Functional Requirement

Specification

Inventory Management System

Version 1.0
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Introduction :

The major functionality of this product is divided into two categories :

1. Administrative User Functions
2. Normal User Functions

The functionalities are further divided into 5 modules :

1. User Module
2. Sales Module
3. Purchase Module
4. Inventory Module
5. Configuration Module

User Module :

1.1 Manage User Account

1.1.1 Login User

Input :

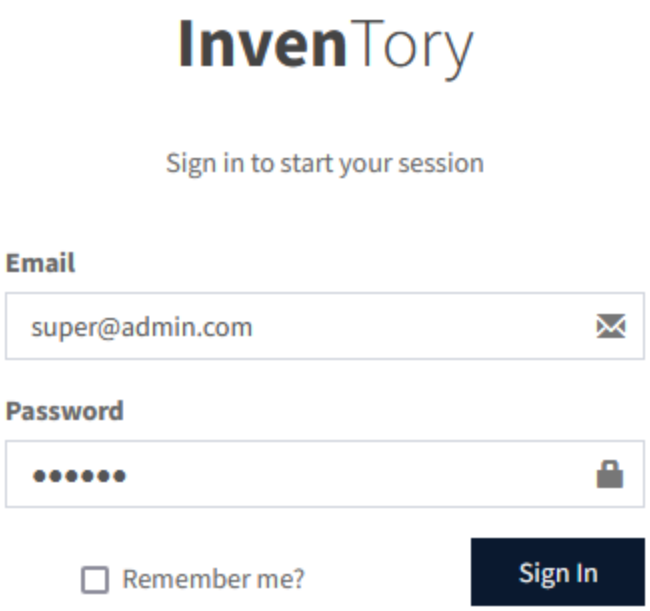
Email : Text/String (validated as an email format)

User's email address to identify and allow access to the system

Password : Text/String

User's password to authenticate the user.

Output : Redirected to the user dashboard on successful login
Exception : Invalid Credentials pops the alert message.



1.1.2 Register User

Inputs :

Email : Text/String (validated as an email format)

User's email address to identify and allow access to the system

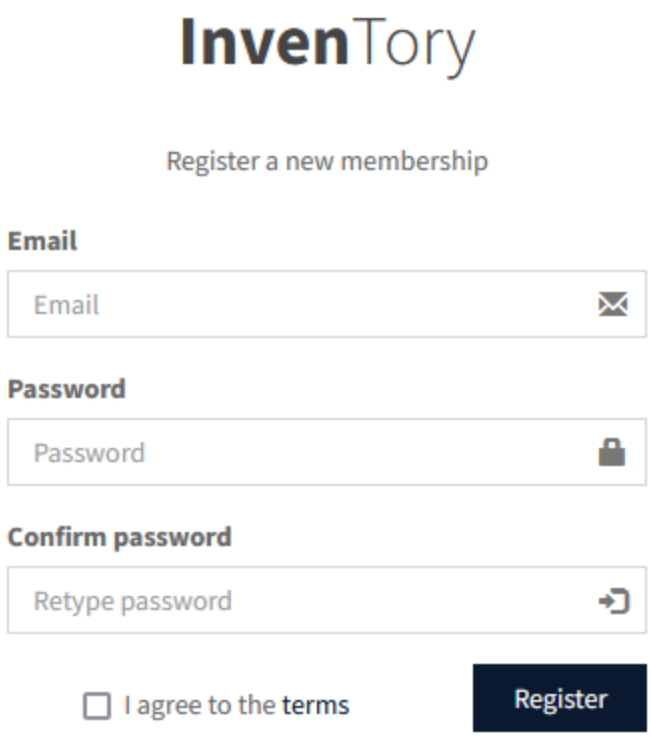
Password : Text/String

User's password to authenticate the user.

Confirm Password : Text/String

Re-enter user's password

Output : Confirmation on successful user creation
Exception : If a user already exists, it will redirect to the login screen



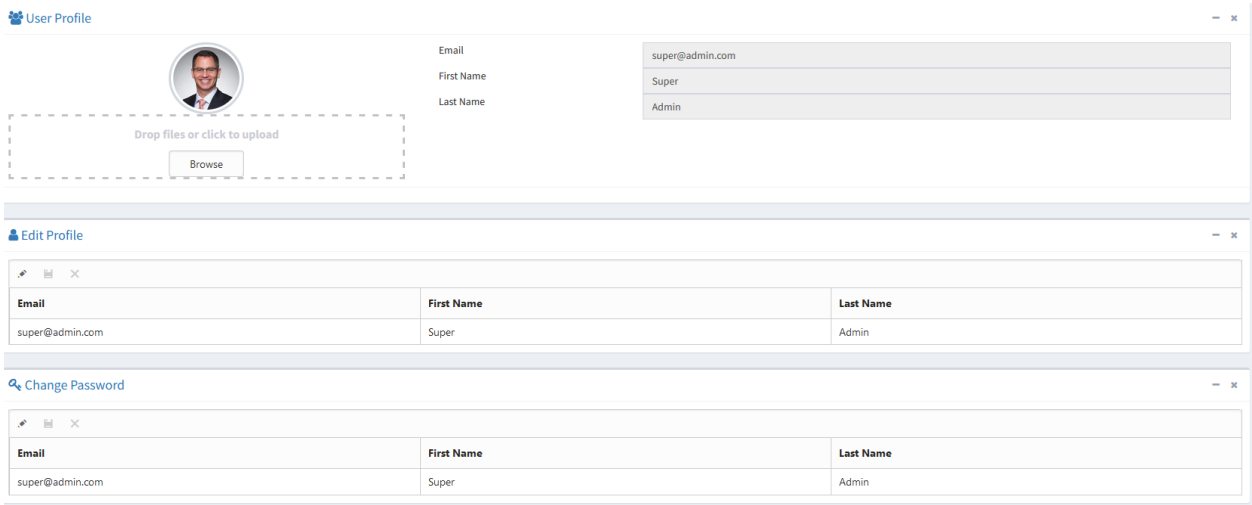
1.1.3 Logout User

Input : User Clicks the sign out button.
Output : redirected to login Page

1.2 Manage User Profile

1.2.1 View Profile

Description : User can view his profile including email, first name, last name etc.
Input : User Clicks the view profile button.
Output : User details



1.2.2 Add/Update profile details

Description : User can add his profile details such as profile photo, email etc.

Inputs :

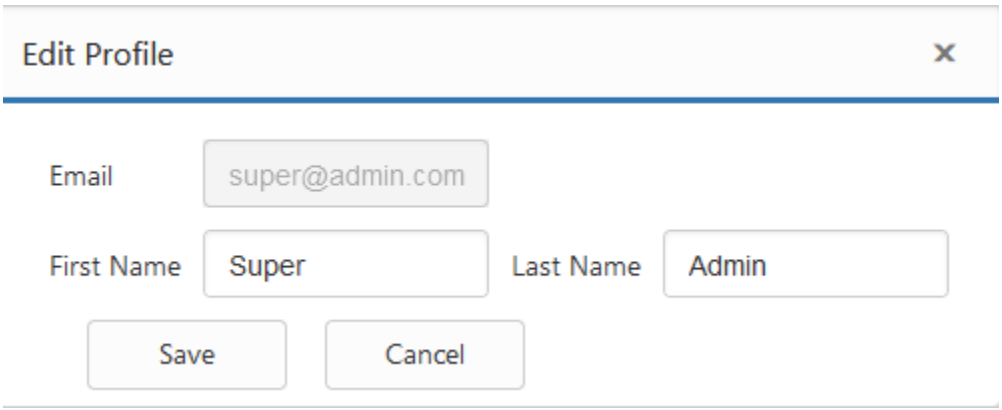
First Name : Text/String

User Enters his first name to change.

Last Name : Text/String

User Enters his last name to change.

