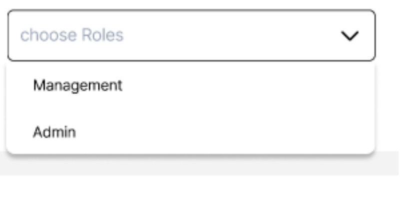


Figure 204: Role dropdown

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights.

Action: View

1. Display all information in Read-only mode.

Action: Edit

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

Action: Delete

1. User can delete a record.

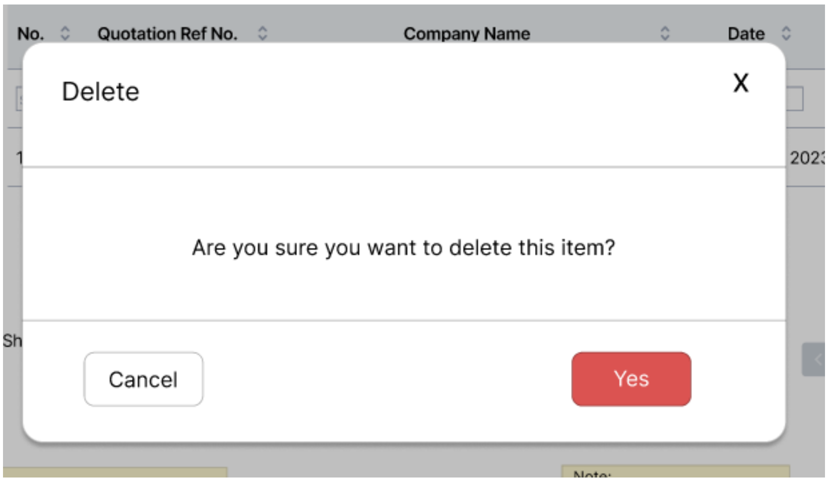


Figure 205: Delete action.

5.1.2 Role and Permission

A. List

1. It shows list of records.
2. Authorized user can create a new role.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Role
   iii. Action

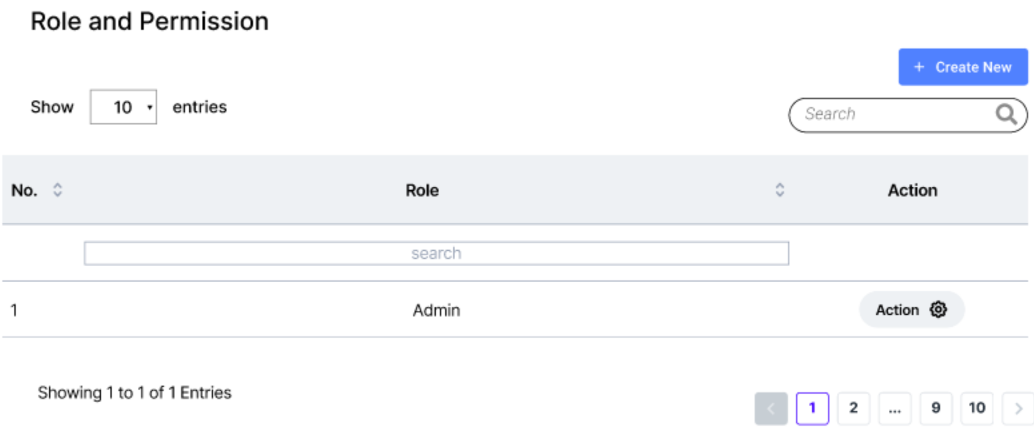


Figure 206: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the Roles tab.
   <u>Roles</u>

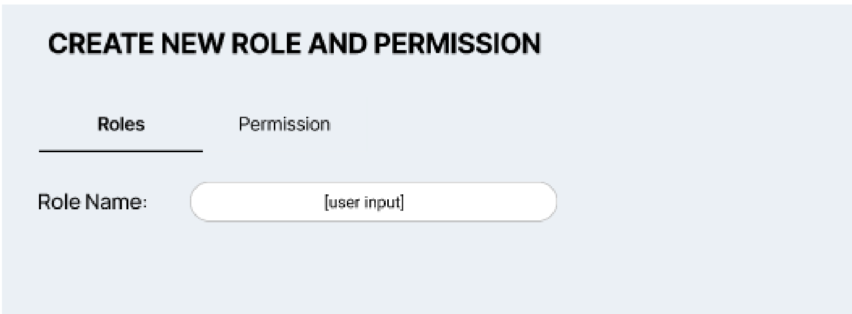


Figure 207: Information key-in Roles.

i. **Role name**: input text, required and should be unique.

2. User fill-in details in the Permission tab.
   Permission

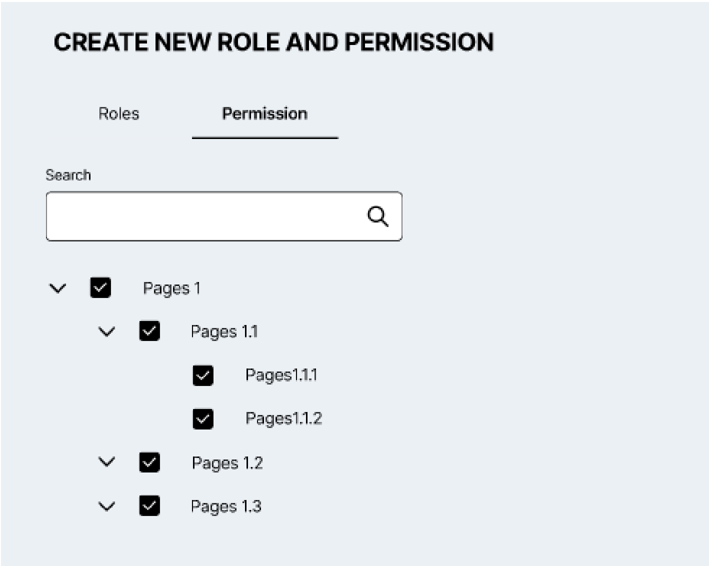


Figure 208: Information key-in create form.

   i. **Searchbox**
   ii. **Checkbox permission for each screen**

3. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as "5.1.1 Form B".

5.1.3 Department

A. List

1. It shows list of records.
2. Authorized user can create a new department.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr#
   ii. Department Name
   iii. Action

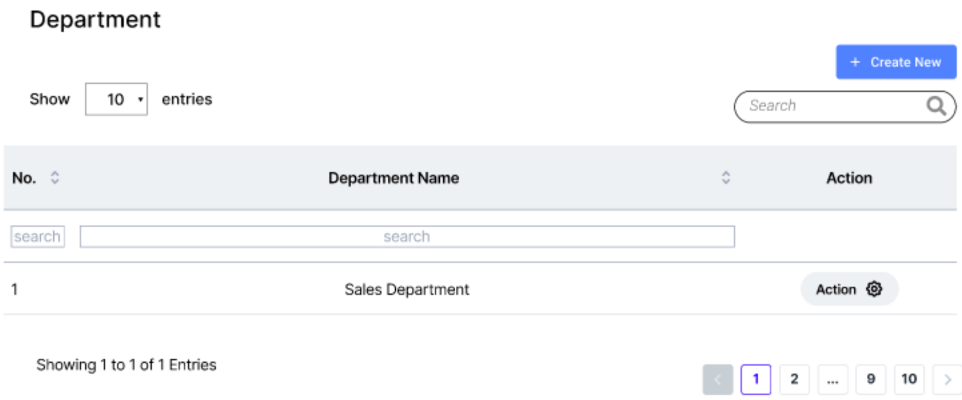


Figure 209: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

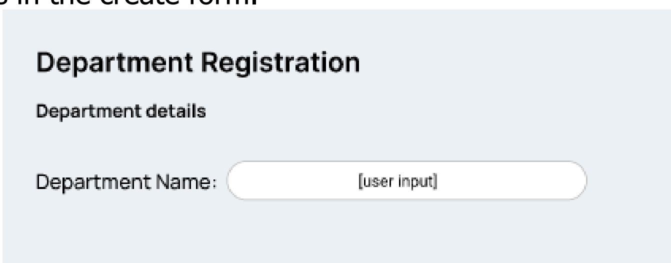


Figure 210: Information key-in create form.

   i. **Department Name**: input text, required and should be unique

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as "5.1.1 Form B".

5.1.4 Designation

A. List

1. It shows list of records.
2. User can create a new designation.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.

5. The list will show several columns below:
   i. Sr#
   ii. Designation
   iii. Action

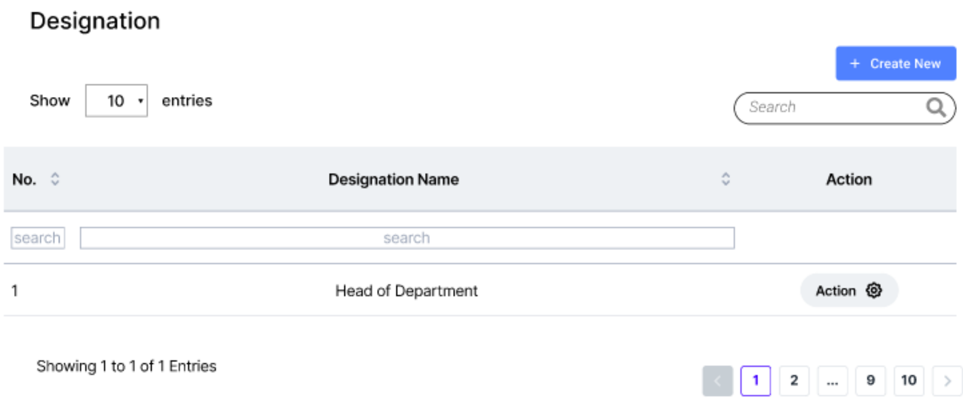


Figure 211: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

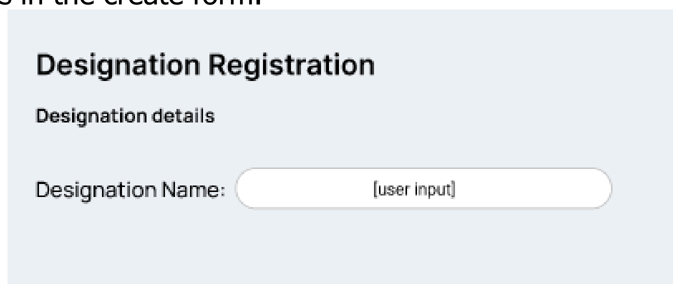


Figure 212: Information key-in create form.

   i. **Designation Name**: input text, required and should be unique

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as "5.1.1 Form B".

5.2 Database

5.2.1 Product

A. List

1. It shows list of products.
2. Last sync date is stated above the search box.
3. The list will show several columns below:
   - i. Sr.
   - ii. Part No.
   - iii. Part Name
   - iv. Type of Product
   - v. Supplier Name (if any)
   - vi. Supplier Product Code (if any)
   - vii. Customer Name (if any)
   - viii. Customer Product Code (if any)
   - ix. MOQ
   - x. Description
   - xi. Variance
   - xii. Model
   - xiii. Part Weight
   - xiv. Unit
   - xv. Amortization Qty
   - xvi. Delivered Qty (Note: Delivered Qty + Opening Qty – if any)
   - xvii. Balanced Amortization to Complete
   - xviii. Action

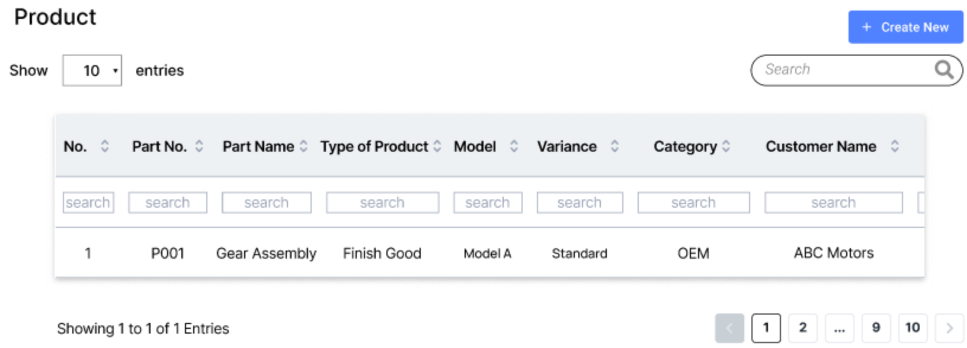


Figure 213: List

4. In Action, user will have option dropdown to:
   - i. View
   - ii. Edit
   - iii. Ammortization
   - iv. Delete
5. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
6. User can search based on each column or at main search field at the top.
7. User can sort column in increasing or decreasing order.
8. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

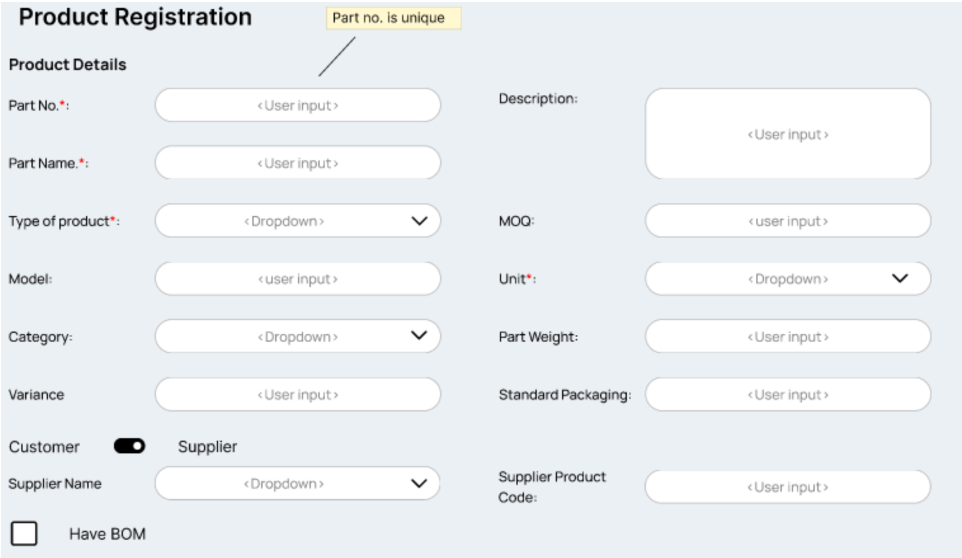


Figure 214: Information key-in create form.

i. **Part No.:** text input, required and should be unique
ii. **Part Name:** text input, required
iii. **Type of Product:** static dropdown

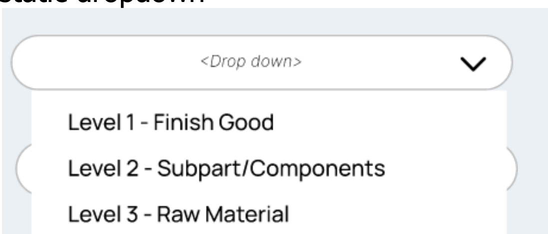


Figure 215: Type of Product dropdown

iv. **Model:** text input
v. **Category**: static dropdown

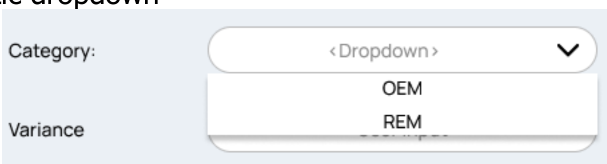


Figure 216: Category dropdown

vi. **Variance:** text input
vii. **Description:** textarea
viii. **MOQ:** integer input
ix. **Unit:** dropdown, auto display based on unit database and required
x. **Part Weight:** integer input
xi. **Standard Packaging:** text input
xii. **Customer/Supplier**: toggle button to switch fields for customer or supplier details (xiii and xiv)
xiii. **Customer/Supplier Name:** dropdown, auto display based on customer database
xiv. **Customer/Supplier Product Code:** text input
xv. **Have BOM**: checkbox to allow user select part to create BOM

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights.

Action: View

1. Display all information in Read-only mode.

Action: Edit

1. Display all information from the latest saved state.
2. User can edit the details that is not in read-only mode.
3. Save and Back button is available in the bottom-right of the page.