Output : Confirmation message on successful addition



Inputs :

Old Password : Text/String

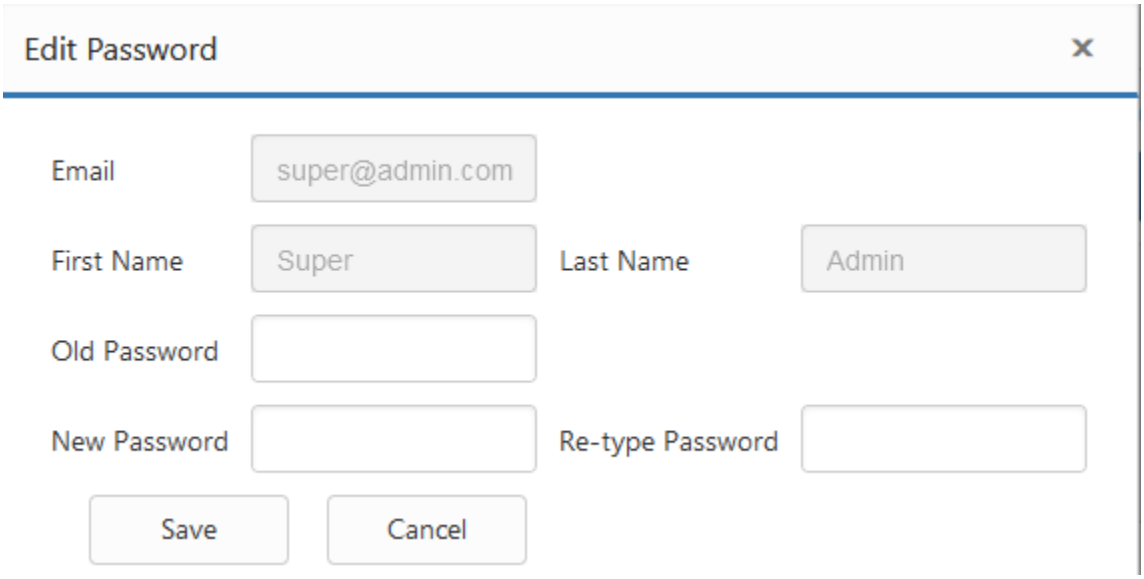
User enters his old password

New Password : Text/String

User enters his new password

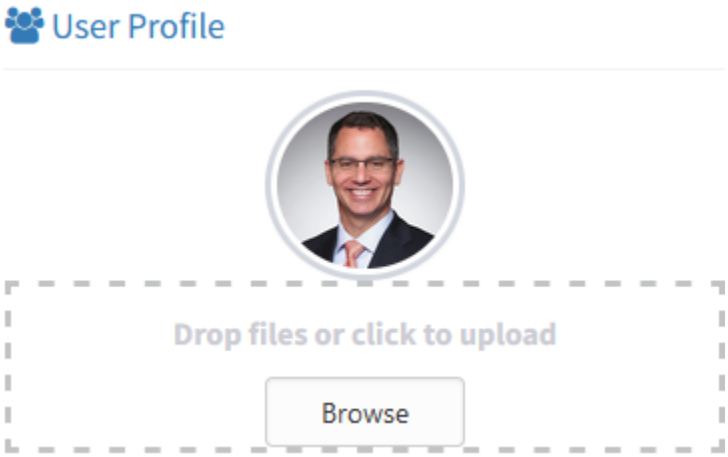
Re-type Password : Text/String

User enters his new password again to confirm.



Input :

Image File Upload : .jpg, .jpeg, png formatted files, with a maximum file size of 5mb.



1.2.3 Search any specific user

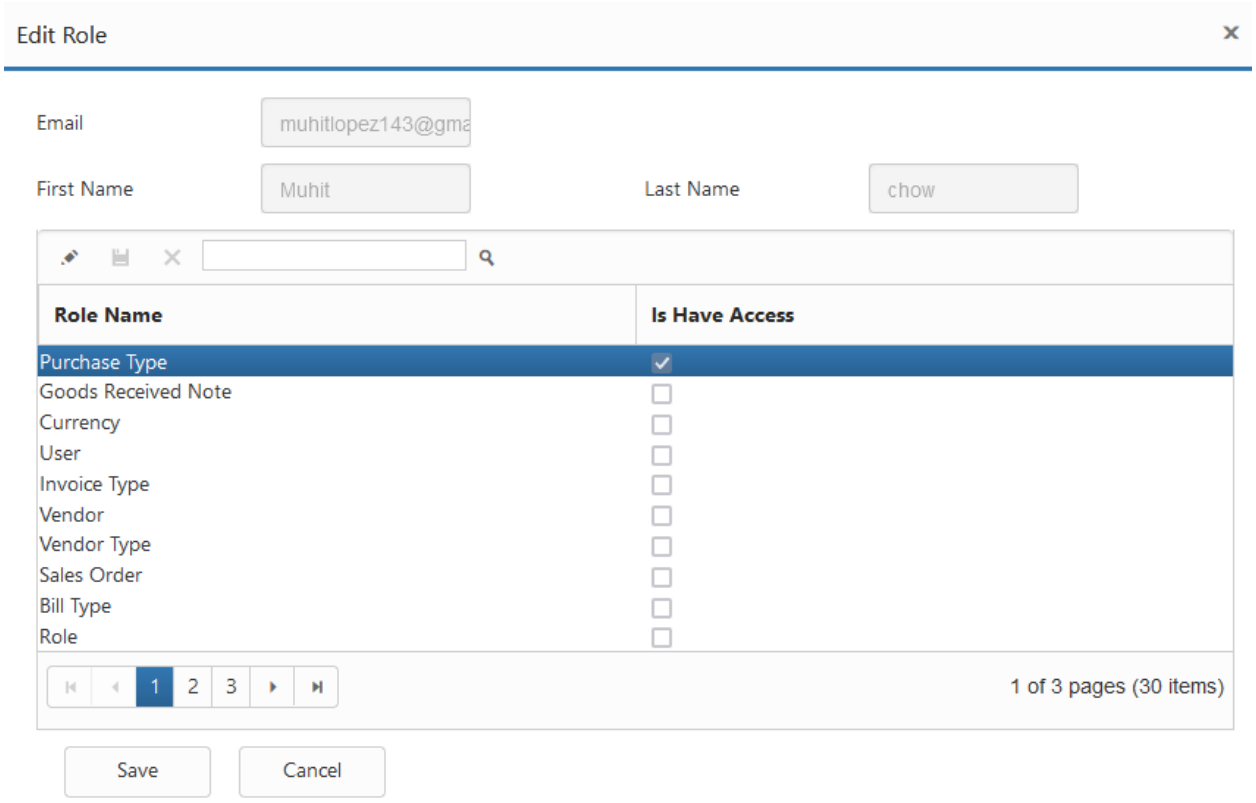
Input : username to be searched

Output : user details is displayed if the user exists in the record

Exception : appropriate message is displayed to the user in case the user is not present with the given keyword.

1.2.4 Change the user role in the system

Description : Admin can change the user role of different users
Input : User selects a role to be assigned to the selected user.
Output : Confirmation message



Sales Module :

2.1 Manage Customer Details :

2.1.1 Insert customer type

Input : customer type name and other details

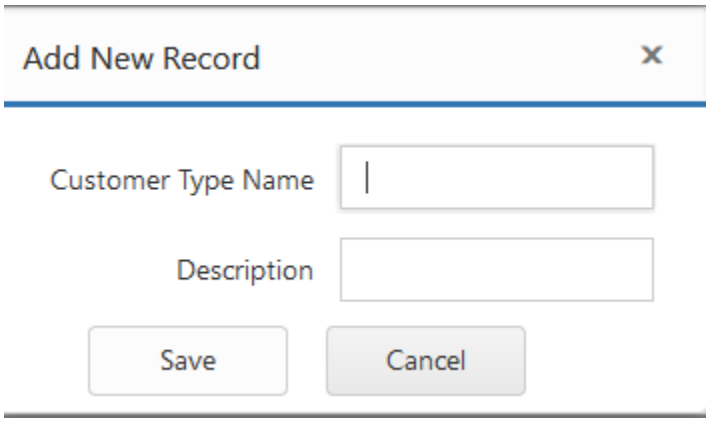
Customer Type Name :

Type : Text/String
Purpose : To provide name for a new customer type

Description :

Type : Text/String
Purpose : To provide description for a new customer type.

Output : customer type added successfully to the list



2.1.2 Update customer type

Input : customer type name and details
Output : Confirmation message

2.1.3 Soft Delete customer type

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

2.1.4 Add New customer

Input :

Customer Name :

Type : Text/String
Purpose : enter the name of the Customer

Customer Type :

Type : dropdown
Purpose : select the Customer type from the list

Address :

Type : string
Purpose : enter the address of the Customer

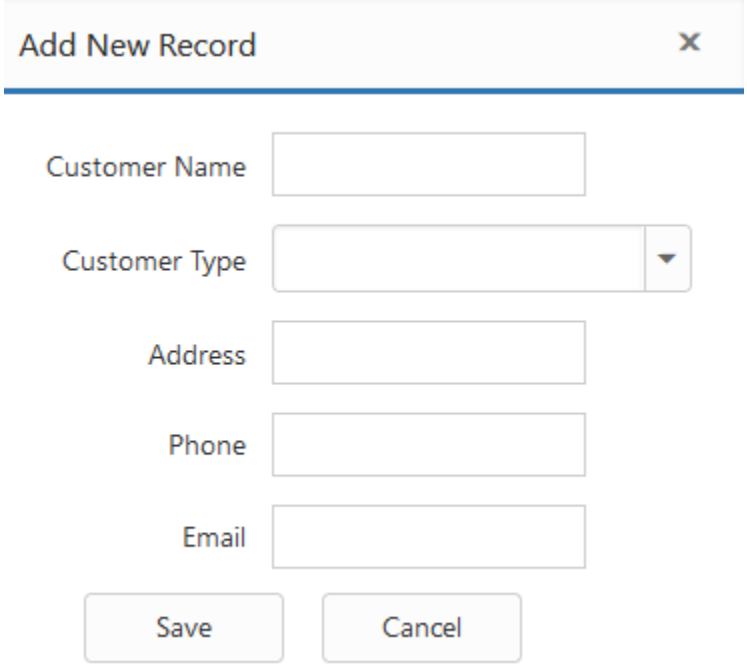
Phone :

Type : string
Purpose : enter the phone number of the Customer

Email :

Type : string
Purpose : enter the email address of the Customer

Output : Confirmation message displaying the customer has been added successfully.