Action: Ammortization

1. Only authorized user can access this action and form.

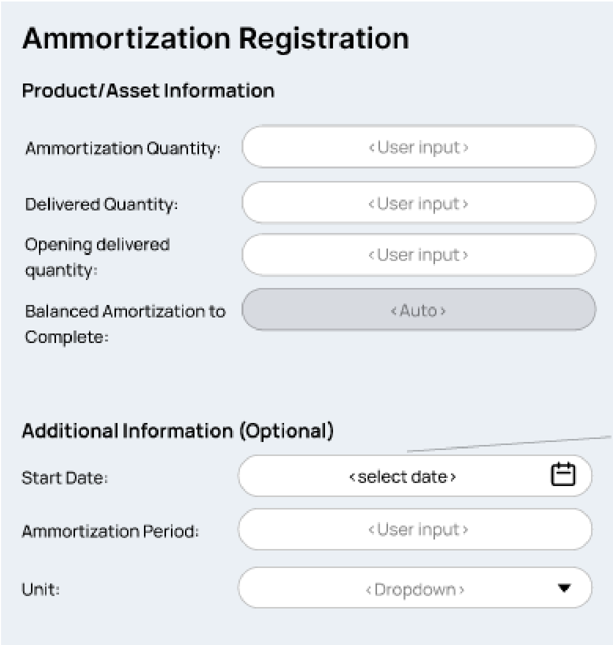


Figure 217: Information key-in create form.

   i. Product/Asset Information section consist of:
      - **Amortization Quantity:** integer input
      - **Opening Delivered Quantity:** integer input
      - **Delivered Quantity:** integer input
      - **Balance Amortization to Complete:** text input
   ii. Additional Information (Optional) section consist of:
      - **Start Date:** datepicker
      - **Ammortization Period:** integer input
      - **Unit:** dropdown, auto based on unit database
2. Save and Back button is available in the bottom-right of the page.

Action: Delete

1. User can delete a record.

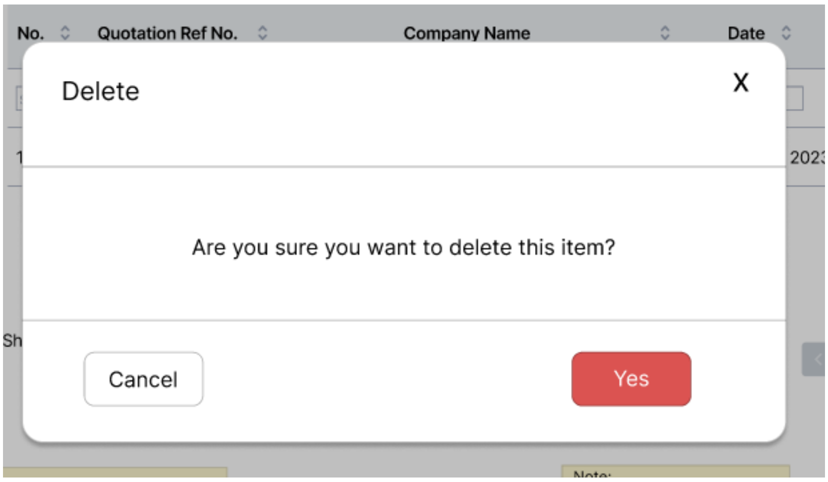


Figure 218: Delete action.

5.2.2 Supplier

A. List

1. It shows list of records.
2. User can create a new supplier.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
    i. Sr.
    ii. Supplier Name
    iii. Supplier Address
    iv. Contact Number
    v. Group
    vi. Action

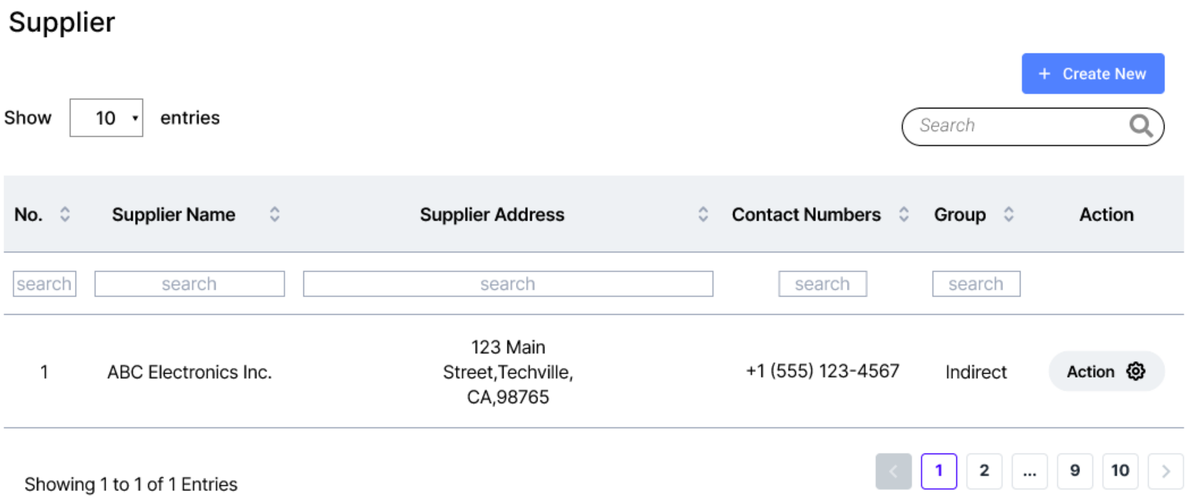


Figure 219: List

6. In Action, user will have option dropdown to:
    i. View
    ii. Edit
    iii. Delete

7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill-in details in the create form.

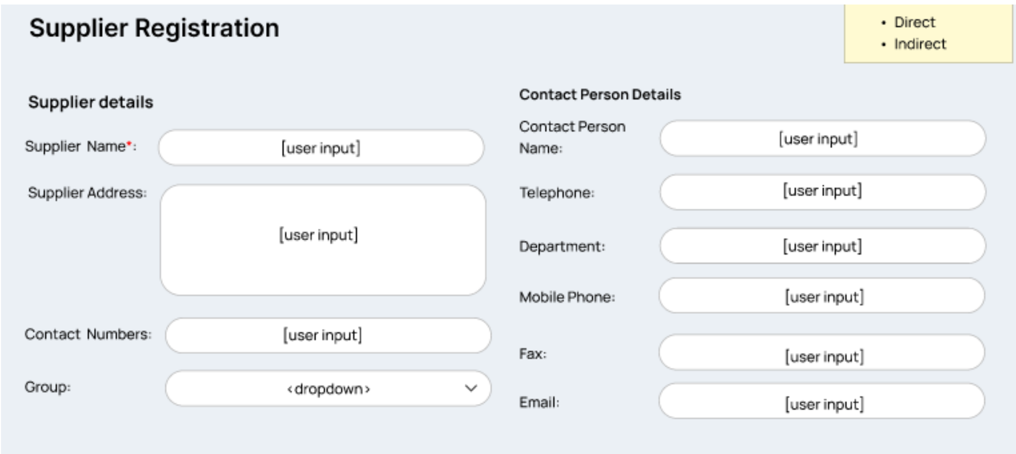


Figure 220: Information key-in create form.

i. Supplier Details section consist of:
   - **Supplier Name**: Input text, required and should be unique
   - **Supplier Address**: textarea
   - **Contact Numbers**: Input text
   - **Group:** static dropdown

Figure 221: Category dropdown

ii. Contach Person Details section consist of:
   - **Contact Person Name**: Input text
   - **Department**: Input text
   - **Mobile Phone**: Input text
   - **Telephone**: Input text
   - **Fax**: Input text
   - **Email**: Input text

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.3 Customer

A. List

1. It shows list of records.
2. User can create a new customer.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Customer Name
   iii. Customer Address
   iv. Customer Phone No.
   v. Action

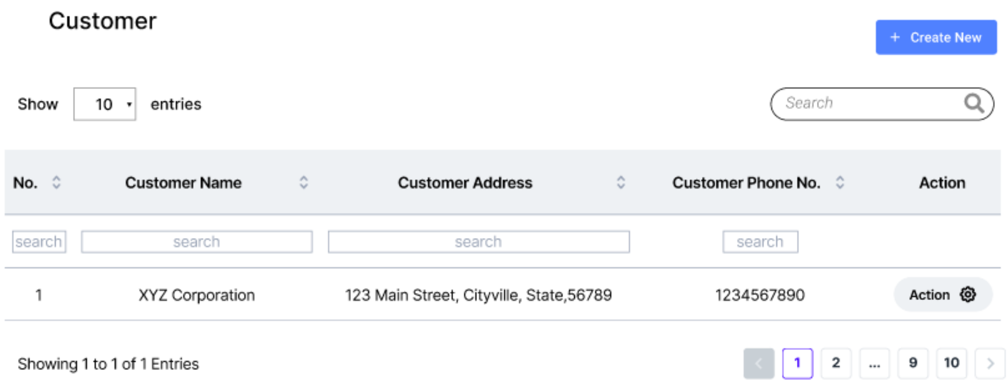


Figure 222: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

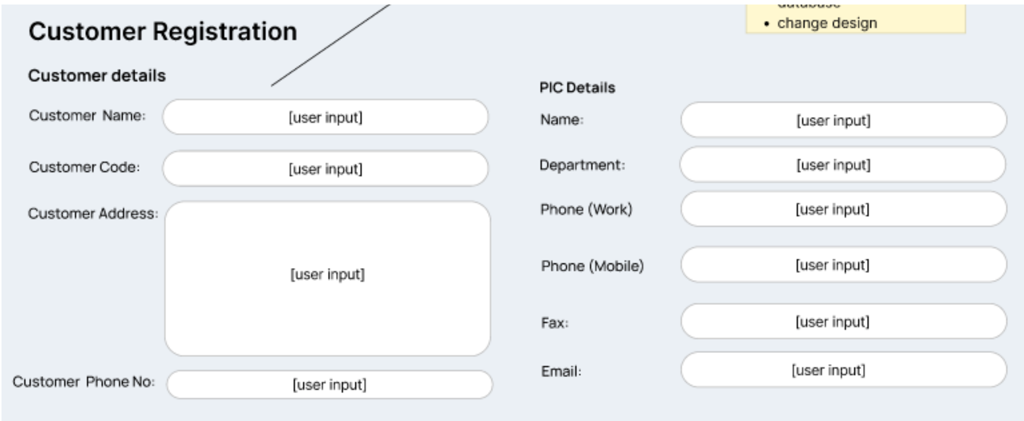


Figure 223: Information key-in create form.

i. Customer Details section consist of:
   - **Customer Name**: Input text, required and should be unique
   - **Customer Code**: Input text
   - **Customer Address**: textarea
   - **Customer Phone No.**: Input text

ii. PIC Details section consist of:
   - **Name**: Input text
   - **Department**: Input text
   - **Phone (Work)**: Input text
   - **Phone (Mobile)**: Input text
   - **Fax**: Input text
   - **Email**: Input text

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.4 Process

A. List

1. It shows list of records.
2. User can create a new process.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Process Name
   iii. Process Code
   iv. Description
   v. Action

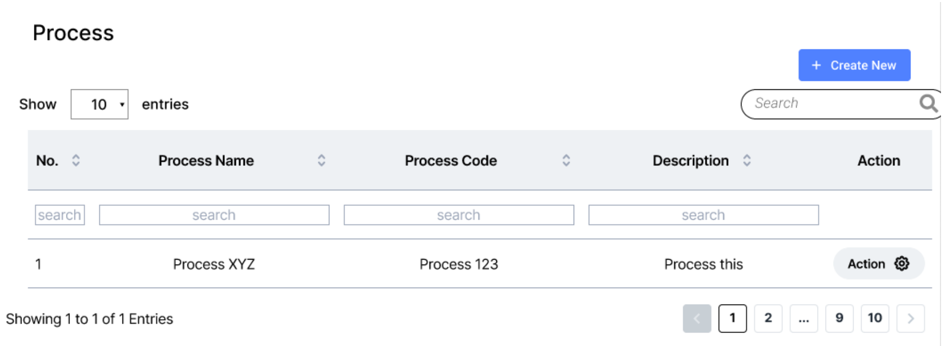


Figure 224: List

6. In Action, user will have option dropdown to:
    i. View
    ii. Edit
    iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

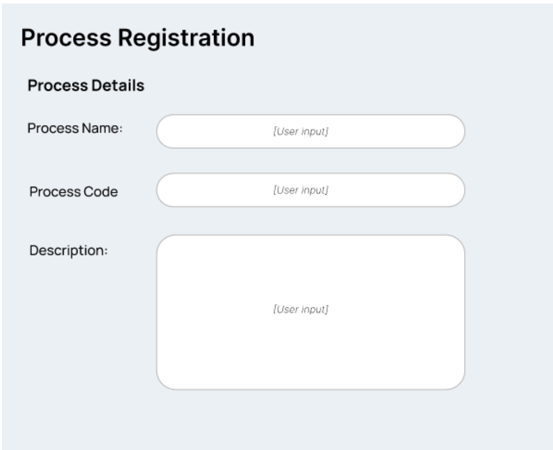


Figure 225: Information key-in create form.

i. **Process Name**: Input text, required and should be unique
ii. **Process Code:** Input text
iii. **Description**: Input text

2. At the bottom there are several buttons:
    - <Save> button to save and the record will be listed in the main list.
    - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.5 Unit

A. List

1. It shows list of records.
2. User can create a new unit.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Unit Name
   iii. Unit Code
   iv. Action

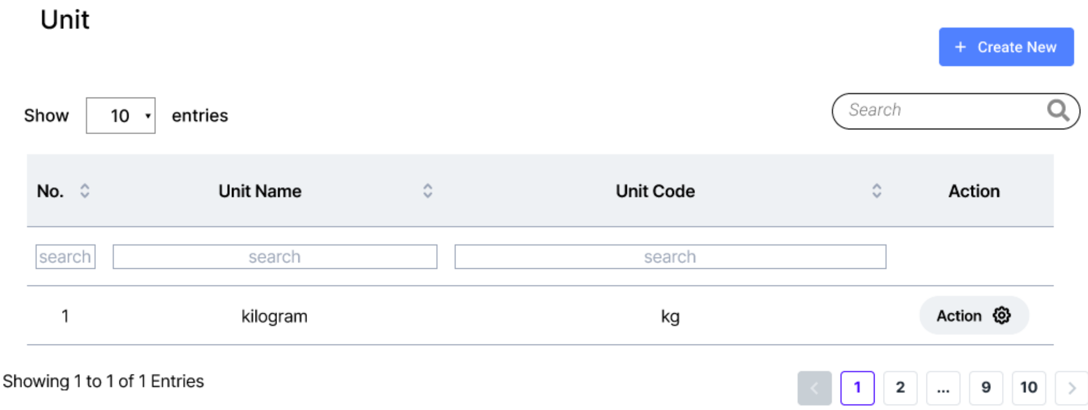


Figure 226: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

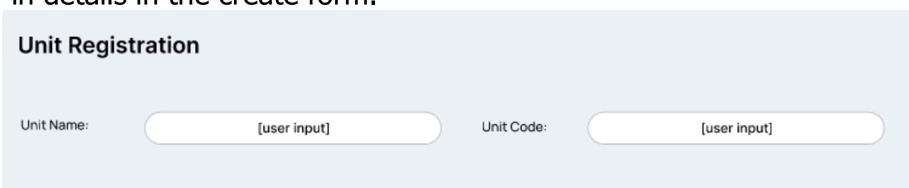


Figure 227: Information key-in create form.

   i. **Unit Name**: Input text, required and should be unique
   ii. **Unit Code**: Input text, required and should be unique

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.6 Area - Level

A. List

1. It shows list of records.
2. User can create a new area - level.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Area Level
   iii. Level Code
   iv. Action