2.1.5 Update/Edit customer details

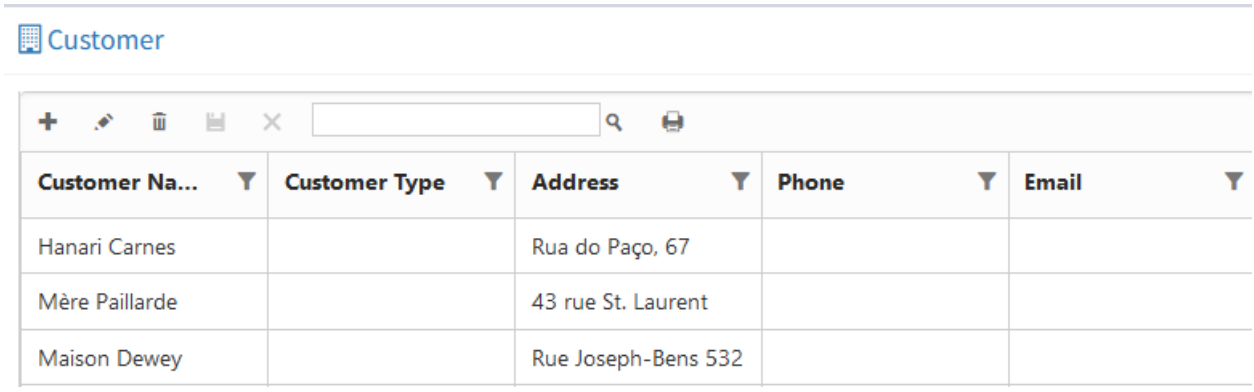
Input : customer details
Output : Confirmation on the successful updating

2.1.6 Soft Delete customer

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

2.1.7 Search any specific customer

Input : customer to be searched
Output : customer details is displayed if the customer exists in the record
Exception : appropriate message is displayed to the user incase of customer is not present with the given keyword



2.1.8 Print the records

Input : user selection
Output : system generates the list of records in the pdf format

2.2 Manage Sales details

2.2.1 Add Sales Order

Input :

Select Customer :

Type : dropdown
Purpose : to select a customer from the dropdown list.

Order Date :

Type : date
Purpose : to select an order creation date.

Select Product Category :

Type : dropdown
Purpose : to select a product category from the list

Select Product :

Type : dropdown
Purpose : to select a product from the list

Quantity :

Type : number
Purpose : to enter the required amount of the product

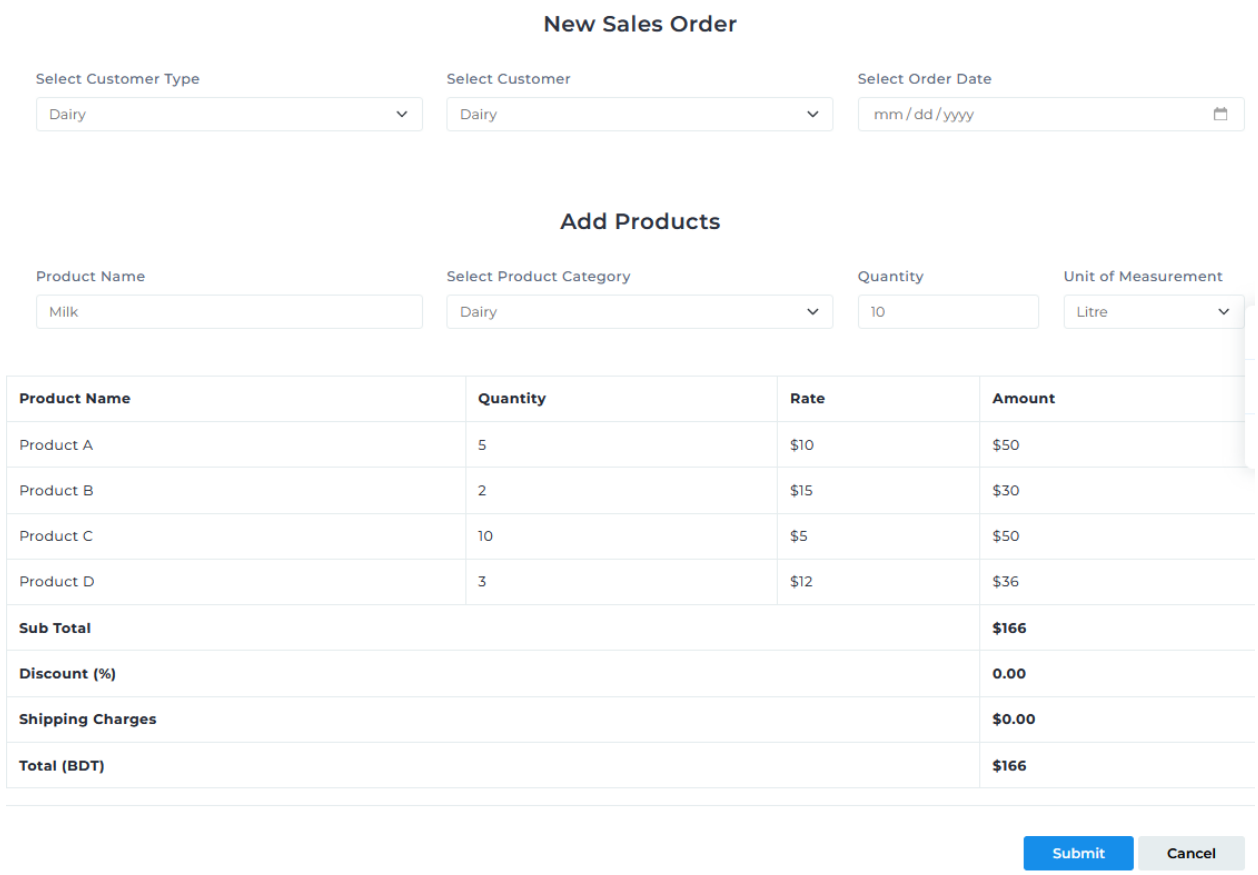
Unit of Measurement :

Type : dropdown
Purpose : it is pre-selected based on the product.

Add Product Button

Type : button
Purpose : to add multiple products in the list.

Output : Confirmation message displaying the sales has been added Successfully.



2.2.2 Update/Edit Sales Order

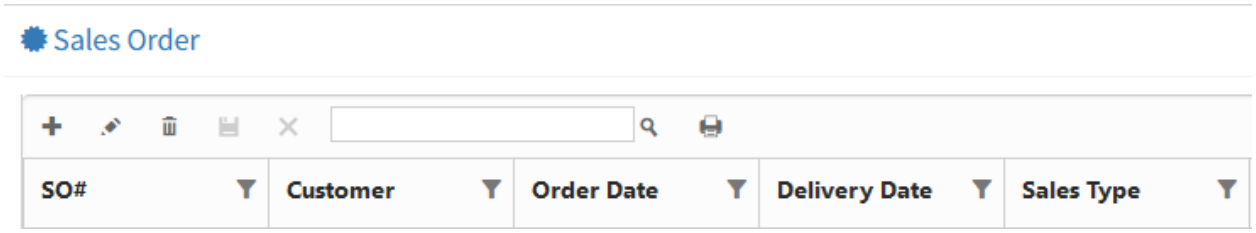
Input : sales details
Output : Confirmation on the successful updating

2.2.3 Archive Sales Order record

Input : user selects the archive button
Output : Confirmation on successful archivation of the record.