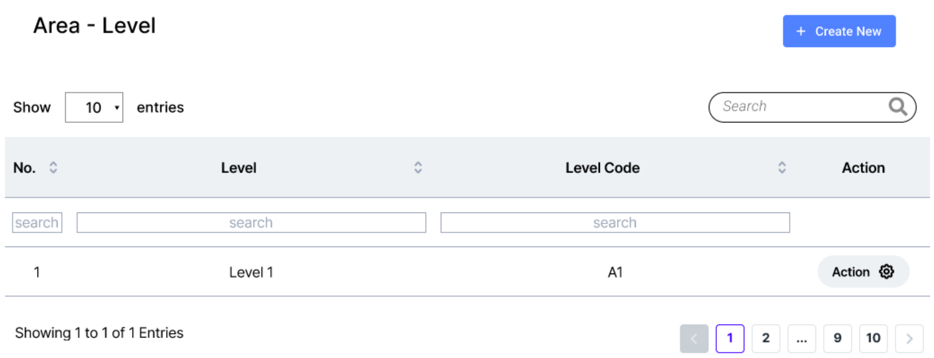


Figure 228: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

Figure 229: Information key-in create form.

i. **Area Level**: Input text
ii. **Area Level code**: Input text

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.7 Area - Rack

A. List

1. It shows list of records.
2. User can create a new area - rack.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Rack
   iii. Rack Code
   iv. Action

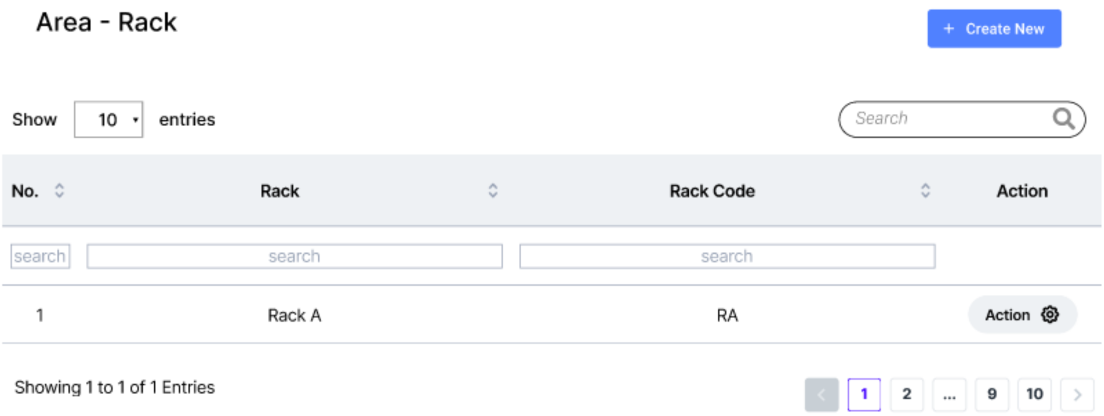


Figure 230: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

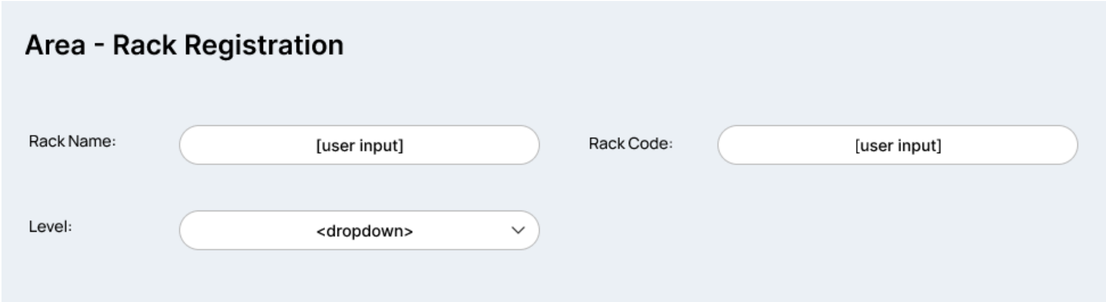


Figure 231: Information key-in create form.

i. **Rack Name**: Input text
ii. **Rack code**: Input text
iii. **Level**: multiselect dropdown

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.8 Area

A. List

1. It shows list of records.
2. User can create a new area.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Area
   iii. Area Code
   iv. Department
   v. Action

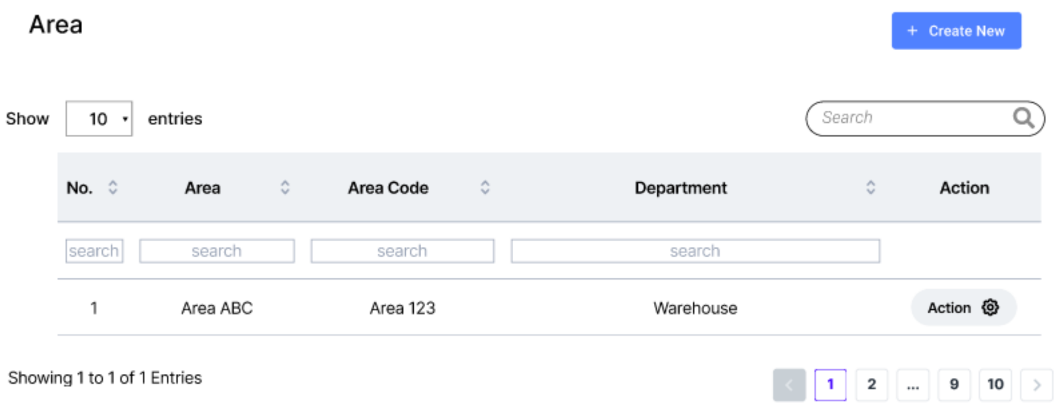


Figure 232: List

6. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
7. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
8. User can search at main search field at the top or based on column.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill-in details in the create form.

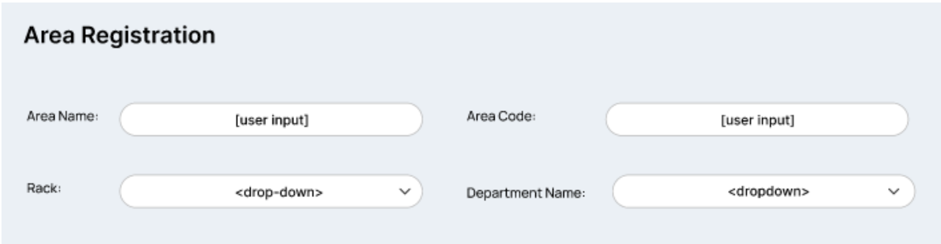


Figure 233: Information key-in create form.

   i. **Area**: Input text
   ii. **Area code**: Input text
   iii. **Rack**: multiselect dropdown based on Area – Rack database
   iv. **Department Name**: dropdown based on Department database

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.9 Machine

A. List

1. It shows list of records.
2. User can create a new machine.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Machine Name
   iii. Machine Code
   iv. Machine Tonnage
   v. Action

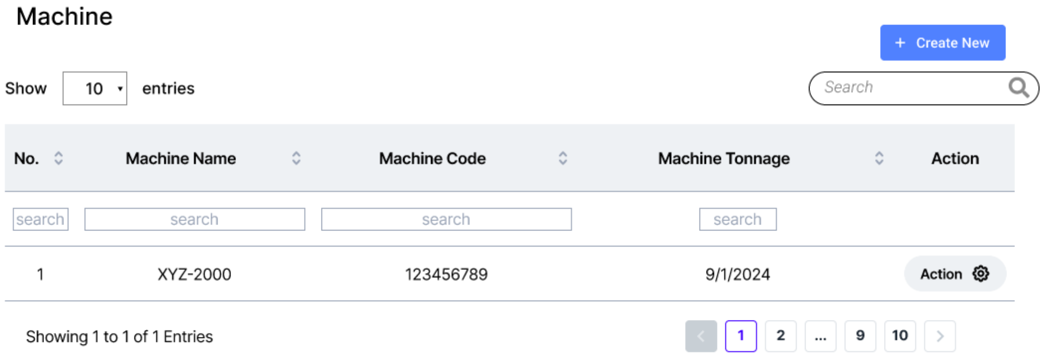


Figure 234: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete (Only for superadmin)
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. Create is (only for superadmin).