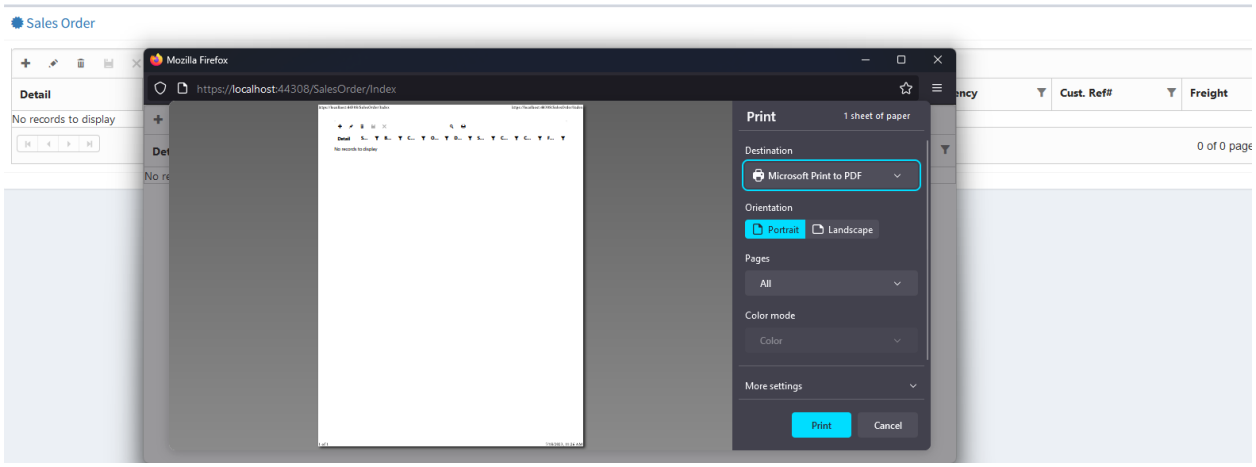
2.2.4 Search any specific Sales Order Record

Input : sales record to be searched
Output : sales record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword



2.2.5 Print the records

Input : user selection
Output : system generates the list of records in the pdf format



2.3 Manage Shipment Details

2.3.1 Add shipment details

Input :

Sales order :

Type : dropdown
Purpose : to select a sales order from the dropdown list

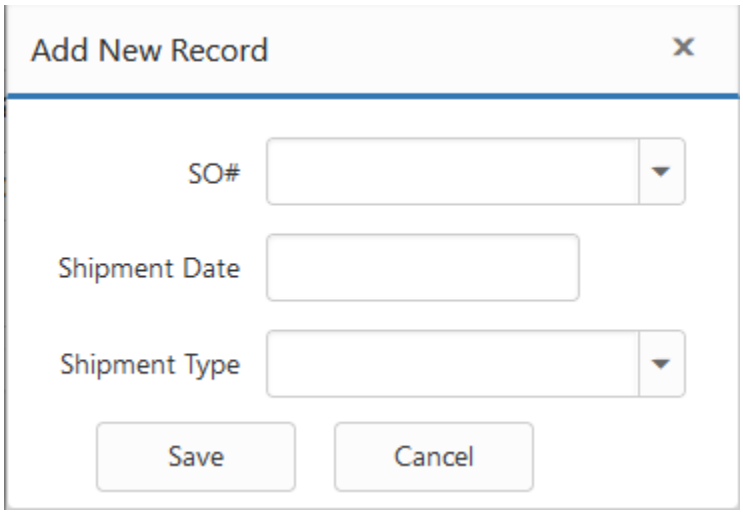
Shipment Date :

Type : date
Purpose : select a shipment date from the calendar.

Shipment Type :

Type : dropdown
Purpose : select a shipment type from the dropdown list.

Output : Confirmation message displaying the shipment has been added successfully



2.3.2 Update/Edit shipment details

Input : shipment details
Output : Confirmation on the successful updating

2.3.3 Archive Shipment record

Input : user selects the archive button
Output : Confirmation on successful archivation of the record.

2.3.4 Search any specific shipment record

Input : shipment record to be searched
Output : shipment record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword

2.3.5 Print the records

Input : user selection
Output : system generates the list of records in the pdf format

2.4 Manage Invoice Details

2.4.1 Add Invoice details

Input :

Sales order :

Type : dropdown
Purpose : to select a sales order from the dropdown list

Invoice Date :

Type : date
Purpose : to select an invoice creation date.

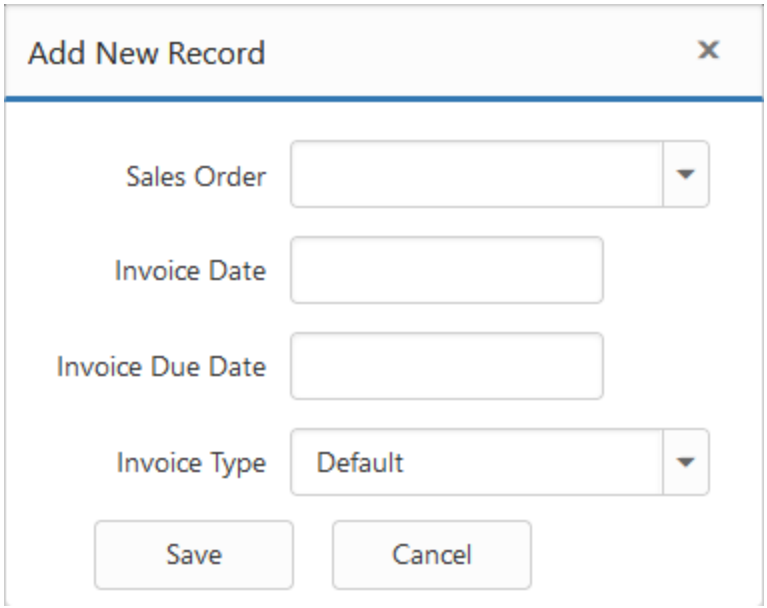
Invoice Due Date :

Type: date
Purpose : to select a due date for the invoice

Invoice Type :

Type : dropdown
Purpose : to select an invoice type from the invoice type list.

Output : Confirmation message displaying the Invoice has been added Successfully



2.4.2 Update/Edit Invoice details

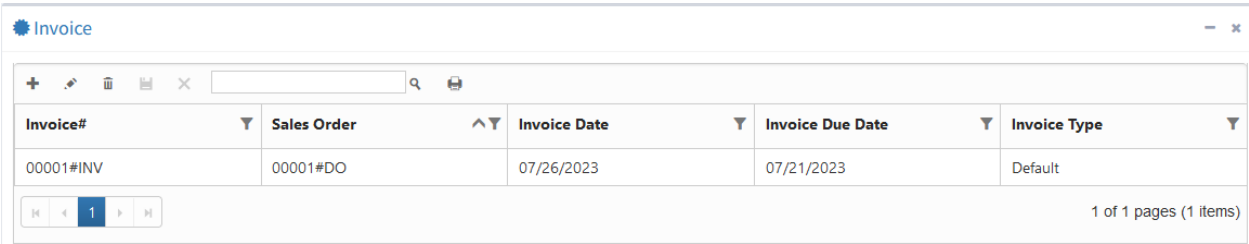
Input : Invoice details
Output : Confirmation on the successful updating

2.4.3 Archive Invoice record

Input : user selects the archive button
Output : Confirmation on successful archivation of the record.

2.4.4 Search any specific invoice record

Input : invoice record to be searched
Output : invoice record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword



2.4.5 Print the records

Input : user selection
Output : system generates the list of records in the pdf format.

2.5 Manage Payment Received Details

2.5.1 Add Payment Received details

Input :

Full Payment :

Type : CheckBox (Boolean) (true/false)

Purpose : To capture user preference of whether or not the payment is full.

Invoice :

Type : dropdown

Purpose : To select an existing invoice from the invoice list.

Payment Date :

Type : date

Purpose : To select a payment date

Payment Type :

Type : dropdown

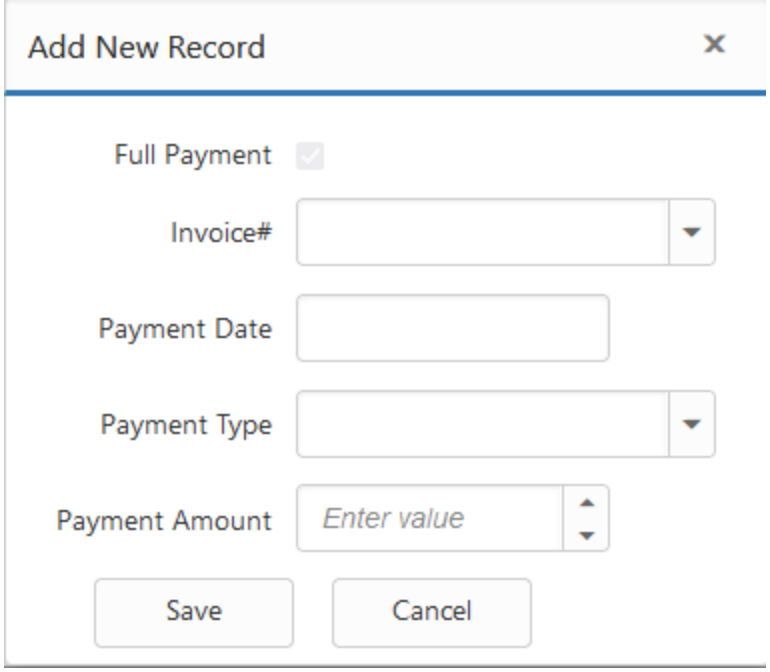
Purpose : To select a payment type from the dropdown list.

Payment Amount :

Type : number

Purpose : the amount of payment to be made.