<u>Create new</u>

1. User fill-in details in the create form.

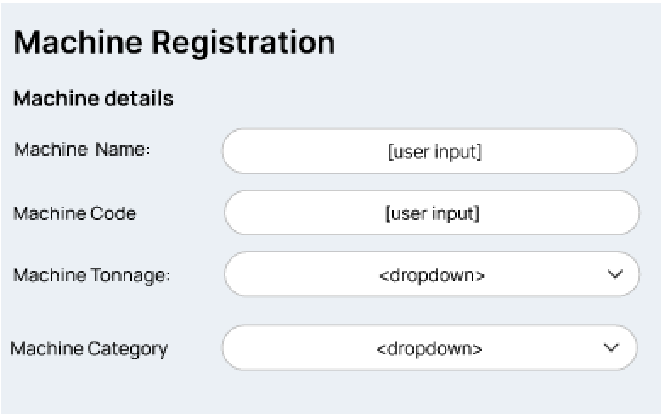


Figure 235: Information key-in create form.

   i. **Machine Name**: Input text, required and should be unique
   ii. **Machine Code**: Input text, required and should be unique
   iii. **Machine Tonnage**: Input text
   iv. **Machine Category**: static dropdown

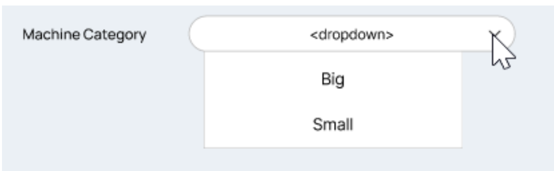


Figure 236: Machine Category dropdown

2. At the bottom there are several buttons:

- <Save> button to save and the record will be listed in the main list.
- <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View and Delete action at "5.2.1 Form B".

<u>Action: Edit</u>

1. Display all information from the latest saved state.
2. User can only edit the following details:
    - Machine Tonnage
    - Machine Category
3. Save and Back button is available in the bottom-right of the page.

5.2.10 Machine Tonnage

A. List

1. It shows list of records.
2. User can create a new machine tonnage.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
    i. Sr.
    ii. Machine Tonnage
    iii. Action

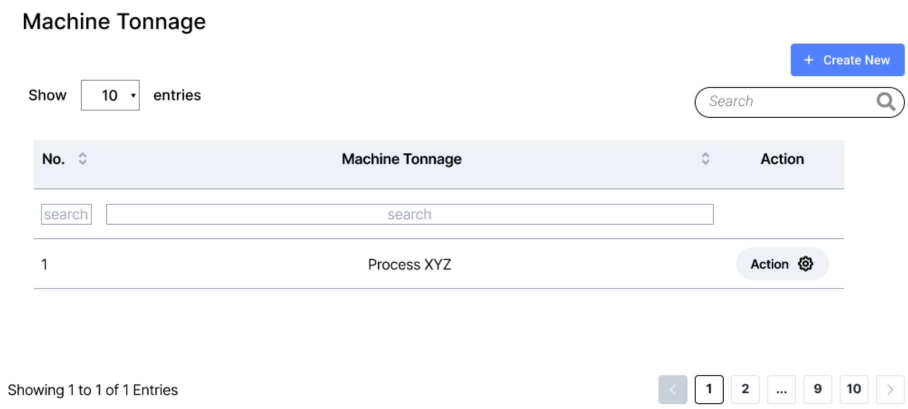


Figure 237: List

6. In Action, user will have option dropdown to:
    i. View
    ii. Edit
    iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

Create new

1. User fill-in details in the create form.

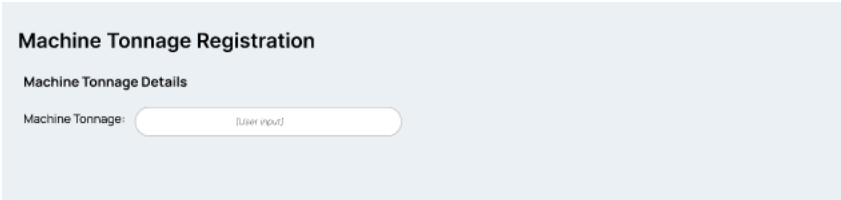


Figure 238: Information key-in create form.

i. **Machine Tonnage**: Input text, required and should be unique

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.11 Type of Product

A. List

1. It shows list of records.
2. User can create a new Type of Product.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Type of Product
   iii. Description
   iv. Action

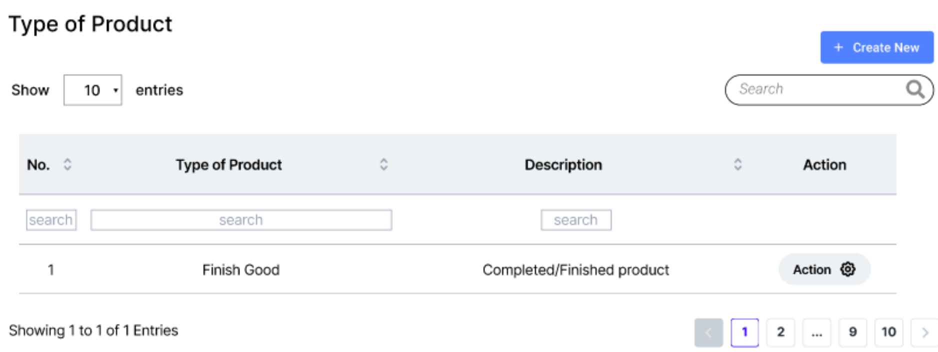


Figure 239: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.

8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

Figure 240: Information key-in create form.

i. **Type of Product**: Input text, required and should be unique
ii. **Description**: textarea

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.2.12 Type of Rejection

A. List

1. It shows list of records.
2. User can create a new Type of Rejection.
3. Create button is available above the main search box.
4. Saved form will be listed in this list screen.
5. The list will show several columns below:
   i. Sr.
   ii. Type of Rejection
   iii. Action

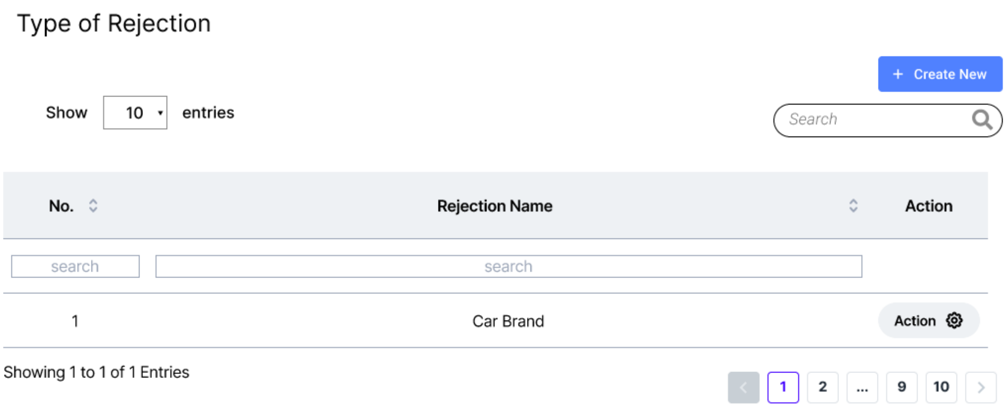


Figure 241: List

6. In Action, user will have option dropdown to:
   i. View
   ii. Edit
   iii. Delete
7. User can filter the list based on entries and search based on the pagination. Pagination has server-side processing if the list is too large.
8. User can search based on each column or at main search field at the top.
9. User can sort column in increasing or decreasing order.
10. User can click "Create" button to create new record.

<u>Create new</u>

1. User fill-in details in the create form.

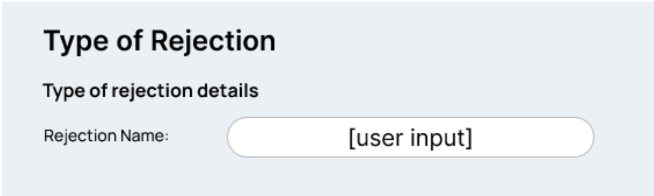


Figure 242: Information key-in create form.

   i. **Rejection Name**: Input text, required and should be unique

2. At the bottom there are several buttons:
   - <Save> button to save and the record will be listed in the main list.
   - <Back to list> button is on the bottom left of the page if user want to cancel.