Output : Confirmation message displaying the Payment has been added Successfully



2.5.2 Update/Edit Payment Received details

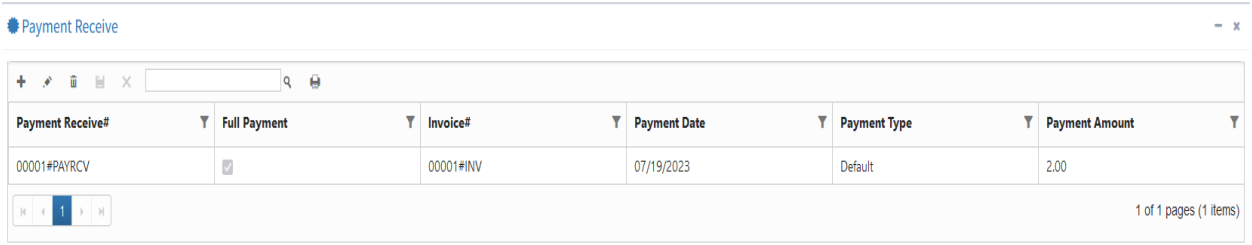
Input : Payment received details
Output : Confirmation on the successful updating

2.5.3 Archive Payment Received record

Input : user selects the archive button
Output : Confirmation on successful archivation of the record.

2.5.4 Search any specific payment received record

Input : payment record to be searched
Output : payment record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword



2.5.5 Print the records

Input : user selection
Output : system generates the list of records in the pdf format
Purchase Module:

Purchase Module

3.1 Manage Vendor details

3.1.1 Insert vendor type

Input :

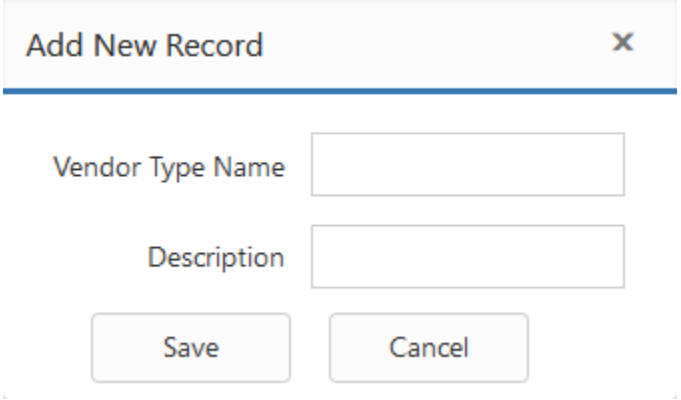
Vendor Type Name:

Type: Text/String
Purpose: To provide a name for a new vendor type.

Vendor Type Description:

Type: Text/String
Purpose: To provide a description for a new vendor type.

Output : vendor type added successfully to the list



3.1.2 Update vendor type

Input : vendor type name and details
Output : Confirmation message

3.1.3 Soft Delete vendor type

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

3.1.4 Add New vendor

Input :

Vendor Name :

Type : Text/String
Purpose : enter the name of the vendor

Vendor Type :

Type : dropdown
Purpose : select the vendor type from the list

Address :

Type : string
Purpose : enter the address of the vendor

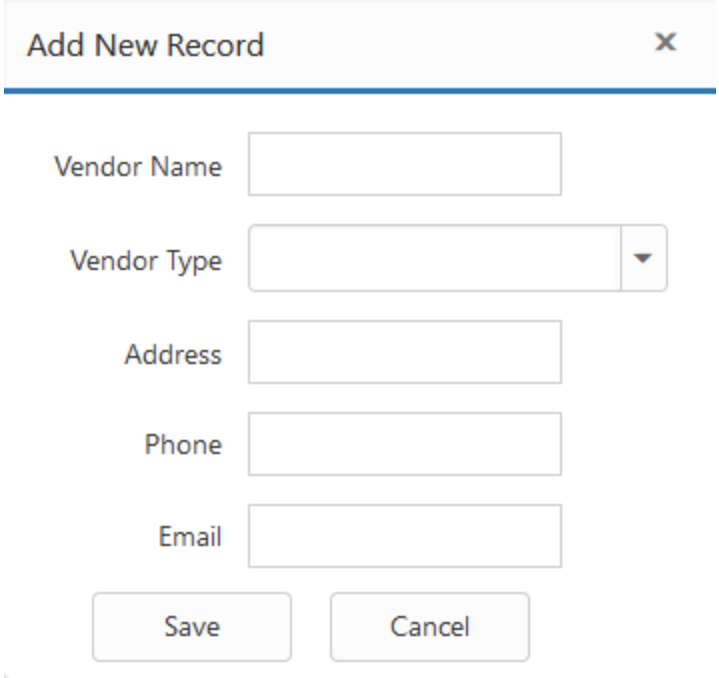
Phone :

Type : string
Purpose : enter the phone number of the vendor

Email :

Type : string
Purpose : enter the email address of the vendor

Output : Confirmation message displaying the vendor has been added Successfully



3.1.5 Update/Edit vendor details

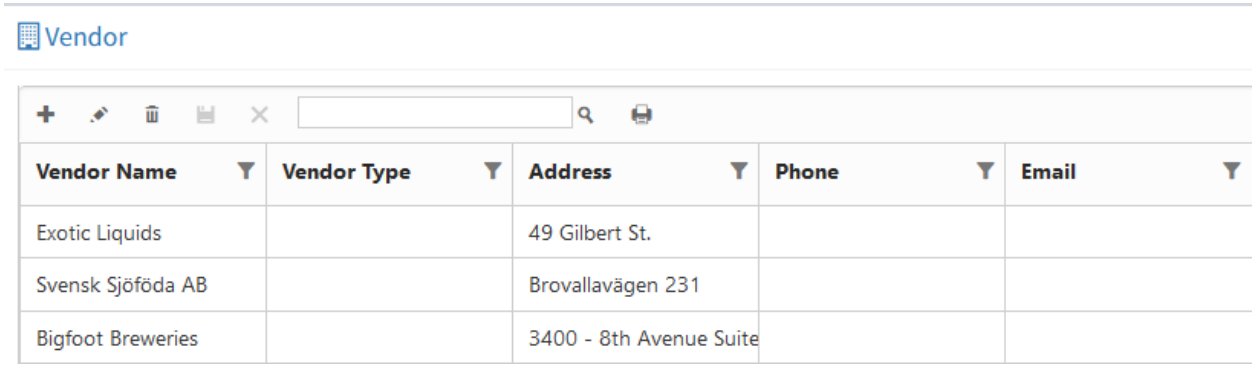
Input : vendor details
Output : Confirmation on the successful updating

3.1.6 Soft Delete vendor

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

3.1.7 Search any specific vendor record

Input : vendor record to be searched
Output : vendor record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword



3.1.8 Print the records

Input : user selection
Output : system generates the list of records in the pdf format

3.2 Manage purchase details

3.2.1 Add Purchase Order

Input :

Select Vendor:

Type : dropdown
Purpose : to select a vendor from the dropdown list.

Order Date :

Type : date
Purpose : to select an order creation date.

Select Product Category :

Type : dropdown
Purpose : to select a product category from the list

Select Product :

Type : dropdown
Purpose : to select a product from the list

Quantity :

Type : number
Purpose : to enter the required amount of the product

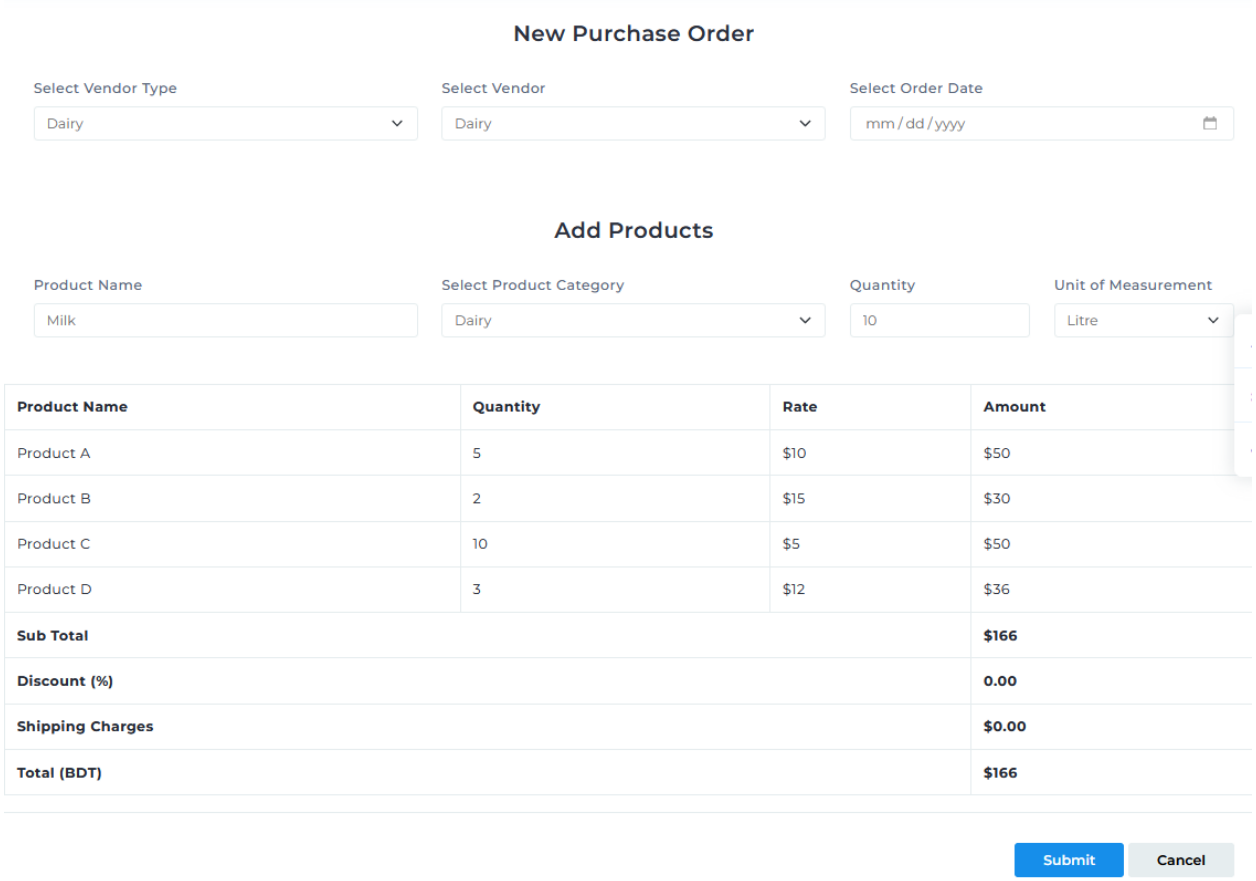
Unit of Measurement :

Type : dropdown
Purpose : it is pre-selected based on the product.

Add Product Button

Type : button
Purpose : to add multiple products in the list.

Output : Confirmation message displaying the purchase has been added successfully.



3.2.2 Update/Edit Purchase Order

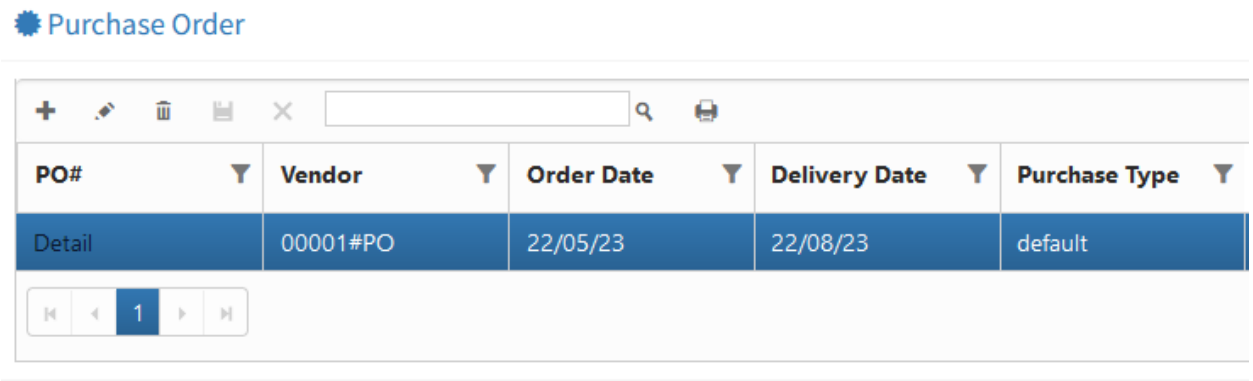
Input : purchase details
Output : Confirmation on the successful updating

3.2.3 Archive Purchase Order record

Input : user selects the archive button
Output : Confirmation on successful archivation of the record.

3.2.4 Search any specific purchase order record

Input : purchase record to be searched
Output : purchase record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword



3.2.5 Print the records

Input : user selection
Output : system generates the list of records in the pdf format

3.3 Manage Bill details

3.3.1 Add Bill details

Input :

Purchase Order :

Type : dropdown
Purpose : to select a purchase order from the dropdown list.

Bill Date :

Type : date
Purpose : to select a Bill creation date.

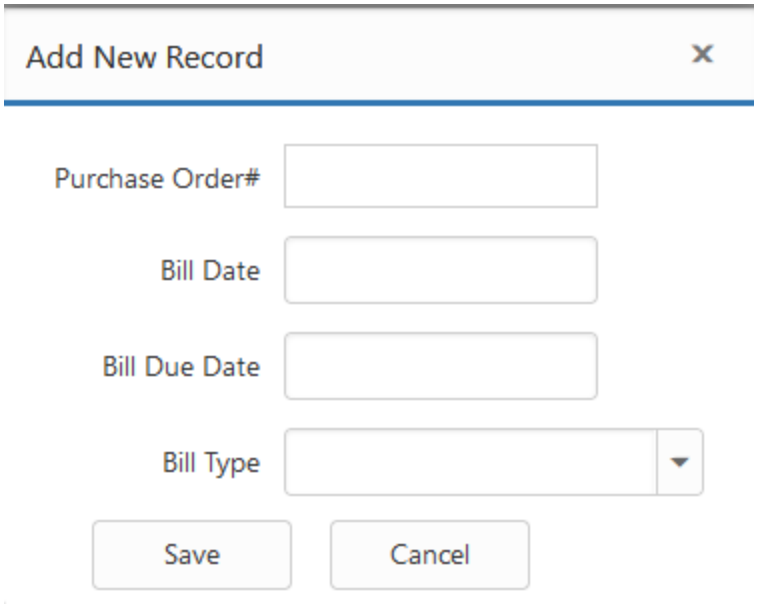
Bill Due Date :

Type: date
Purpose : to select a due date for the Bill

Bill Type :

Type : dropdown
Purpose : to select a Bill type from the Bill type list.

Output : Confirmation message displaying the Bill has been added Successfully



3.3.2 Update/Edit Bill details

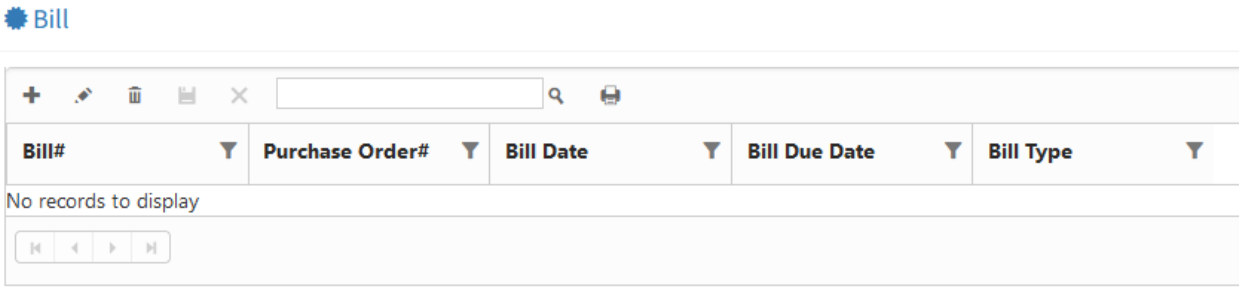
Input : Bill details
Output : Confirmation on the successful updating

3.3.3 Archive Bill record

Input : user selects the archive button
Output : Confirmation on successful archivation of the record.

3.3.4 Search any specific bill record

Input : bill record to be searched
Output : bill record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword



3.3.5 Print the records

Input : user selection
Output : system generates the list of records in the pdf format

3.4 Manage Payment voucher details

3.4.1 Add Payment voucher details

Input :

Full Payment :

Type : CheckBox (Boolean) (true/false)
Purpose : To capture user preference of whether or not the payment is full.

Invoice :

Type : dropdown
Purpose : To select an existing invoice from the invoice list.

Payment Date :

Type : date
Purpose : To select a payment date

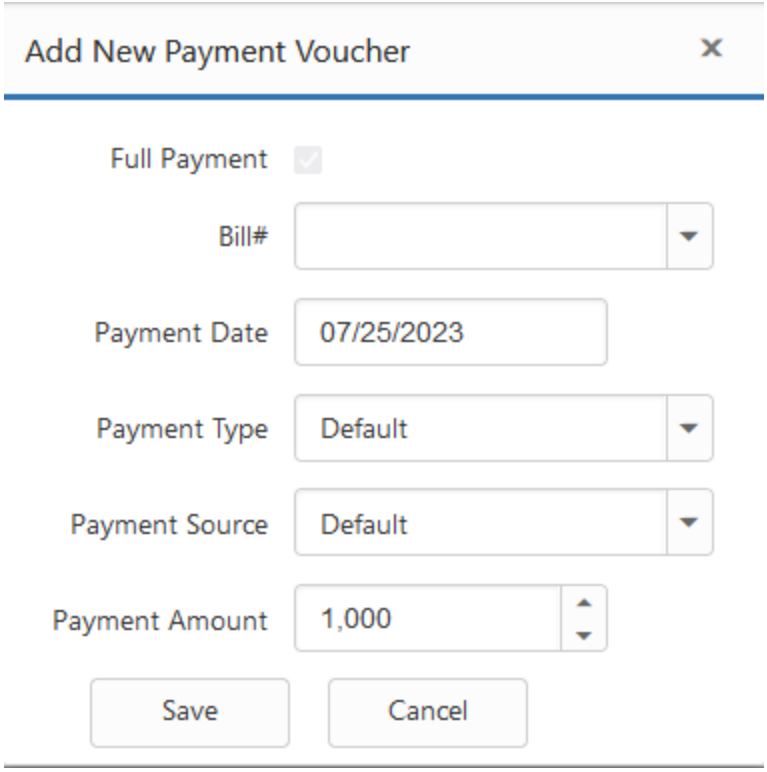
Payment Type :

Type : dropdown
Purpose : To select a payment type from the dropdown list.