B. Form

The screen layout for form will be differ based on the action and user can click action based on permission rights. Same as View, Edit and Delete action at "5.2.1 Form B".

5.3 General Setting

General Setting will display the setting tab layout/form and only be accessible by authorized user.

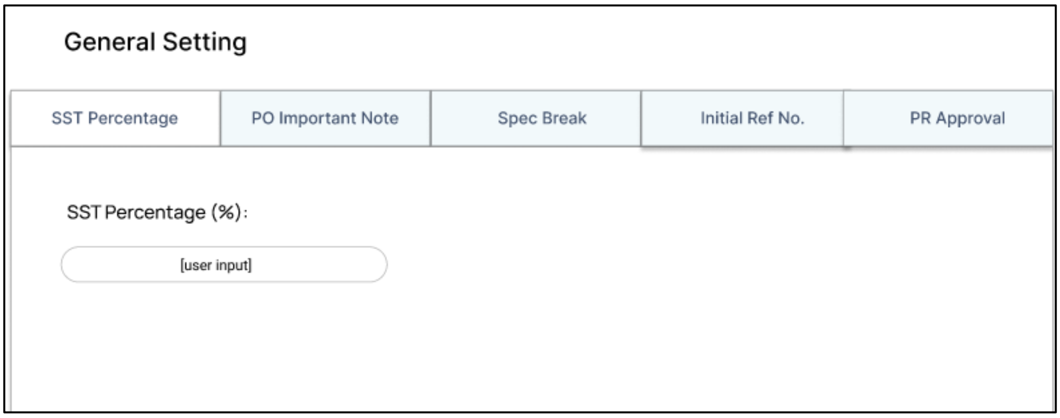


Figure 243: General Setting forms

5.3.1 SST Percentage

1. By default, will shows the form for user to edit.
2. <Save> button is available at the bottom right.

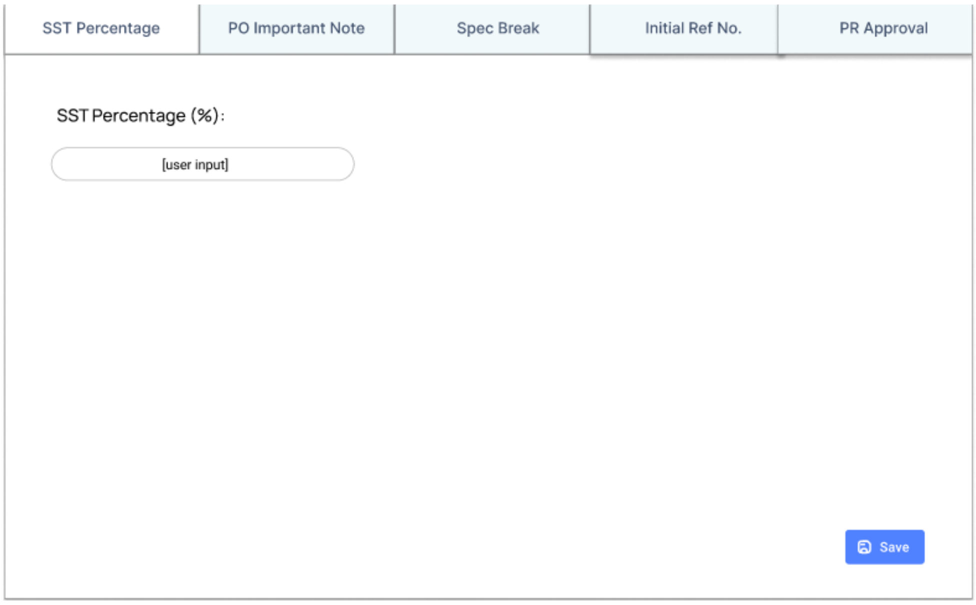


Figure 244: Information key-in

i. **SST Percentage (%)**: input text

5.3.2 PO Important Note

1. By default, will shows the form for user to edit.
2. <Save> button is available at the bottom right.

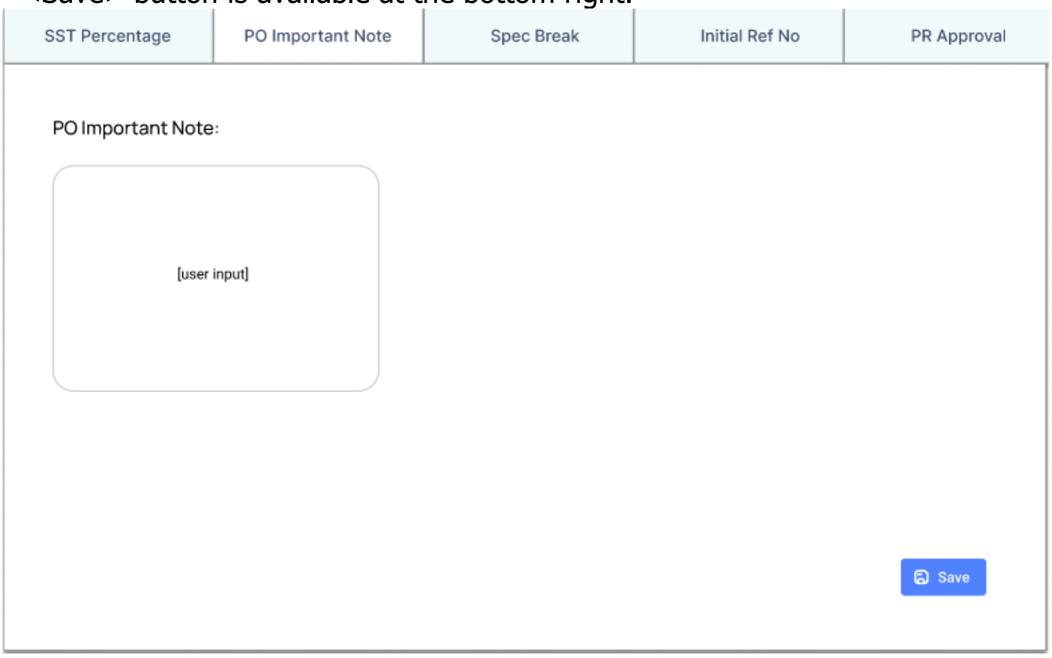


Figure 245: Information key-in

i. **PO Important Note**: textarea

5.3.3 Spec Break

1. By default, will shows the form for user to edit.
2. <Save> button is available at the bottom right.

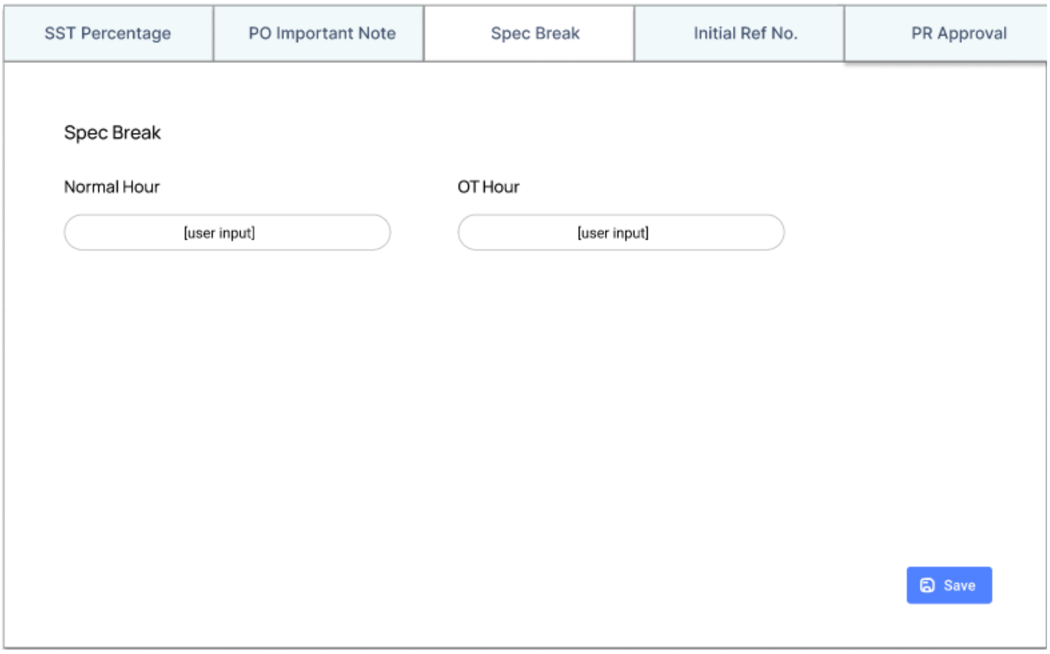


Figure 246: Information key-in

i. **Normal Hour**: integer input
ii. **OT Hour**: integer input

5.3.4 Initial Ref No

1. By default, will shows the form for user to edit.
2. <Save> button is available at the bottom right.

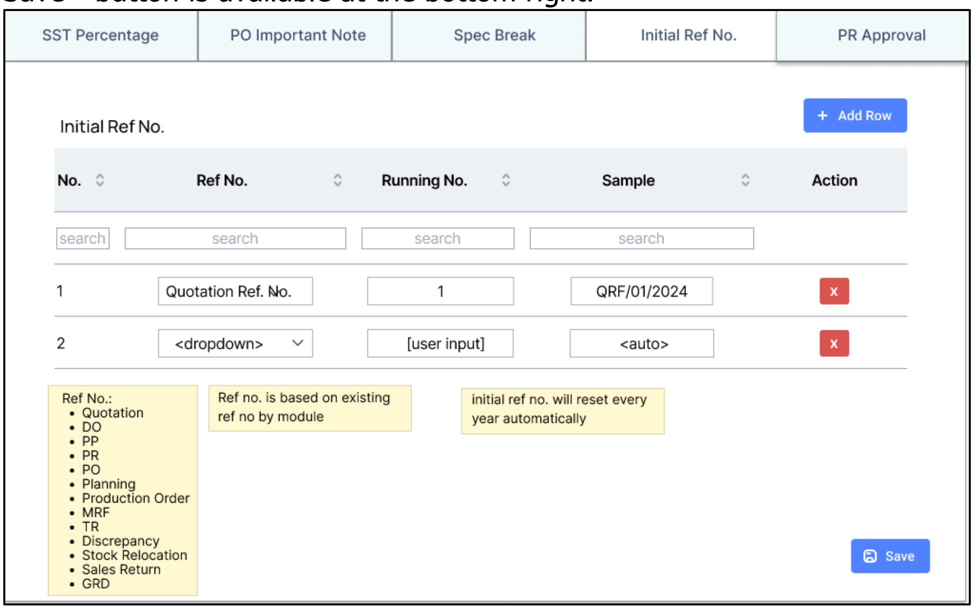


Figure 247: Information key-in

i. Add Row: button (super admin only)
ii. **Ref No:** auto based on existing ref no. by module (e.g. Quotation Ref No./ PO No./DO No.)
iii. **Running No.:** integer input
iv. **Sample:** auto