Payment Amount :

Type : number
Purpose : the amount of payment to be made.

Output : Confirmation message displaying the Payment voucher has been added successfully



3.4.2 Update/Edit Payment voucher details

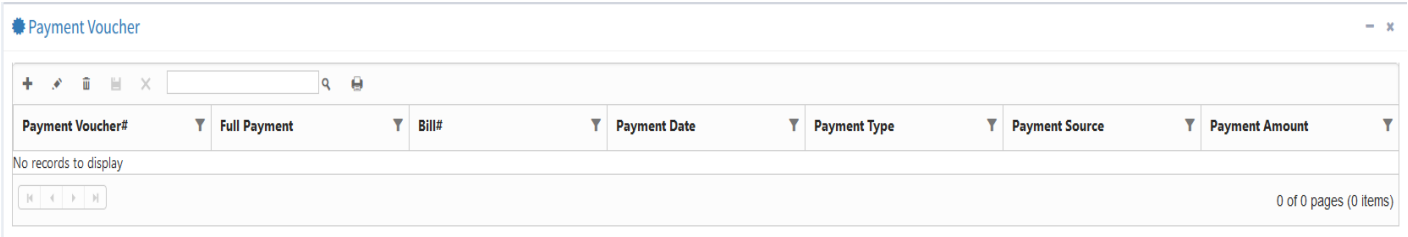
Input : Payment voucher details
Output : Confirmation on the successful updating

3.4.3 Archive Payment Voucher record

Input : user selects the archive button
Output : Confirmation on successful archivation of the record.

3.4.4 Search any specific payment voucher record

Input : payment voucher record to be searched
Output : payment voucher record details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword.



3.4.5 Print the records

Input : user selection
Output : system generates the list of records in the pdf format
Inventory Module.

Inventory Module

4.1 Manage Product details

4.1.1 Insert Product category

Input :

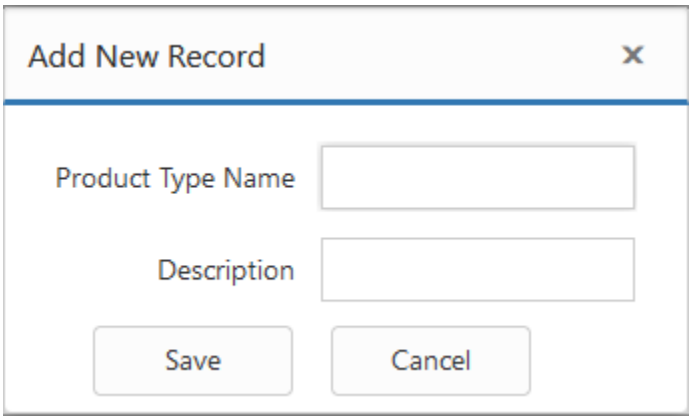
Product Category Name:

Type: Text/String
Purpose: To provide a name for a new product category.

Product Category Description:

Type: Text/String
Purpose: To provide a description for a new product category.

Output : Product category added successfully to the list



4.1.2 Update Product category

Input : Product category name and details
Output : Confirmation message

4.1.3 Soft Delete Product category

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

4.1.4 Add Product details

Input :

Product Name :

Type : Text/String
Purpose : User enters the name of the product.

Select Product Category :

Type : dropdown
Purpose : User selects a product category from the dropdown list.

Purchase price :

Type : number
Purpose : User enters the purchase price of the product.

Selling Price :

Type : number
Purpose : User enters the selling price of the product

Unit of Measurement :

Type : dropdown
Purpose : User selects the unit of measurement from the list.

SKU :

Type : number
Purpose : User enters the sku(store keeping unit) of the product.

Manufacturing Date

Type : date
Purpose : User enters the manufacturing date of the product

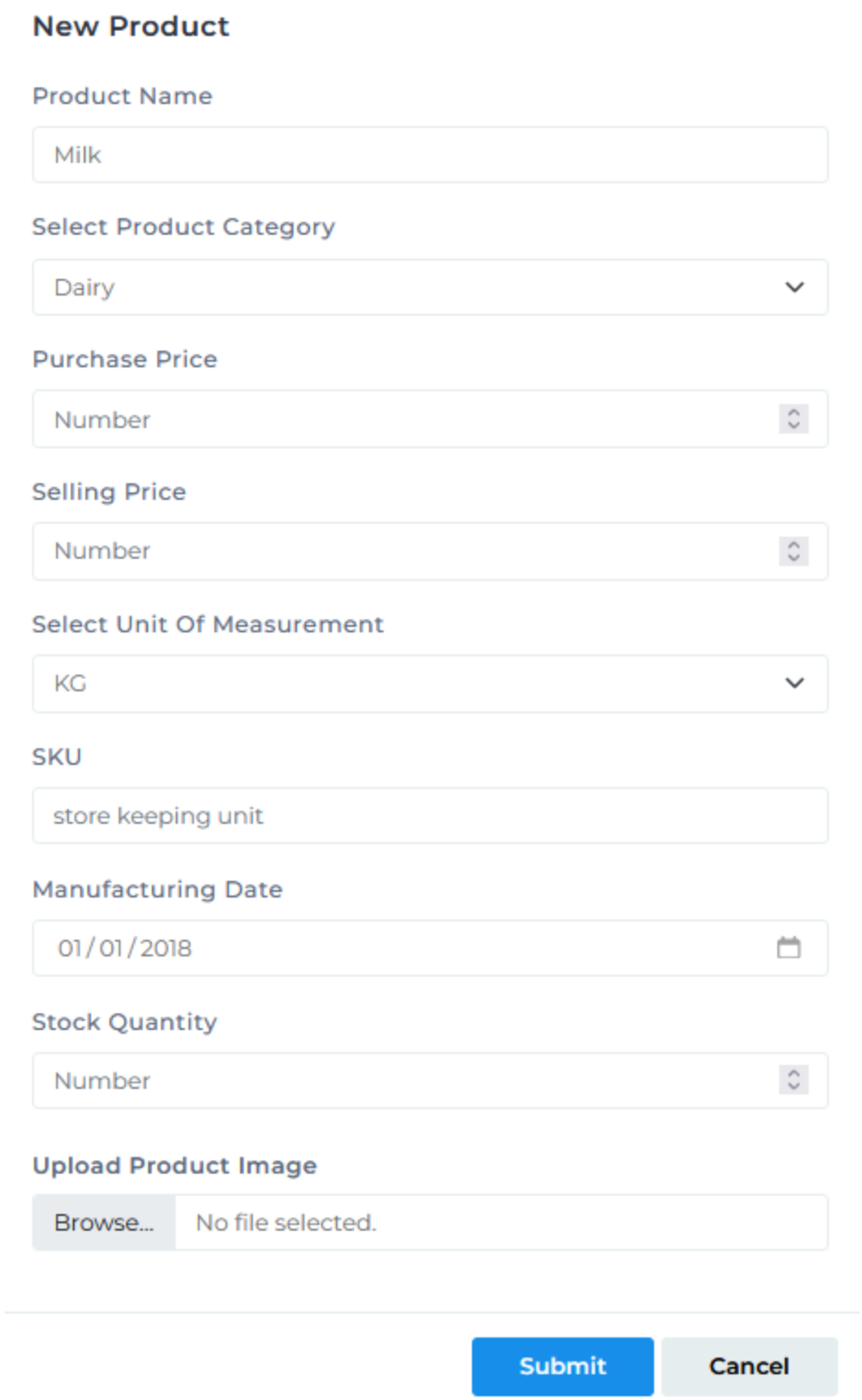
Stock Quantity

Type : number
Purpose : User enters the initial stock in hand of the product.

Upload Product Image

Type : File (jpeg, jpg, png)
Purpose : User uploads an image of the product.

Output : Confirmation message displaying the Product has been added successfully.



4.1.5 Update/Edit Product details

Input : Product details

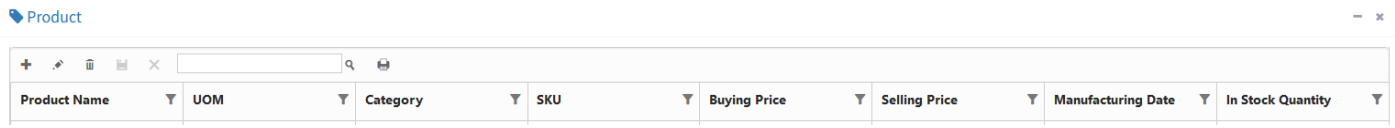
Output : Confirmation on the successful updating.

4.1.6 Soft Delete Product

Input : user clicks the delete button
Output : sets the status of the entity to 404.

4.1.7 Search any specific product record

Input : product record to be searched
Output : product details is displayed if the record exists
Exception : apt message is displayed to the user incase of record is not present with the given keyword



4.1.8 Print the records

Input : user selection
Output : system generates the list of records in the pdf format

Configuration Module

5.1 Manage Cash Bank/Payment Source

5.1.1 Add Cash Bank/Payment Source

Input :

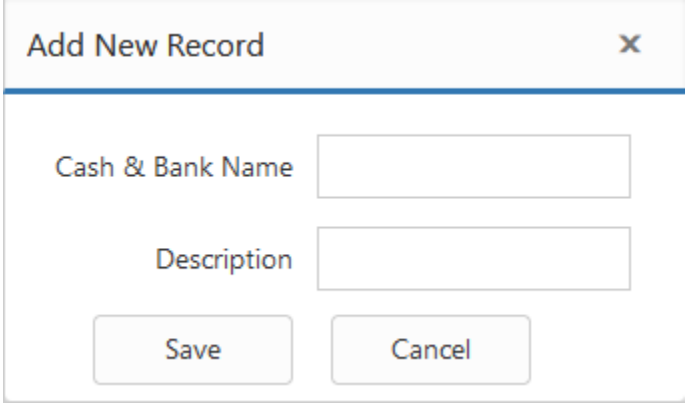
Cash/Bank Name:

Type: Text/String
Purpose: To provide a name for a cash or bank account type.

Cash/Bank Description:

Type: Text/String
Purpose: To provide a description for a cash or bank account type.

Output : Currency Added successfully to the list.



5.1.2 Update/Edit CashBank/Payment Source

Input : Updated cash bank/payment information.
Output : Confirmation message.

5.1.3 Soft Delete CashBank/Payment Source

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

5.2 Manage Unit Of Measurement

5.2.1 Add Unit Of Measurement

Input :

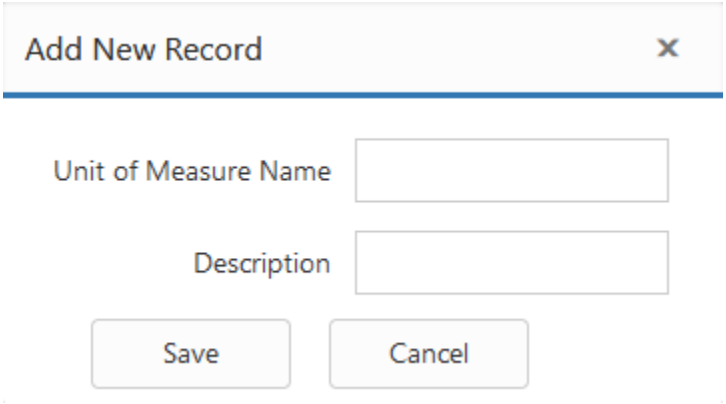
Unit of Measurement Name:

Type: Text/String
Purpose: To provide a name for a new unit of measurement.

Unit of Measurement Description:

Type: Text/String
Purpose: To provide a description for a new unit of measurement.

Output : Currency Added successfully to the list.



5.2.2 Update/Edit Unit Of Measurement

Input : Updated unit of measurement information.
Output : Confirmation message.

5.2.3 Soft Delete Unit Of Measurement

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

5.3 Manage Payment Type

5.3.1 Add Payment Type

Input :

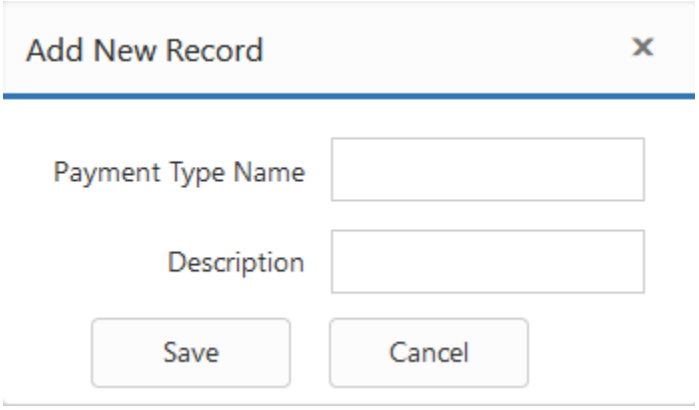
Payment Type Name:

Type: Text/String
Purpose: To provide a name for a new payment type.

Payment Type Description:

Type: Text/String
Purpose: To provide a description for a new payment type.

Output : Currency Added successfully to the list.



5.3.2 Update/Edit Payment Type

Input : Updated payment type information.
Output : Confirmation message.

5.3.3 Soft Delete Payment Type

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

5.4 Manage Invoice Type

5.4.1 Add Invoice Type

Input :

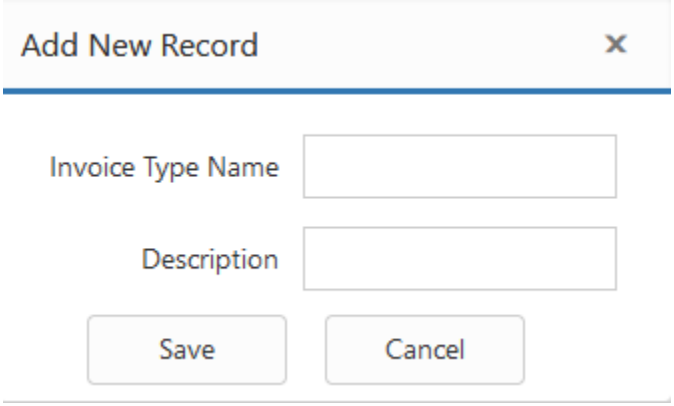
Invoice Type Name :

Type: Text/String
Purpose: To provide a name for a new invoice type.

Invoice Type Description :

Type: Text/String
Purpose: To provide a description for a new invoice type.

Output : Currency Added successfully to the list.



5.4.2 Update/Edit Invoice Type

Input : Updated invoice type information.
Output : Confirmation message.

5.4.3 Soft Delete Invoice Type

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

5.5 Manage ShipmentType

5.5.1 Add Shipment Type

Input :

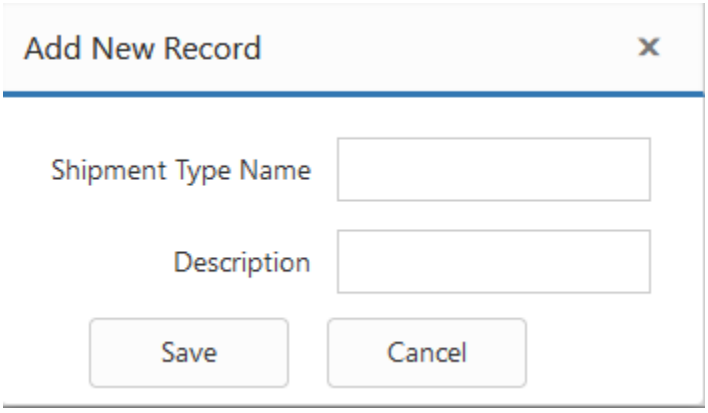
Shipment Type Name:

Type: Text/String
Purpose: To provide a name for a new shipment type.

Shipment Type Description:

Type: Text/String
Purpose: To provide a description for a new shipment type.

Output : Currency Added successfully to the list.



5.5.2 Update/Edit Shipment Type

Input : Updated shipment type information.
Output : Confirmation message.

5.5.3 Soft Delete Shipment Type

Input : user clicks the delete button.
Output : sets the status of the entity to 404.

5.6 Manage BillType

5.6.1 Add Bill Type

Input :

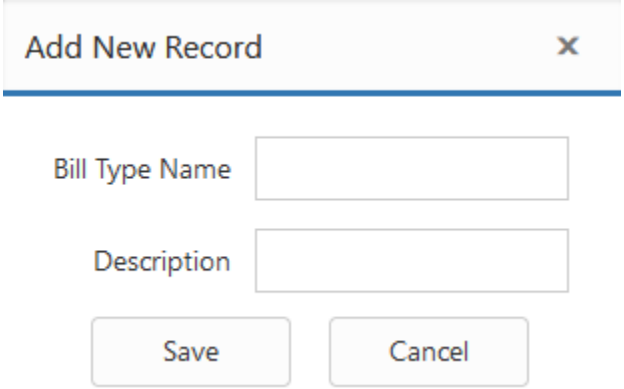
Bill Type Name:

Type: Text/String
Purpose: To provide a name for a new bill type.

Bill Type Description:

Type: Text/String
Purpose: To provide a description for a new bill type.

Output : Currency Added successfully to the list.



5.6.2 Update/Edit Bill Type

Input : Updated bill type information.
Output : Confirmation message.

5.6.3 Soft Delete Bill Type

Input : user clicks the delete button.
Output : sets the status of the entity to 404.