v. **Action:** remove button (super admin only)

5.3.5 PR Approval

1. By default, will shows the form for user to edit.
2. <Save> button is available at the bottom right.

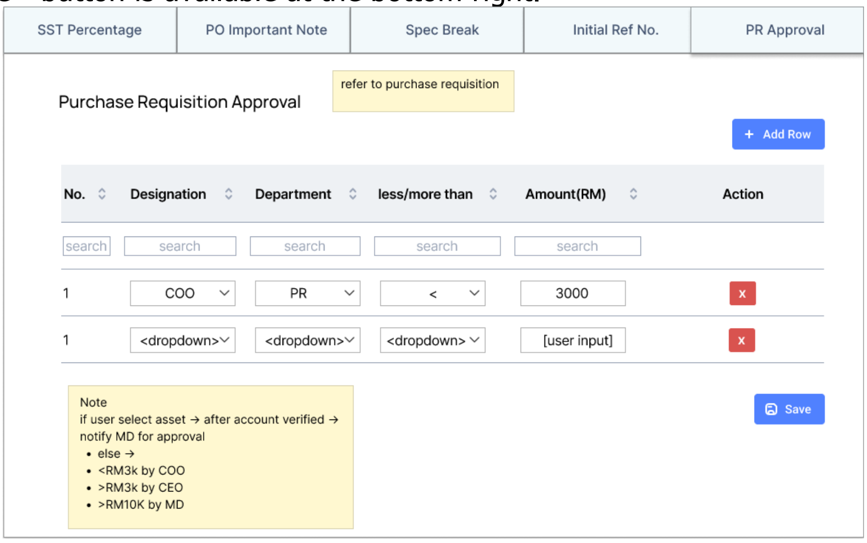


Figure 248: Information key-in

i. **Normal Hour**: integer input
ii. **OT Hour**: integer input

6 Notification, User and Logout

1. Current user role, name and Logout button will be displayed as below:

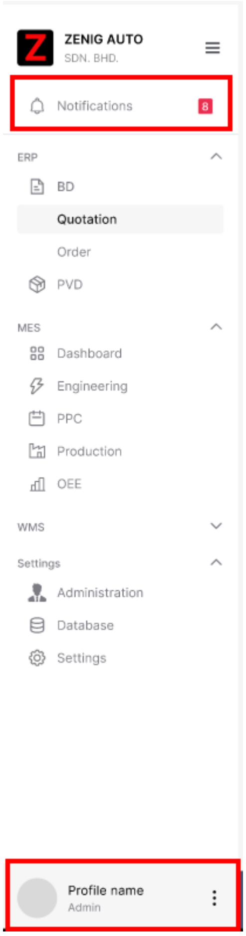
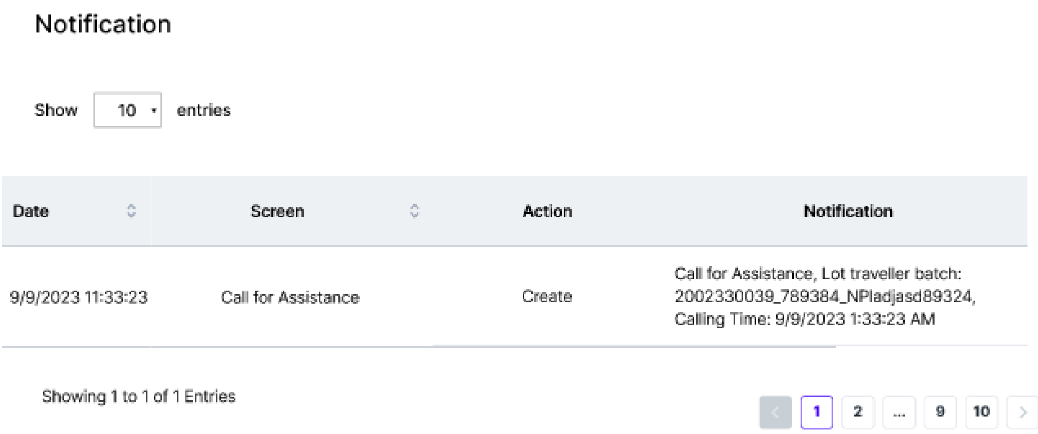


Figure 249: Notification, user and logout.

2. Notification will be recorded in a list which consist of:
   i. Date
   ii. Screen
   iii. Action
   iv. Notification


Notification

Show 10 entries

Date	Screen	Action	Notification
9/9/2023 11:33:23	Call for Assistance	Create	Call for Assistance, Lot traveller batch: 2002330039_789384_NPladjasd89324, Calling Time: 9/9/2023 1:33:23 AM

Showing 1 to 1 of 1 Entries

1 2 ... 9 10

Figure 250: Notification, user and logout.

Both parties are agreed to the stated scope of work and design (in this document) for the development of MaDAMS system for **ZENIG AUTO SDN BHD**. Any additional scope of work requested by **ZENIG AUTO SDN BHD** will be discussed further with **TECHCAPITAL RESOURCES SDN BHD. Note: Subjected to feasibility and Attachments.**

Prepared by:	)	Ms. Nur Niqmah Atira Badean Software Engineer
Verified by:	)	
for and on behalf of	)	
TechCapital Resources Sdn Bhd	)	
		-- Name: Designation:
Accepted by:	)	
for and on behalf of	)	
Zenig Auto Sdn Bhd	)	
		-- Name: Designation: