SRS For Cust Tail 1.0.0

1. Preparation of SRS

a. Need of software

Our Main Motive of developing this software is to provide a dedicated customer management system for tailored and clothing shop.
Most of the tailored use traditional method of maintain bill is that they record sales in book. Major disadvantage of this approach is that they face issue of maintaining record of customer such as their order, delivery date, measurements, and over sales record in the end of financial year.
Also maintain record of required lots of manual work such as maintain book, finding record in book, also if customer is regular still the have to take measurements every time. They have to check their book to known which product have to deliver.
So, or aim is to develop such software which can make these task easy for everyone. Our software should be able to add customer , placed order, provide record and maintain reports such as sales, pending and completed order etc.

b. Functional requirement

CusTail is designed for customers Management purposes so its primary function will be :

i. **Add customers / Place Order**

One of the basic concepts of any CMS is to provide a simple and easy interface to add customer and placed their order.
Our CMS will maintain record of customer and their order in database through easy and simple GUI based interface.
It will include all basic requirements need required while placing order.

ii. **Payment interface**

1. There should be an interface for payment and closing order of customer once it get completed.
2. Payment interface will use while delivering order to customer, a customer phone number will be required and pending payment will be shown.
3. User can select order and close the order that mean order is given to customer and payment is completed.
4. There will interface for all customers whose payment is pending.

iii. **Update Order Status**

1. Once order is placed there will different stage such as pending, cutting, swing, finishing, completed and deliver.
2. To know the exact status of any order there will be an interface required from where using customer number or order id order status can be update and see.

iv. **Find Customer and order face interface**

1. A dedicated interface for customer profile where all their data can be accessed such as total order, pending order, pending amount etc.

v. **Database for managing Overall data**

1. A database to manage these all data using MySQL.

vi. **Login Interface**

1. A login interface from where admin can login in to access all function of software. There will be setup protocol to set password and username also to reset.

vii. **Dashboard**

1. A graphical dashboard to represent data such as total customer, pending order, completed order but not hand over to customer, Product which is supposed to handover today to a customer.

c. Nonfunctional requirements

i. Simple GUI

1. Simple and interactive GUI for every function.

2. Report and basic setting.

2. Technology Study

a. Java : Java is a high-level programming language it is object oriented. We will use java to develop such software using Java swing and JDBC libraires.

b. MYSQL: MYSQL is structured query language which is use to design and manipulate Relational Database. MYSQL will use to perform all operation regarding database.

3. User

a. Currently or focus is on single user-based software where there will be on admin who supposed to use this software.

4. Requirement

a. Our software is a basic Customer Management System which can be run on system with 4Gb and basic processor.

5. Data

a. Customer

i. It will require data of customer such as contact number and Name, measurements.

ii. Every customer will have unique customer id which will generated by system.

b. Order

i. Every order will have unique order id which will be associated with customer id.

ii. Order will have orders quantity, total value of order, order date.

iii. Order will be the set of products where each product belong to services offer by admin.

c. Product

i. In our case product will be actual service such as it can be shirt, trouser, Pant, coat, saree, dress etc. offered by admin.

ii. Product will have unique product id which will be associated with order and customer id it will have product type, cloth cost , swing cost, status (Pending By default), delivery data.

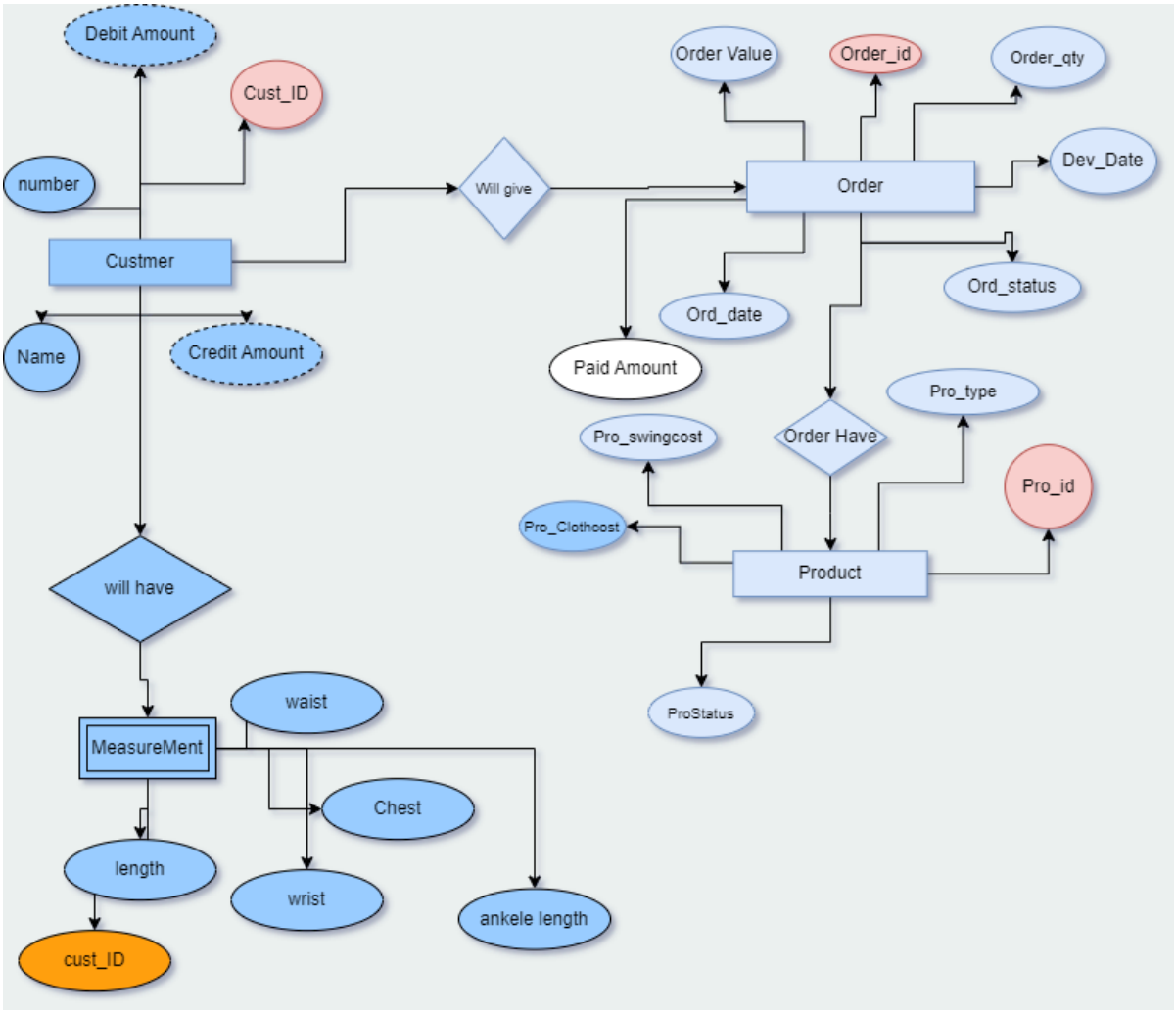
d. Utility

i. It will store user id password customer id order id etc.

Documents Design Specifications

6. **Preparation of Design**
7.

E-R diagram



Entity and Attribute
Customer

- **Name**
- **Number**
- **Debit amount**
- **Credit Amount**
- **Customer Id**

Order

- **Order ID Primary key**
- **Customer ID Foreign Key**
- **Order Qty Derived attribute from number of products.**
- **Order value derived sum of value of product**
- **Order Date**

Product

- **Product ID + Order ID Primary Key**
- **Customer ID + Product ID Attribute Key**
- **Product Type**
- **Swing Cost**
- **Cloth Cost**
- **Total Cost Derived attribute (Swing Cost+ cloth cost)**

Measurement

- **Customer Id Fk**
- **Measurement ID PK**
- **Name**
- **Attribute**

Utility

- **Password**
- **User Name**
- **Product**
- **Last Customer ID**
- **Last Order ID**
- **Last product ID**
- **INDEX**

a. Relational Table

Customer Table

Customer					
PK					
Cust_id	Cust_name	Cust_number	cust_criedtamt	cust_debit	
123	Ruddarm	8369517140	1300	4100	

Order Table

order							
PK	FK						
Order_ID	Cust_id	order_date	order_qty	order_value	order_paid_amt	order_status	order_Dev_date
OID11	123	22-10-2023	1	1700	900	pending	23-10-2023
1211	123	-	2	2400	400	pending	-

Product Table

Product							
PK	FK	FK					
Prduct_ID	Cust_ID	Order_ID	Product_Type	Cloth_cost	Swing_Cost	Product_status	Total cost
pid99	123	od11	shirt	800	900	pending	1700
pid100	123	OID112	shirt	900	500	pending	1400
pid101	123	OID112	trouser	500	500	pending	1000

Measurement Table

Measurement								
PK	PK							
Custis	Mid	Name	length	Waist	Chest	wrist	Armlength	Shoulder
123	M123	Ruddarm	10	10	12	12	12	12
11	M122	Ansh	12	344	13	12	23	12

Utility

Utility					
PK					
Index	Last_Cid	Last_oid	Last_pid	Password	User_name

b. Module Design

Module

Setup Module

- **Customer Data**
- **Frame.**
- **Database existences.**

Database Module

- **Database connectivity**
  - **Creation**
  - **Alter**

Database Operation

- **Insertion**
- **Delete**
- **Update**
- **Retrieve data**
- **Alter**

Login

- **Login Interface**

Main Screen

- **Add Order Interface**
  - **Use to create or place order**
- **Payment Button**
  - **Use for payment and close of order**
- **Find Order Button**
  - **Use to find order**
- **Update order Button**
  - **Use to update order**
- **Dash Board**
  - **To keep track of orders.**
- **Action Listener Main Screen Module**

Add Customer

- **Add Order Utility**
- **Add Customer Interface**
- **Add Order Interface**
- **Add Product Interface**
- **Place order Interface**
- **Check Customer Data**
- **Action Listener Add Customers Module**

Dashboard

- **Dashboard GUI**
- **Total Customer**
- **Total Order**
- **Total Product**
- **Action Listener**

Payment Interface

- **Payment Utility**
- **Payment GUI**

Update product Status Interface

- **Update product GUI**
- **Find Order**

Set Measurement

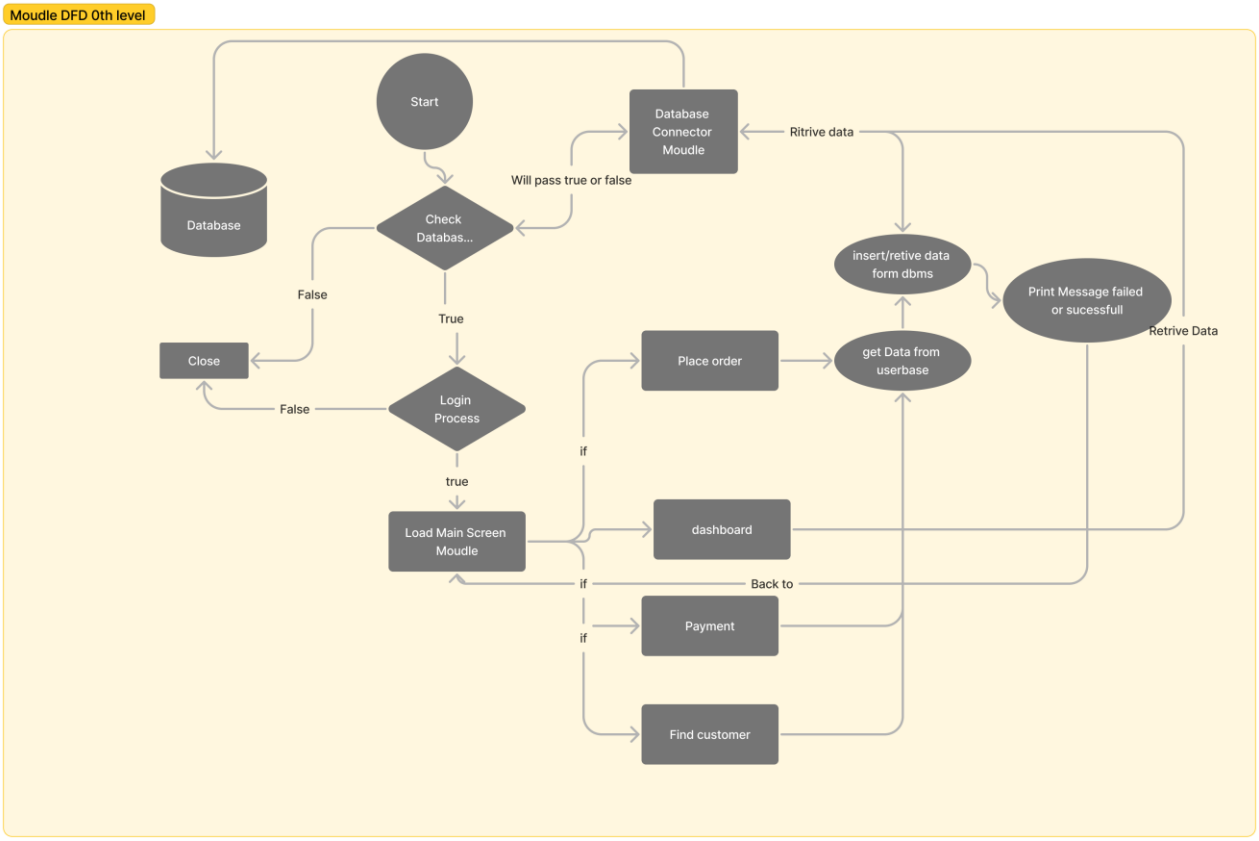
- **Set Measurement GUI**
- **Update/Save Measurements**

Setting

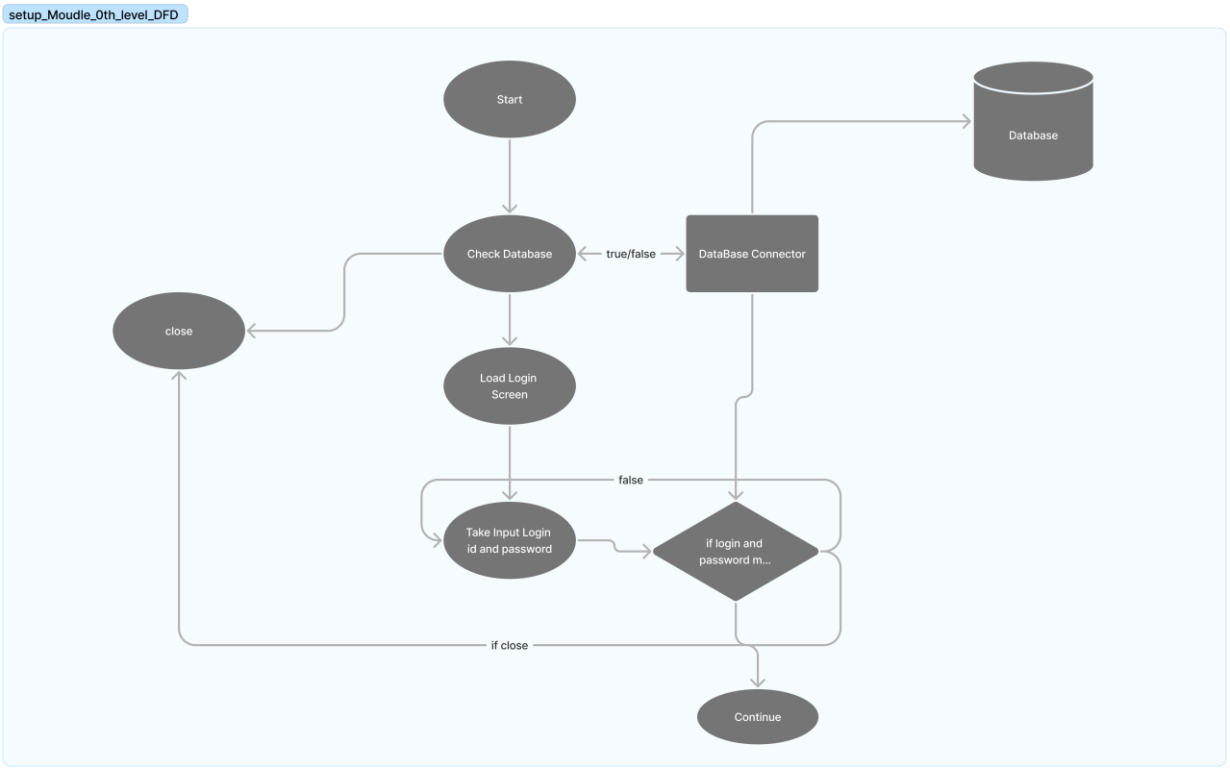
- **Change password**
- **Add product**
- **Change User / Add user**

DFD of Module

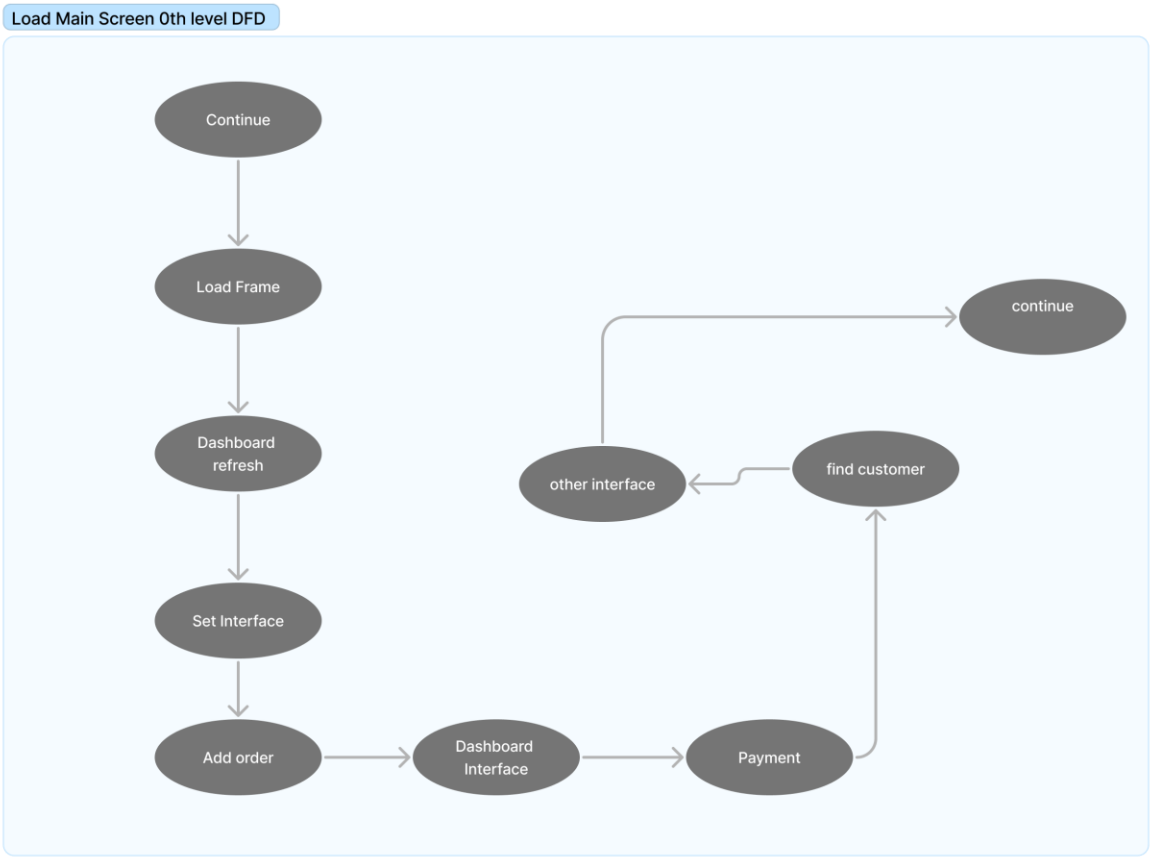
A. 1st Level DFD Module



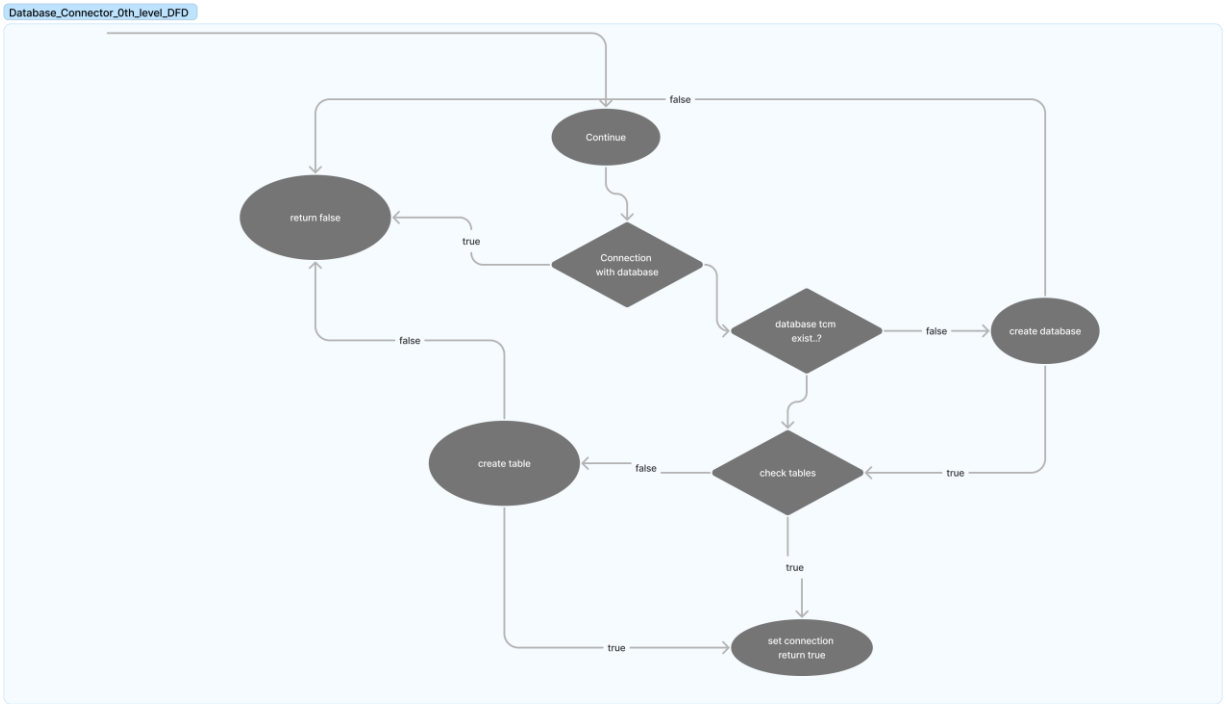
B. 0th level login Model DFD



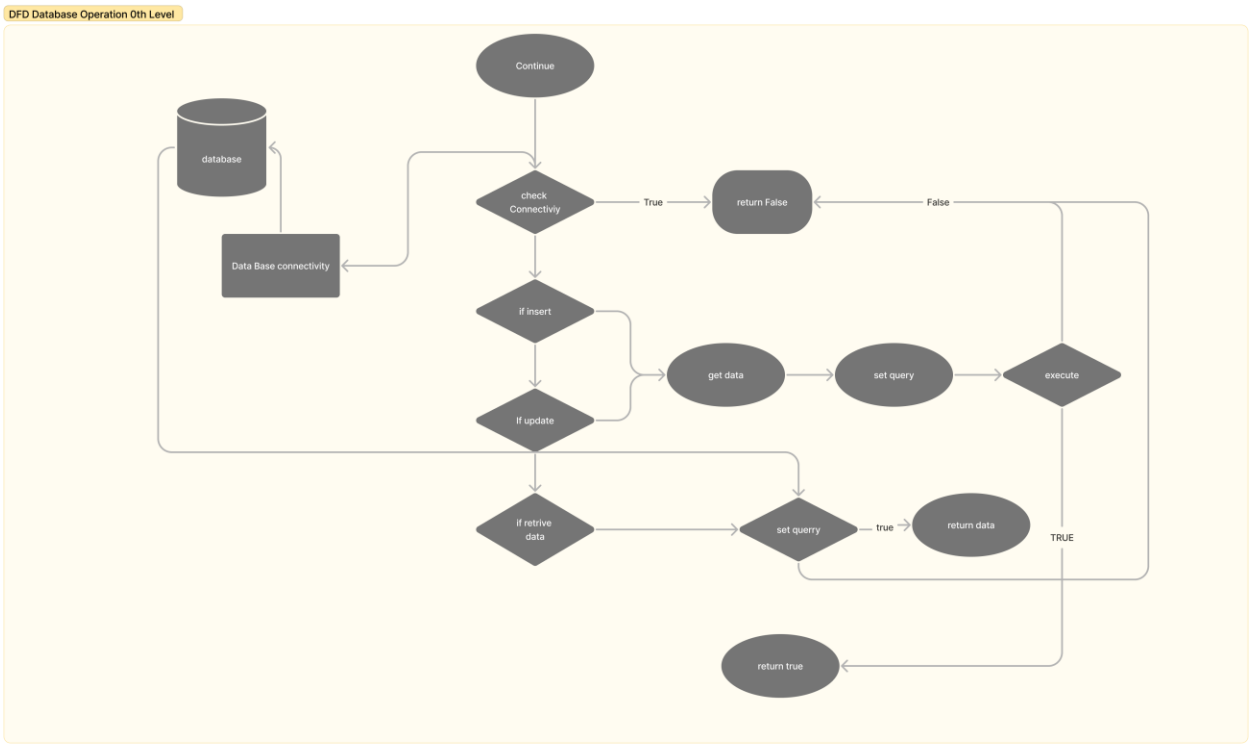
C. Load Main Screen Module 0th level DFD



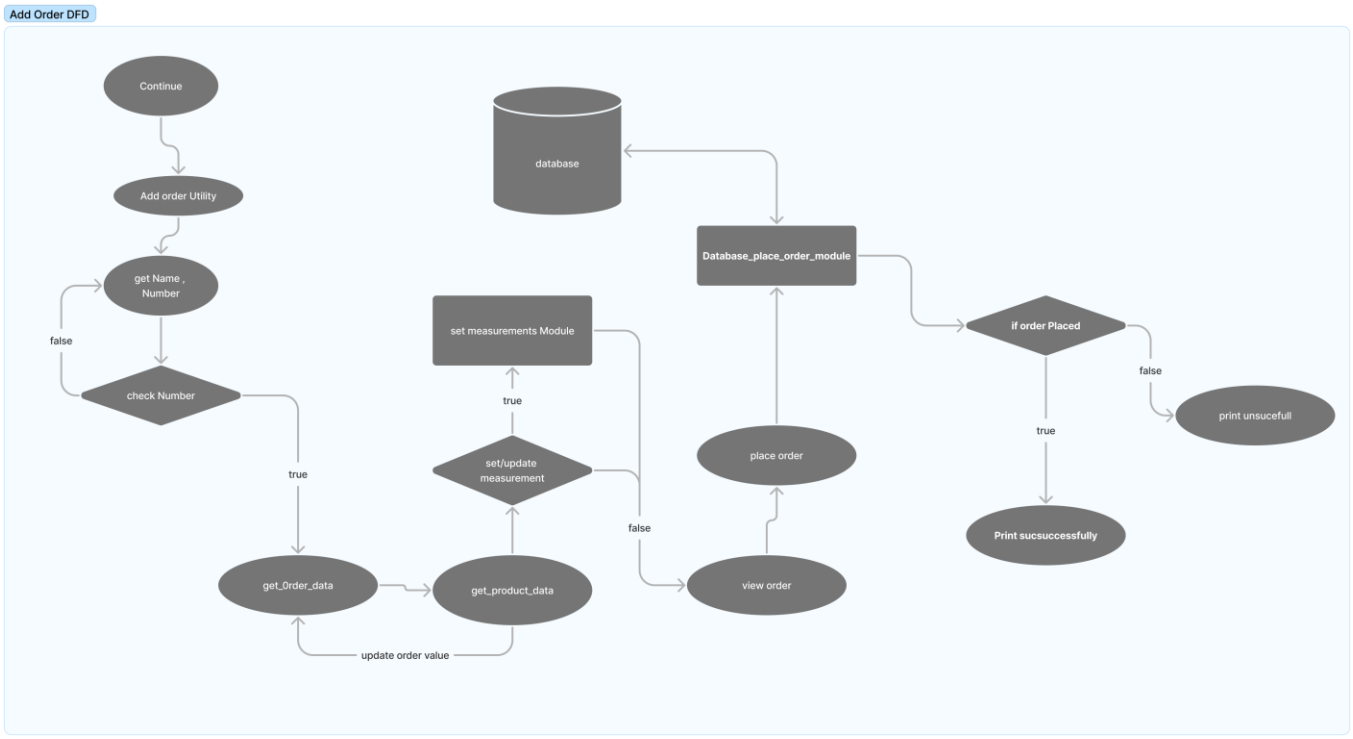
D. Database Connector



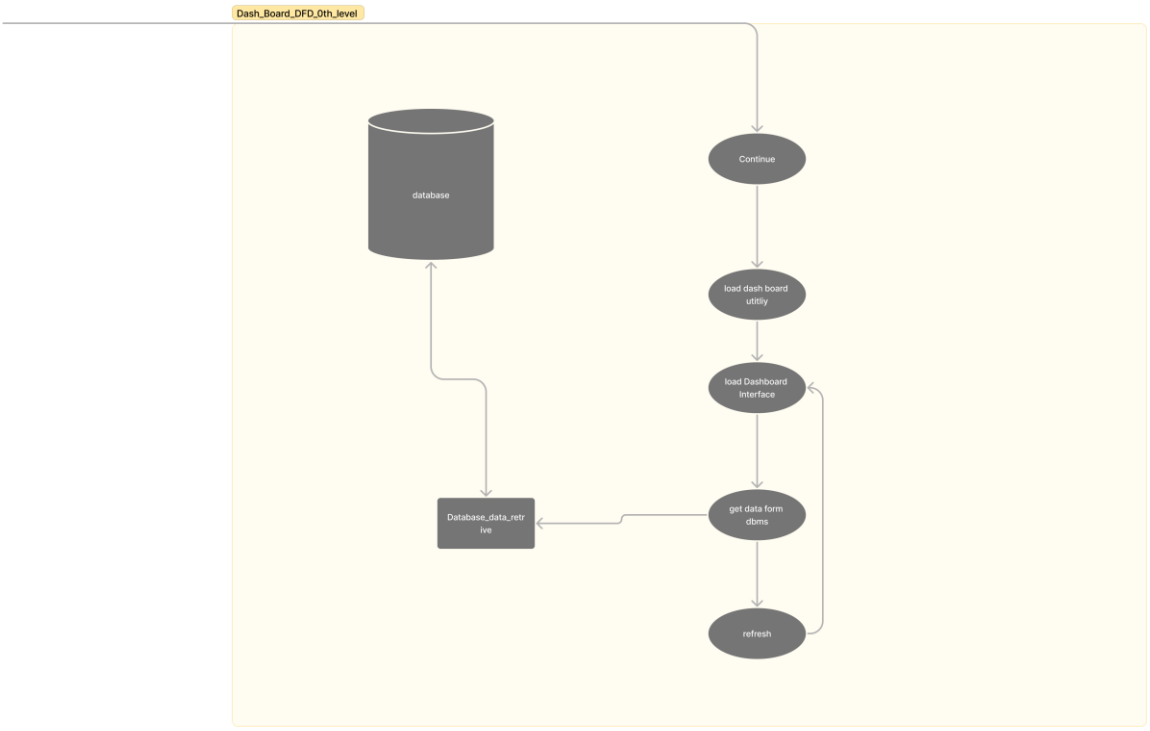
E. Data Base Operation DFD



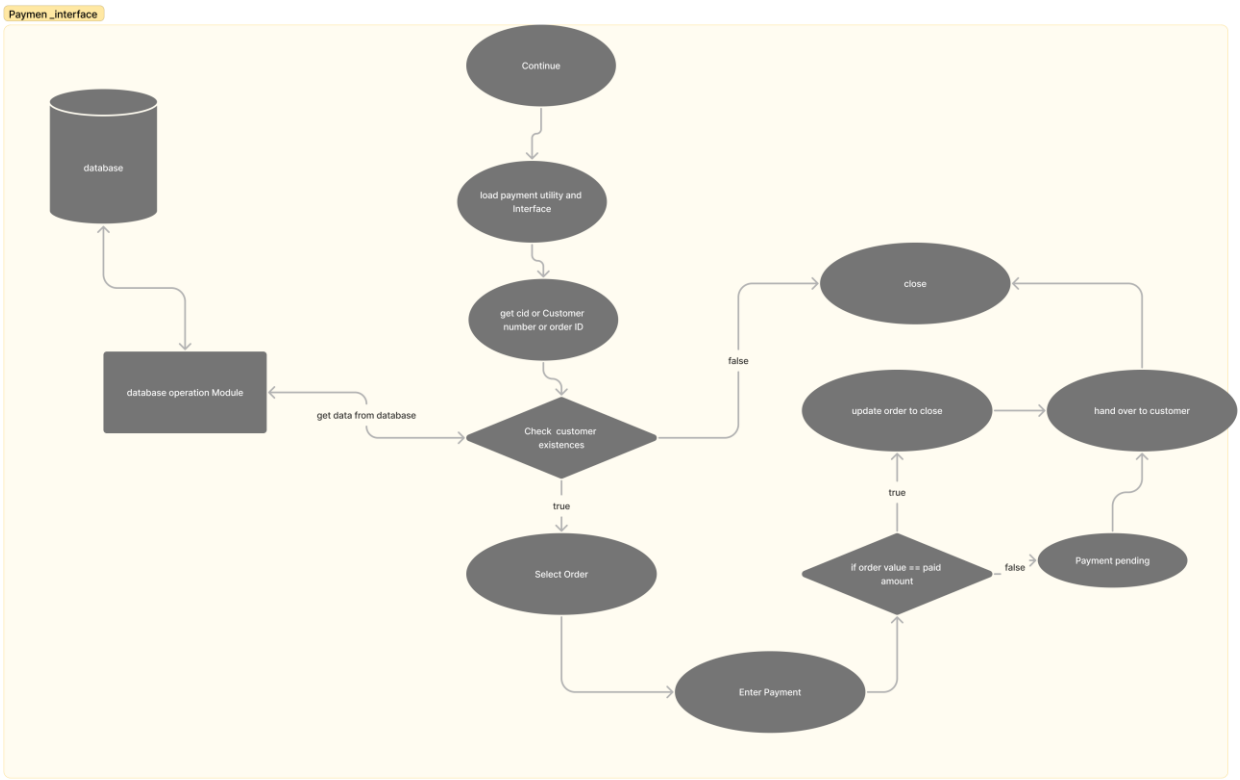
F. Add Order



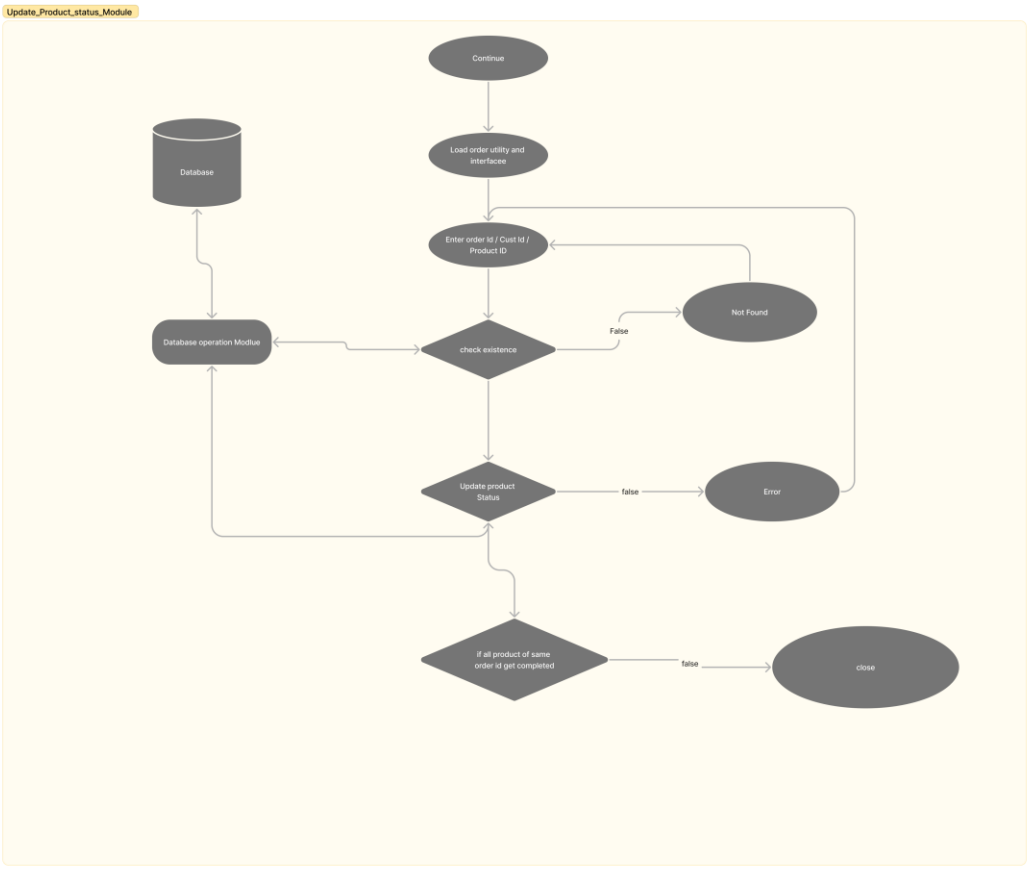
G. Dashboard DFD 0th level



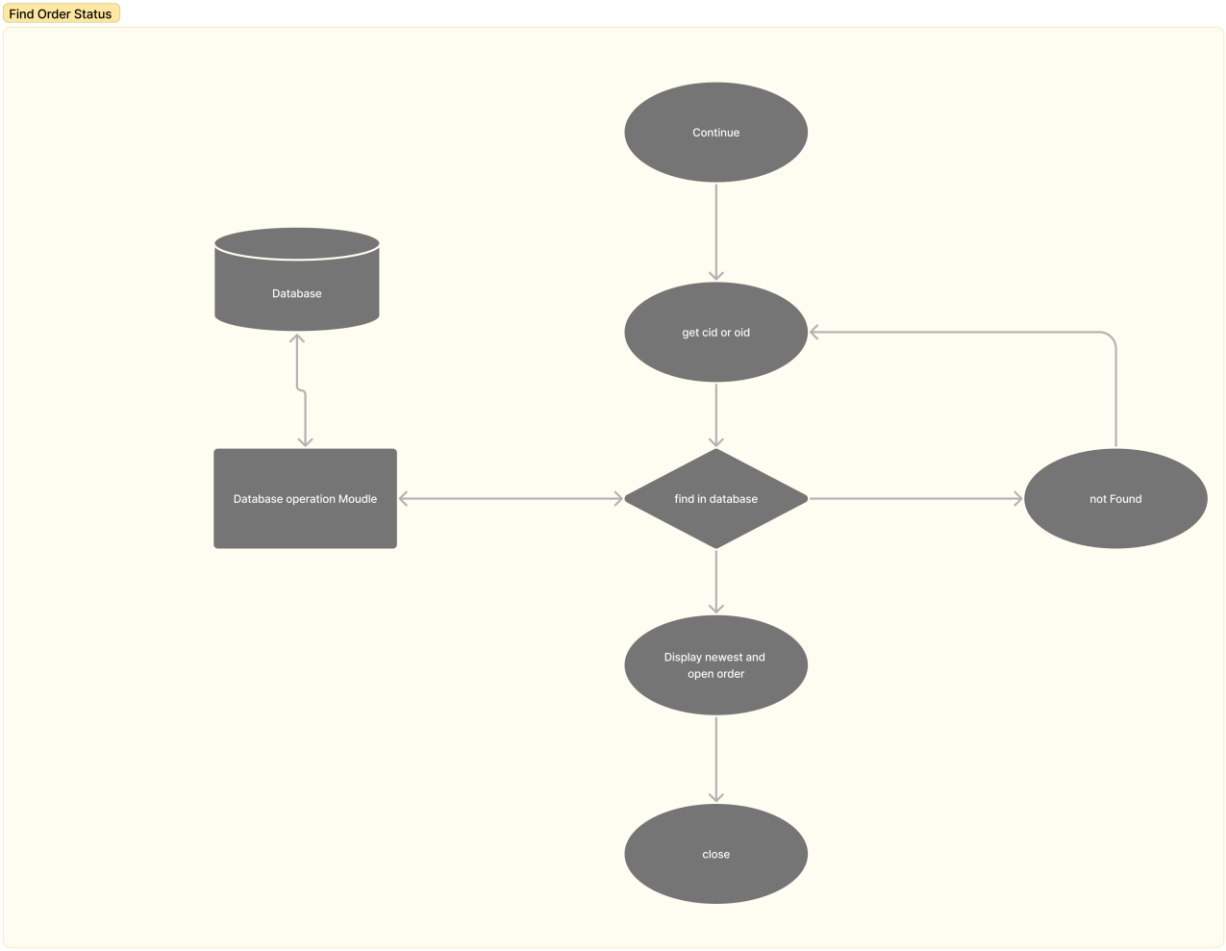
H. Payment Interface



I. Update Product Status

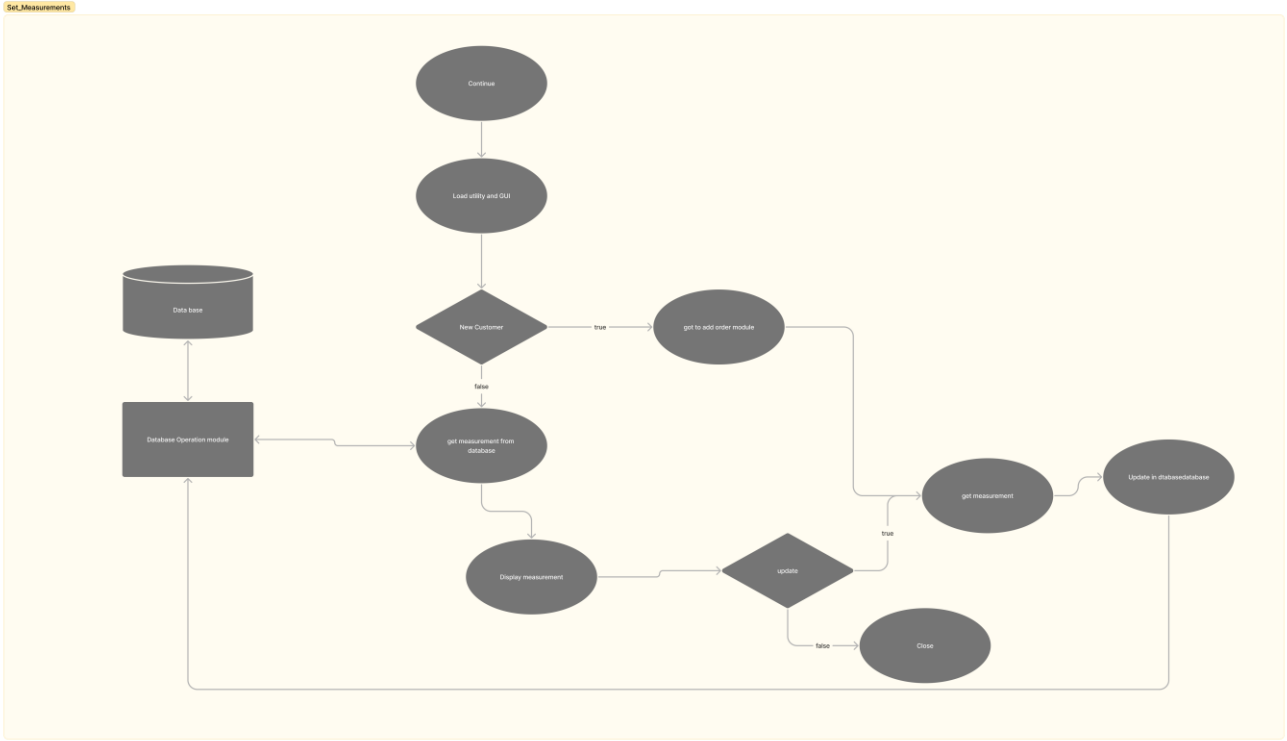


J. Find order



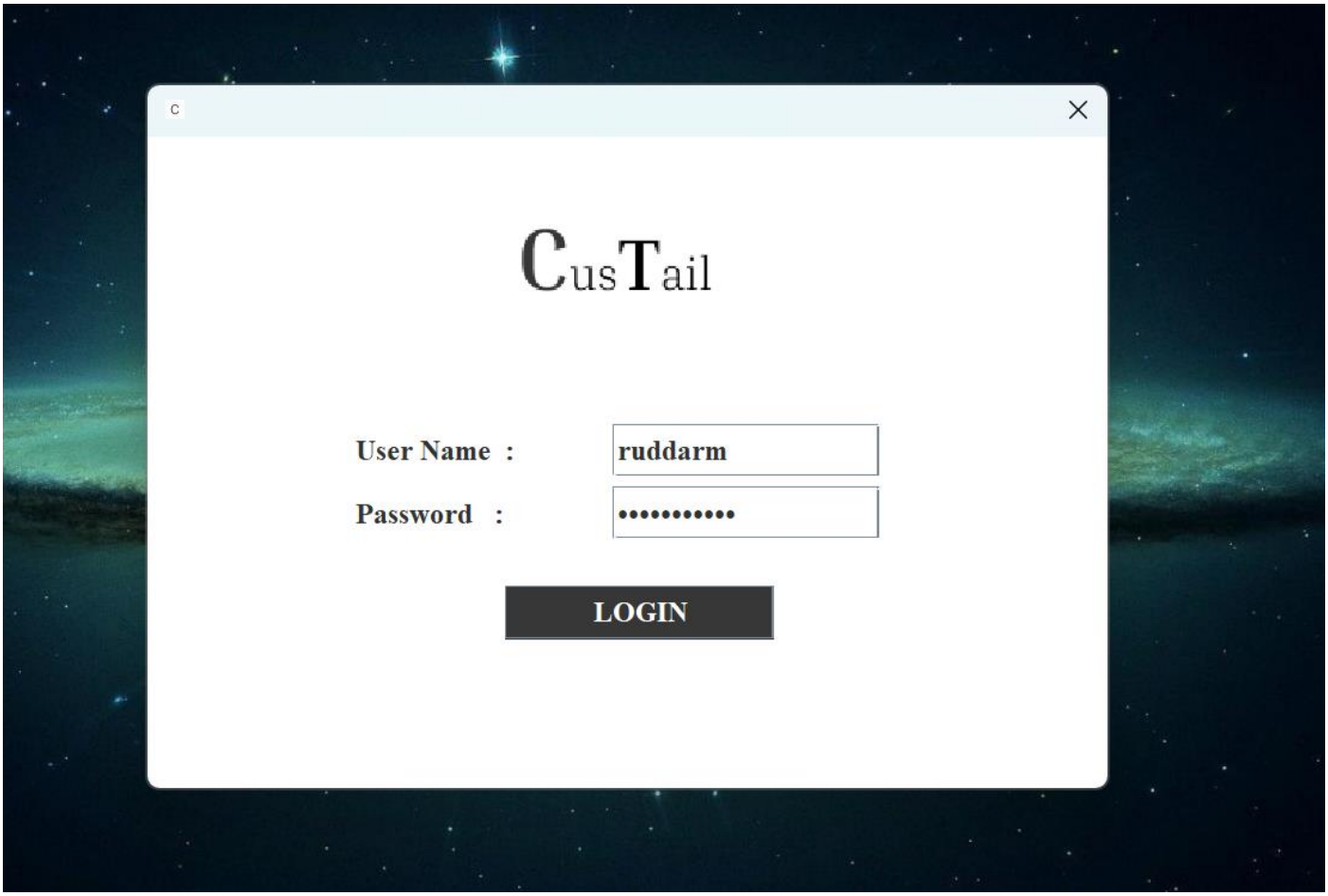
K. SET Measurements

Set_Measurements



GUI Design

Login Screen

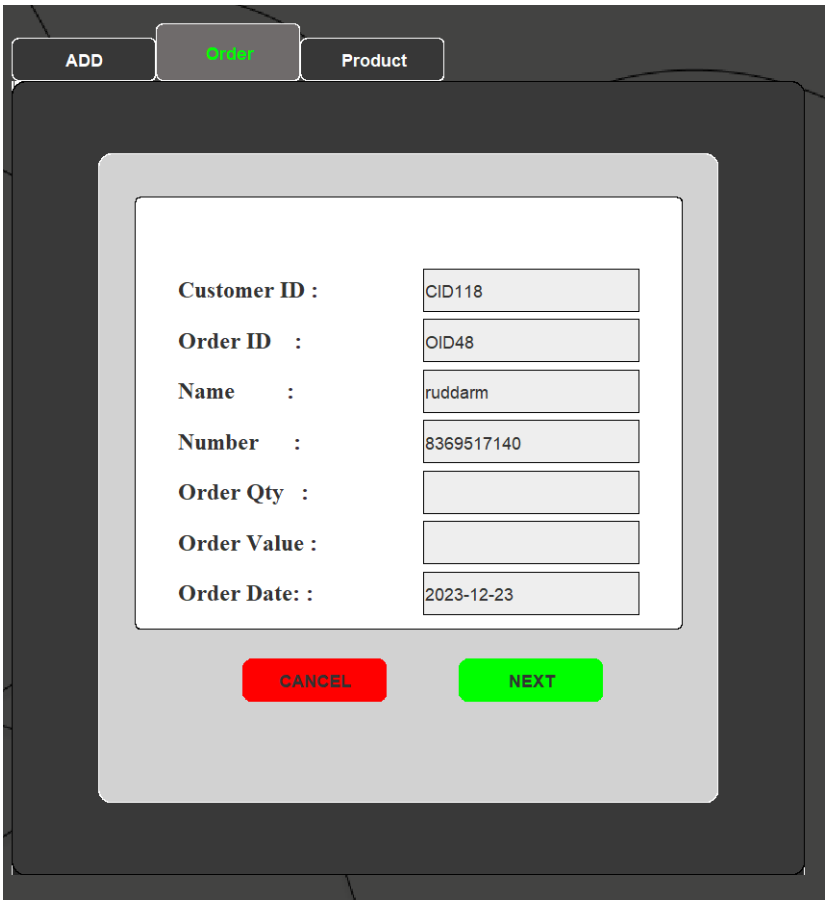


Home page

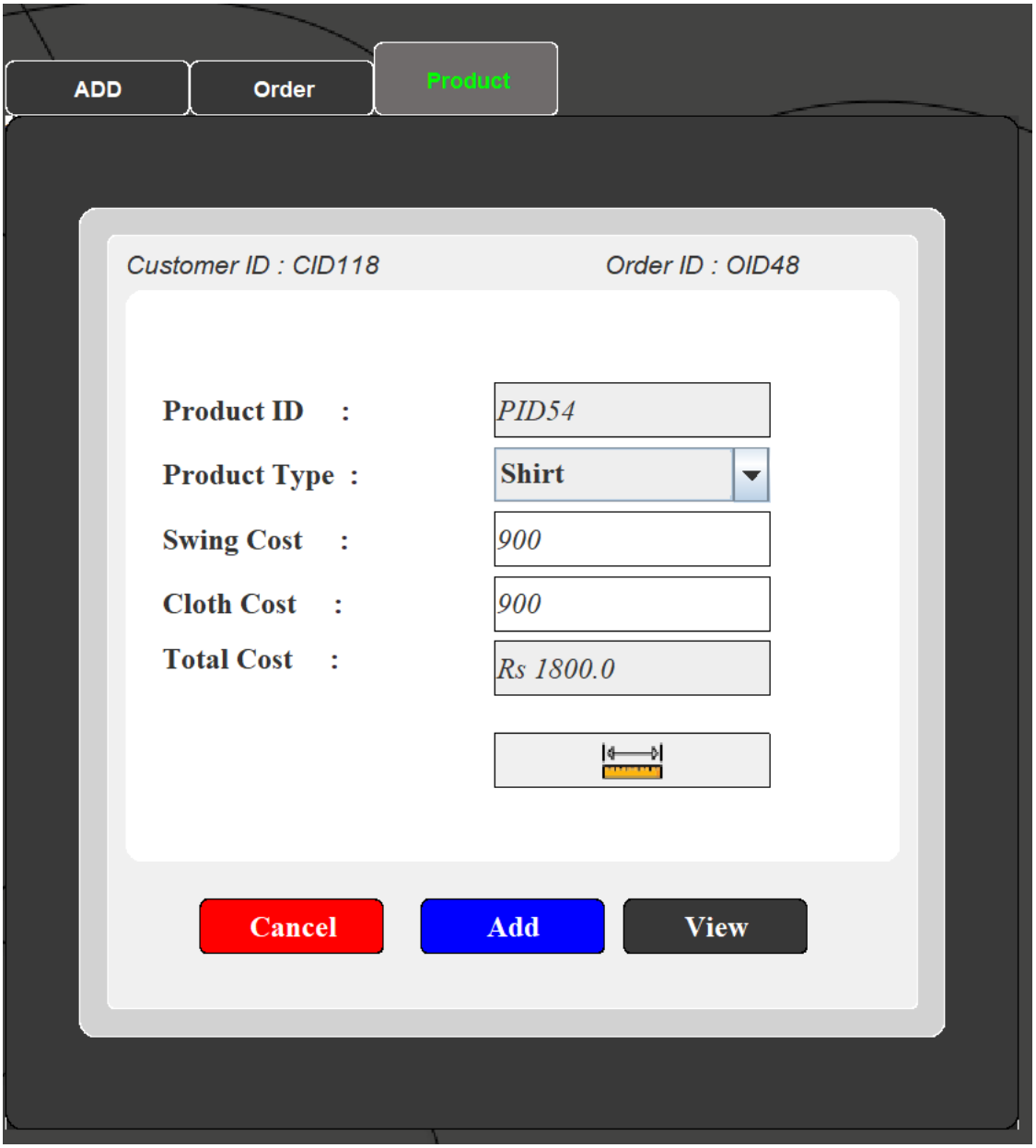
Place Order

Step1 : Add Customer Details

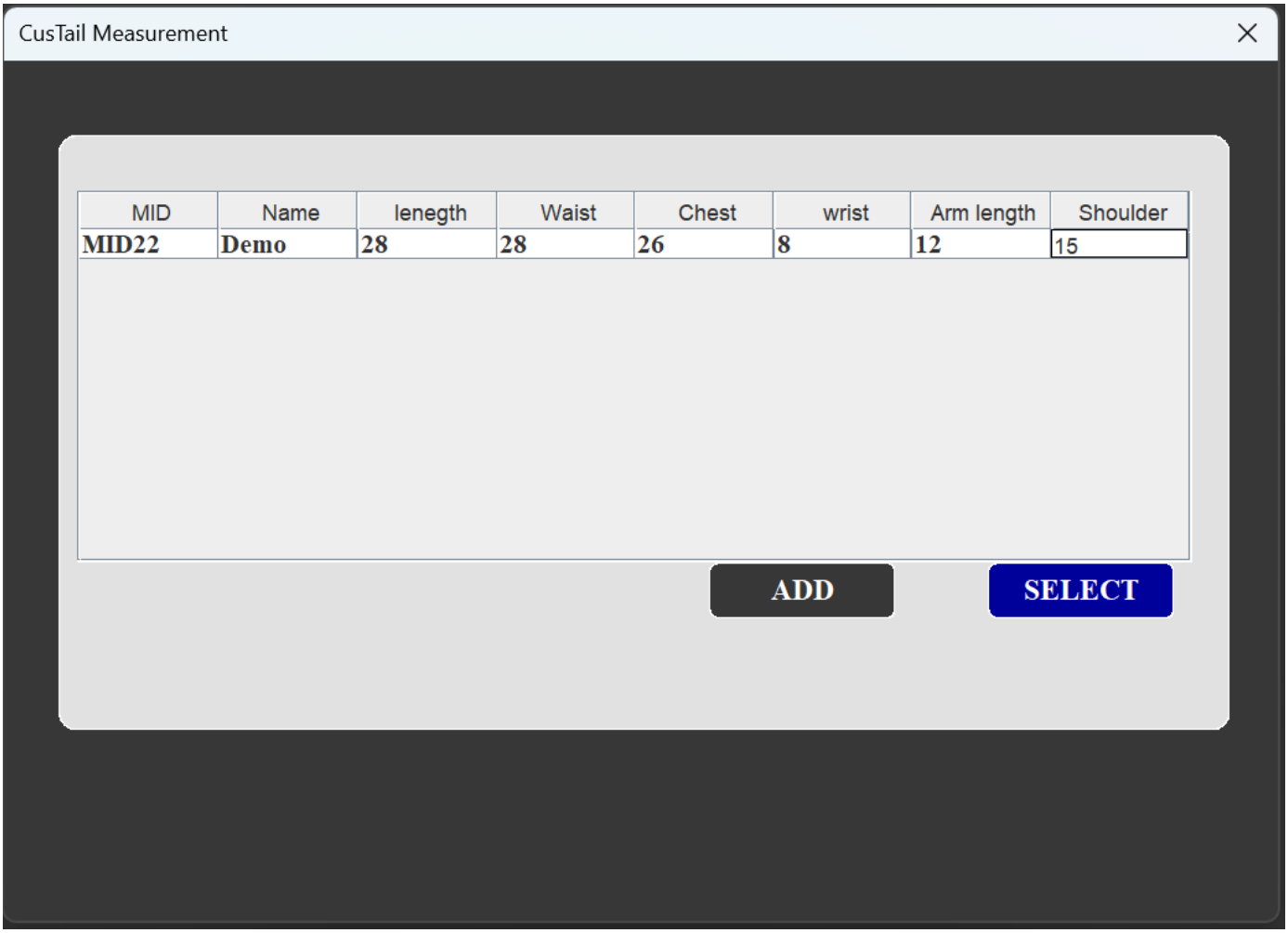
Step 2: Order Details Screen



Step 3 : Add product Details



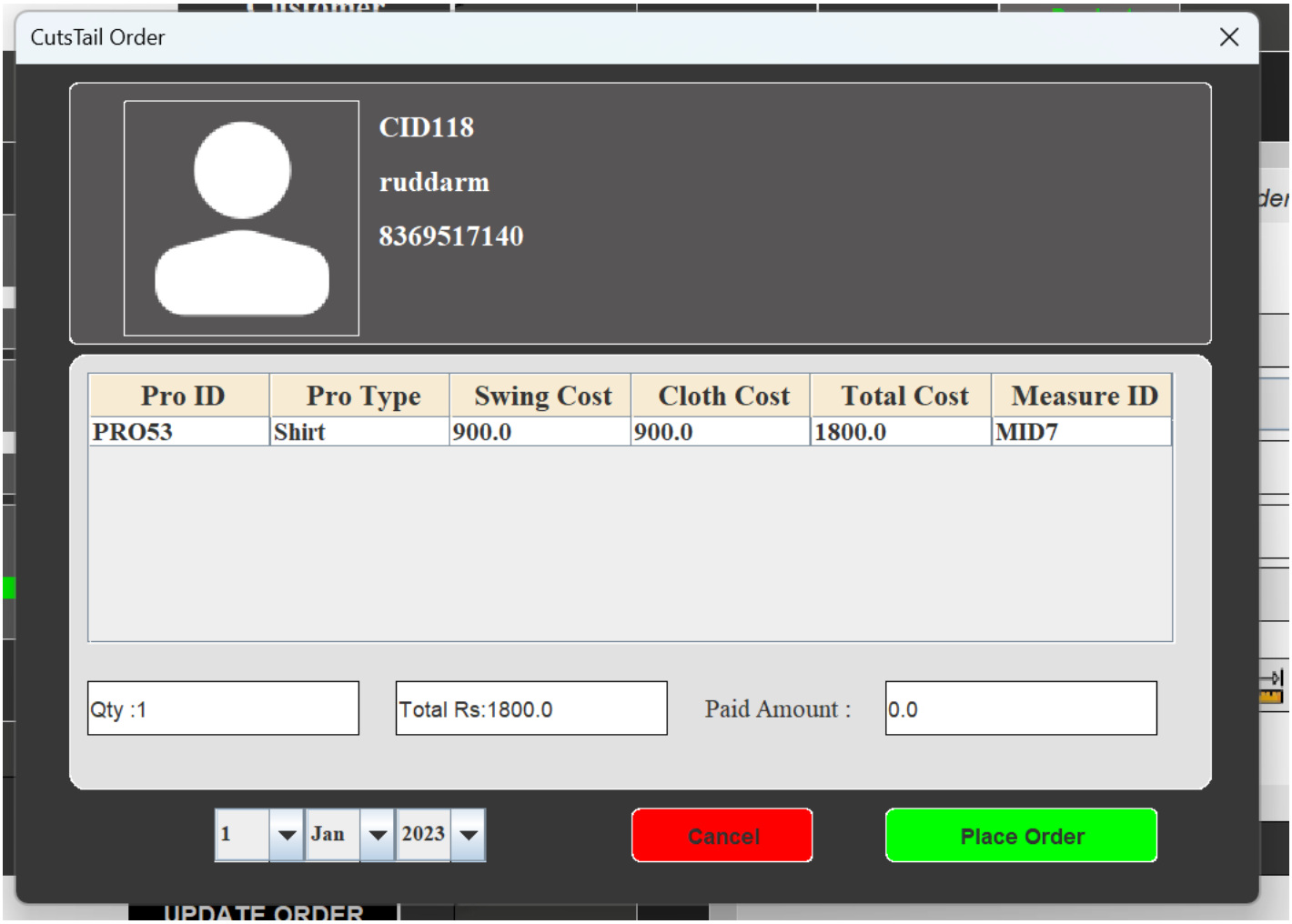
Step 4 : Select existing or new Measurements



Step 5 : Add product to order

Step 6 : View Order Details

Set Delivery date and Paid Amount

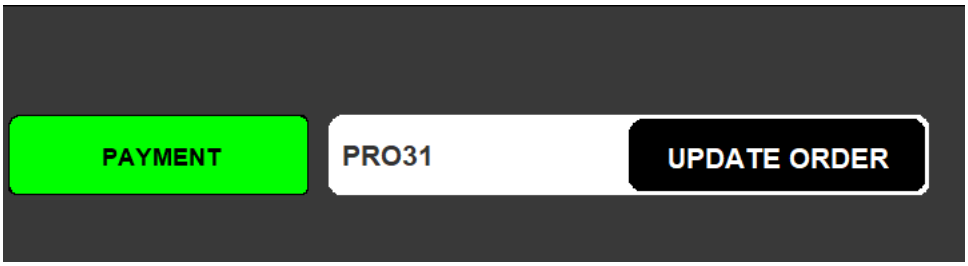


Step 7 : Place order

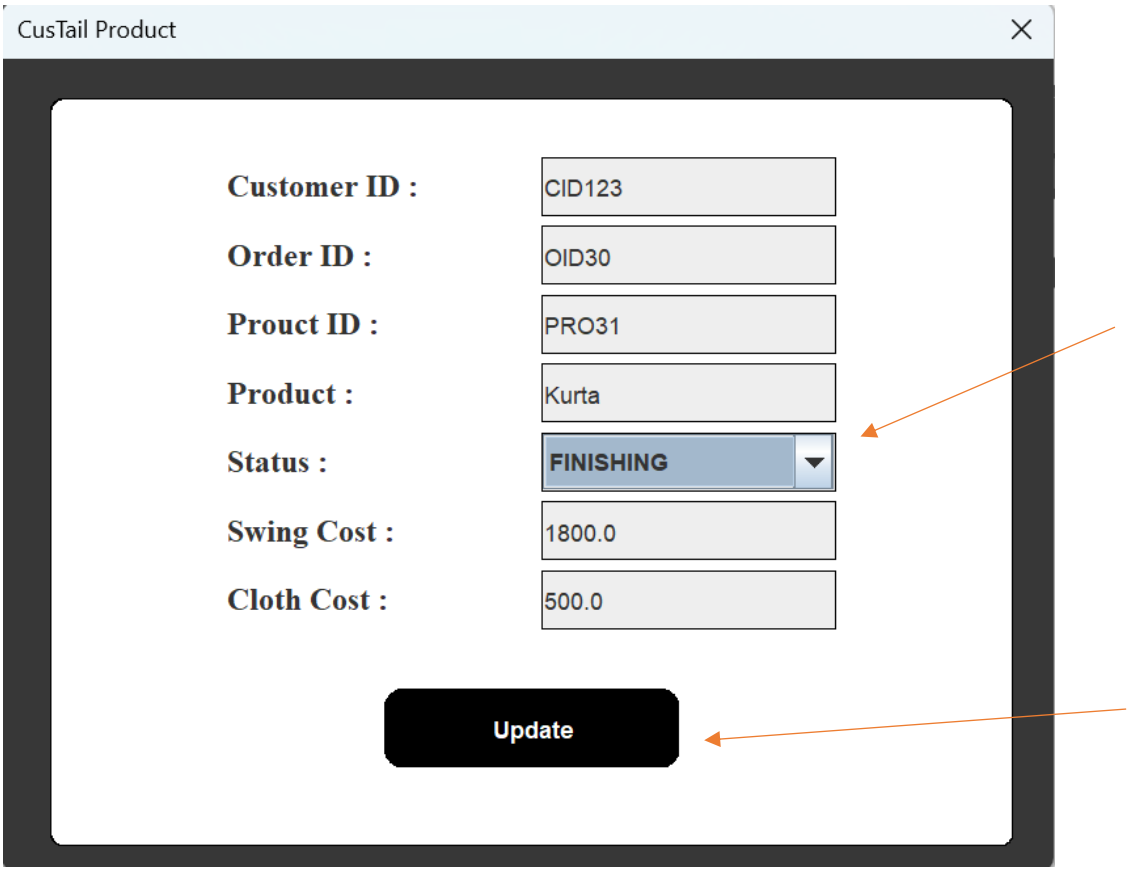
Update Product Status

Using Product ID

Step 1: Enter Product ID



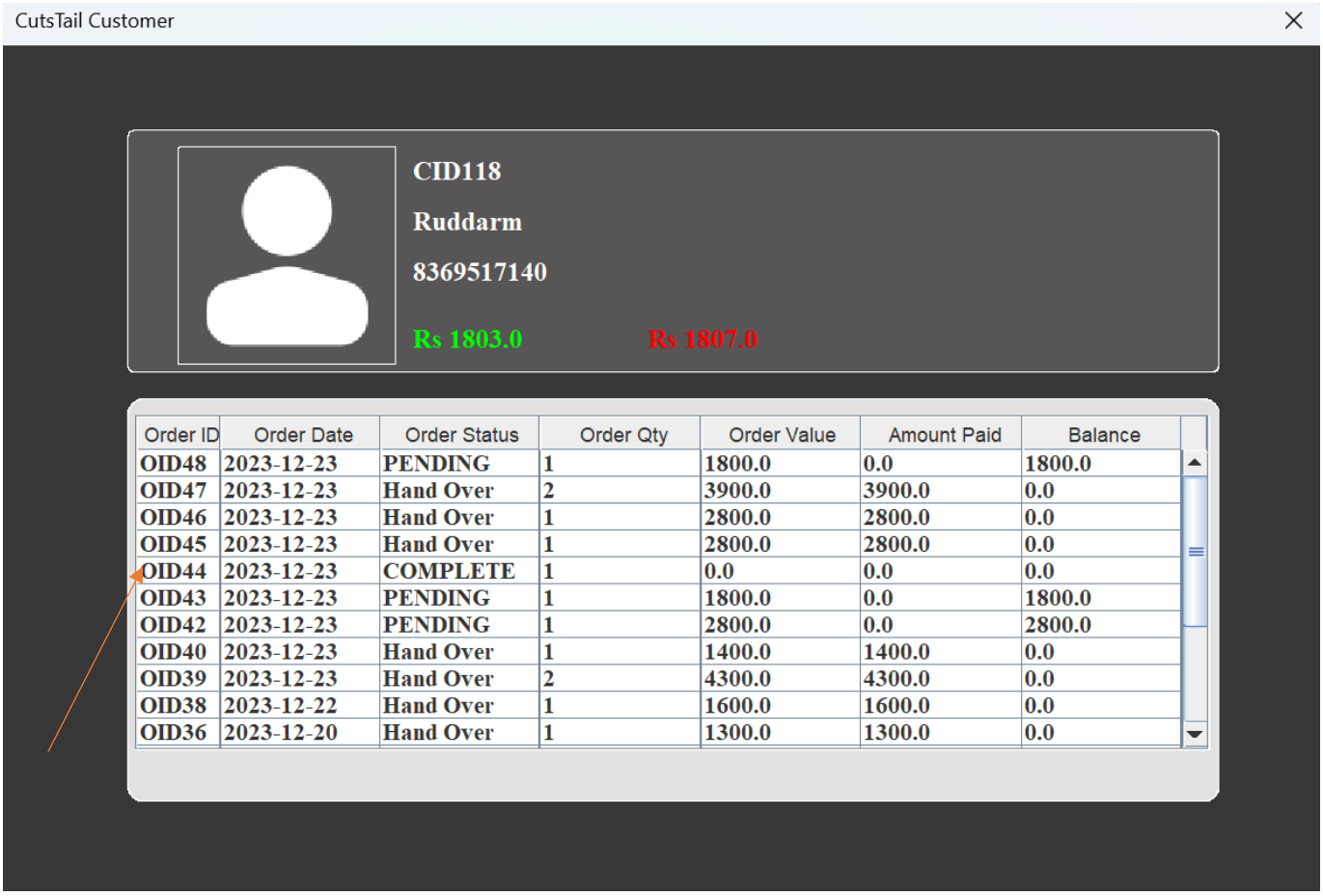
Step 2 : Select status of Product and Update



Using Customer Number

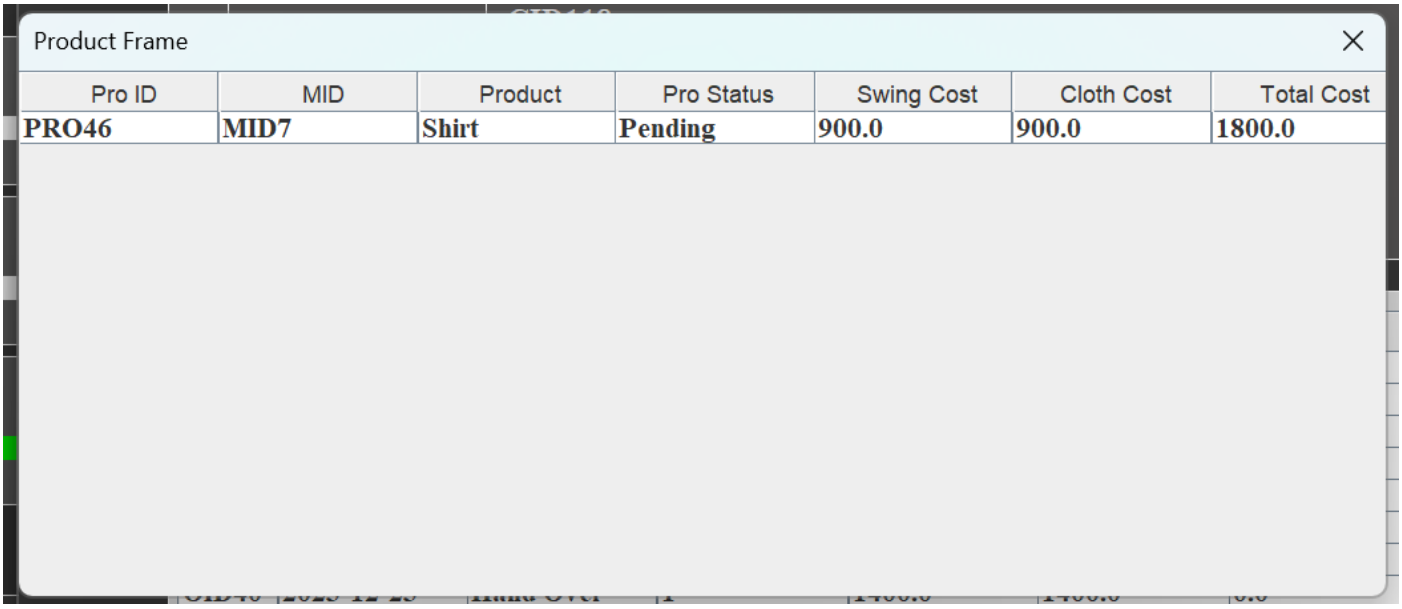
Step 1 : Enter Customer Number

Step 2 : Select Order ID



Order ID	Order Date	Order Status	Order Qty	Order Value	Amount Paid	Balance
OID48	2023-12-23	PENDING	1	1800.0	0.0	1800.0
OID47	2023-12-23	Hand Over	2	3900.0	3900.0	0.0
OID46	2023-12-23	Hand Over	1	2800.0	2800.0	0.0
OID45	2023-12-23	Hand Over	1	2800.0	2800.0	0.0
OID44	2023-12-23	COMPLETE	1	0.0	0.0	0.0
OID43	2023-12-23	PENDING	1	1800.0	0.0	1800.0
OID42	2023-12-23	PENDING	1	2800.0	0.0	2800.0
OID40	2023-12-23	Hand Over	1	1400.0	1400.0	0.0
OID39	2023-12-23	Hand Over	2	4300.0	4300.0	0.0
OID38	2023-12-22	Hand Over	1	1600.0	1600.0	0.0
OID36	2023-12-20	Hand Over	1	1300.0	1300.0	0.0

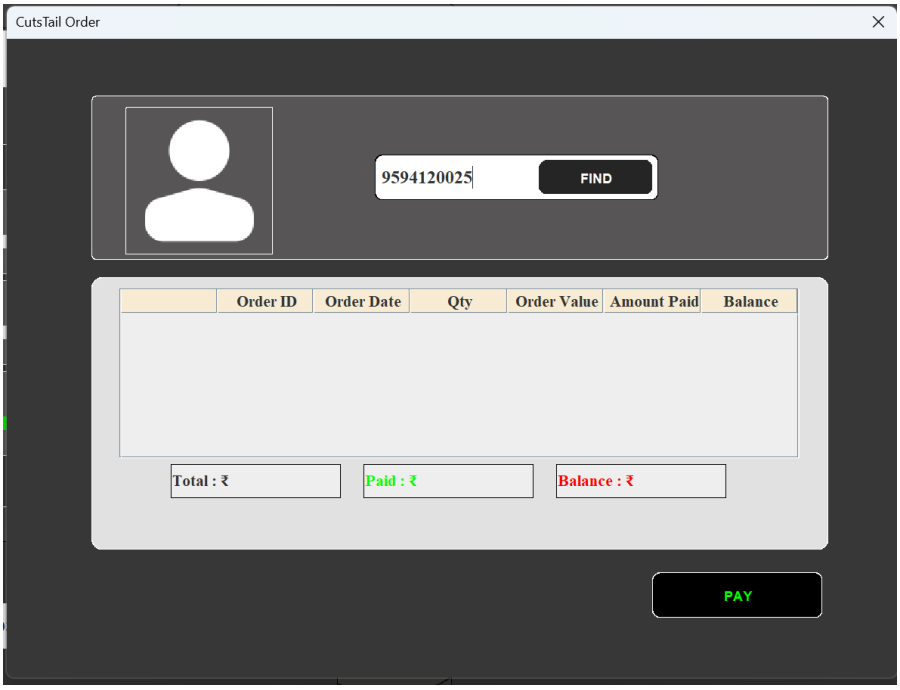
Step 3 : Select Product ID



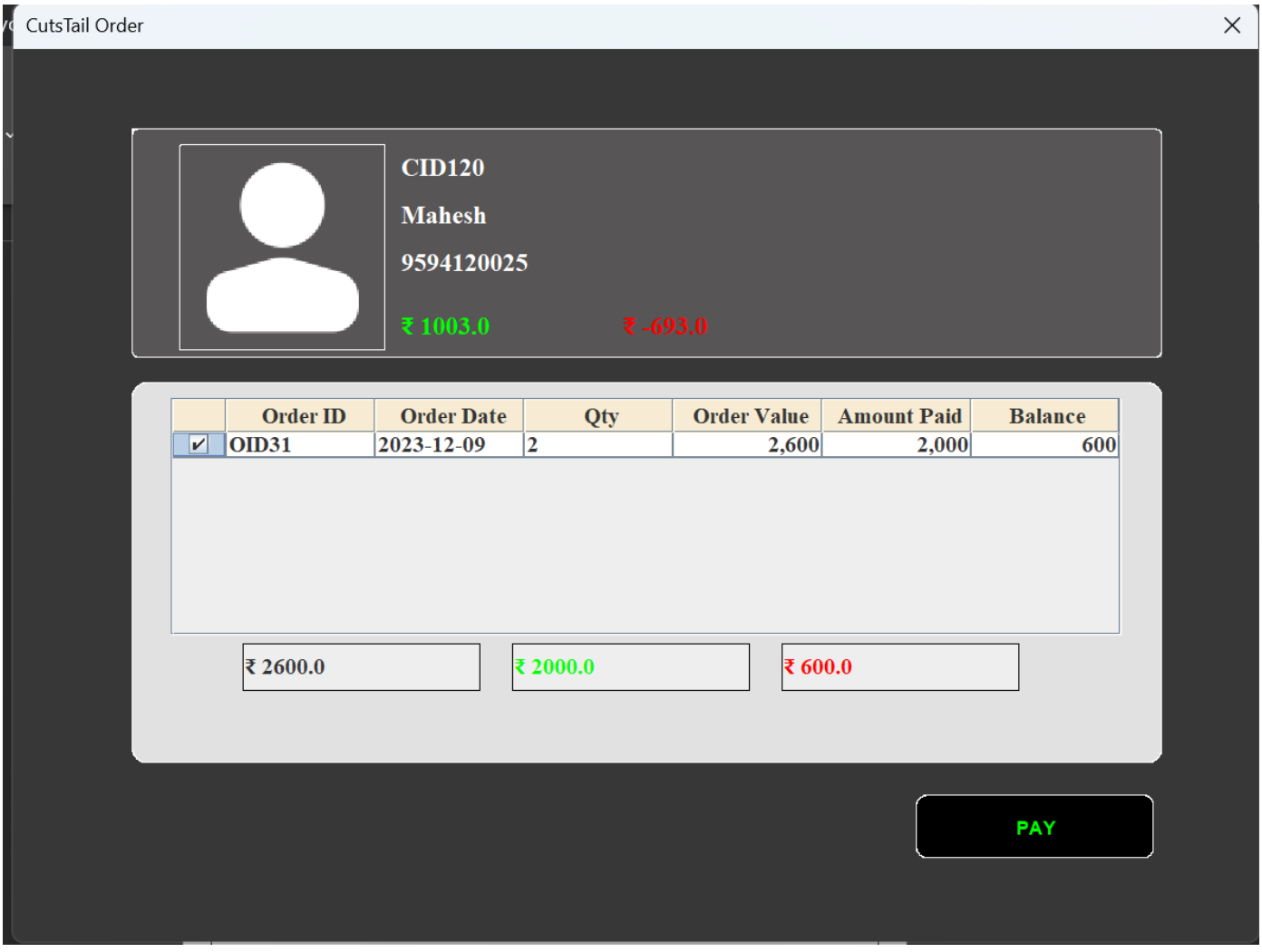
Pro ID	MID	Product	Pro Status	Swing Cost	Cloth Cost	Total Cost
PRO46	MID7	Shirt	Pending	900.0	900.0	1800.0

Payment

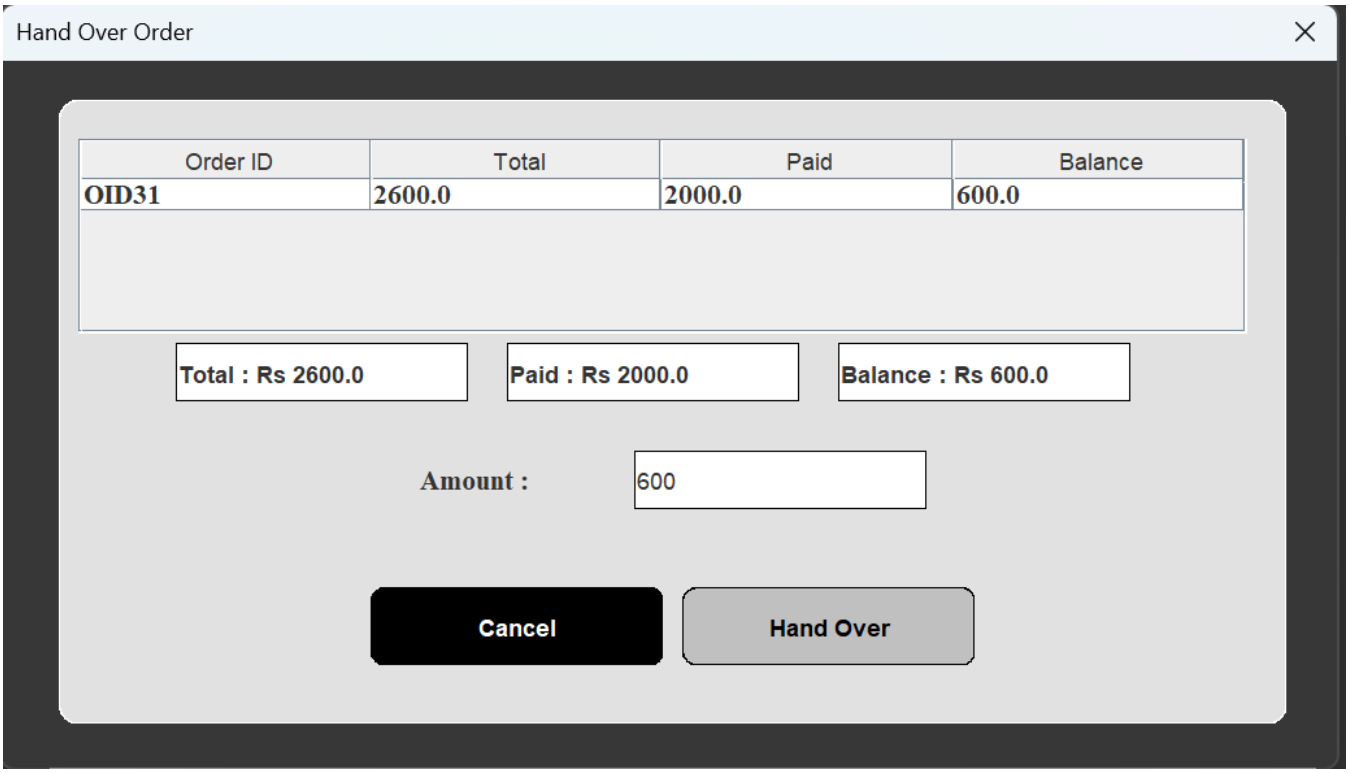
Step 1: Enter Customer Number

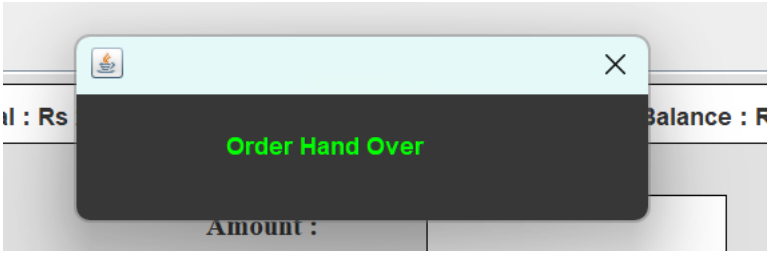


Step 2: Select Order to deliver



Step 3: Enter balance amount and hand over

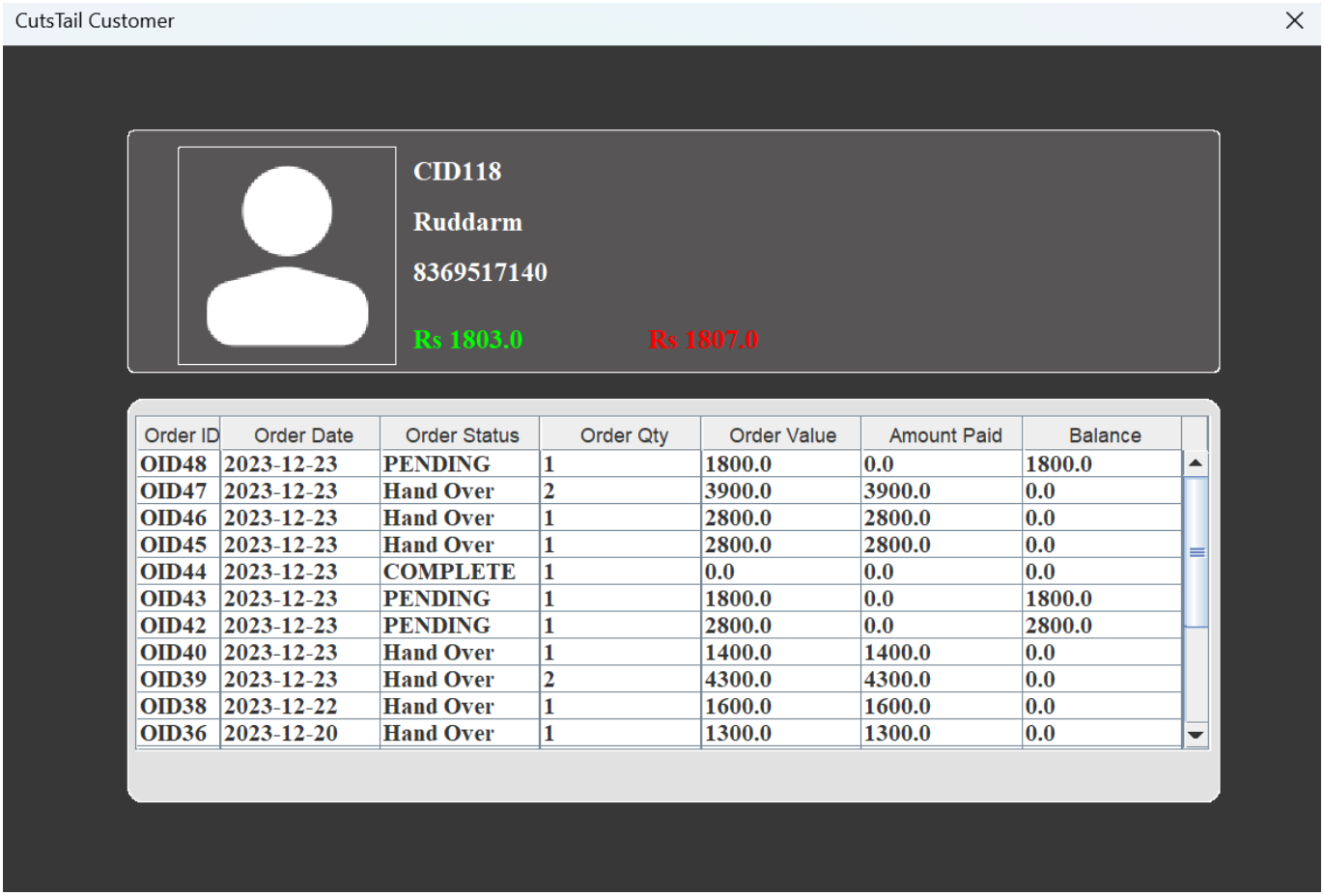




Find Customer Details

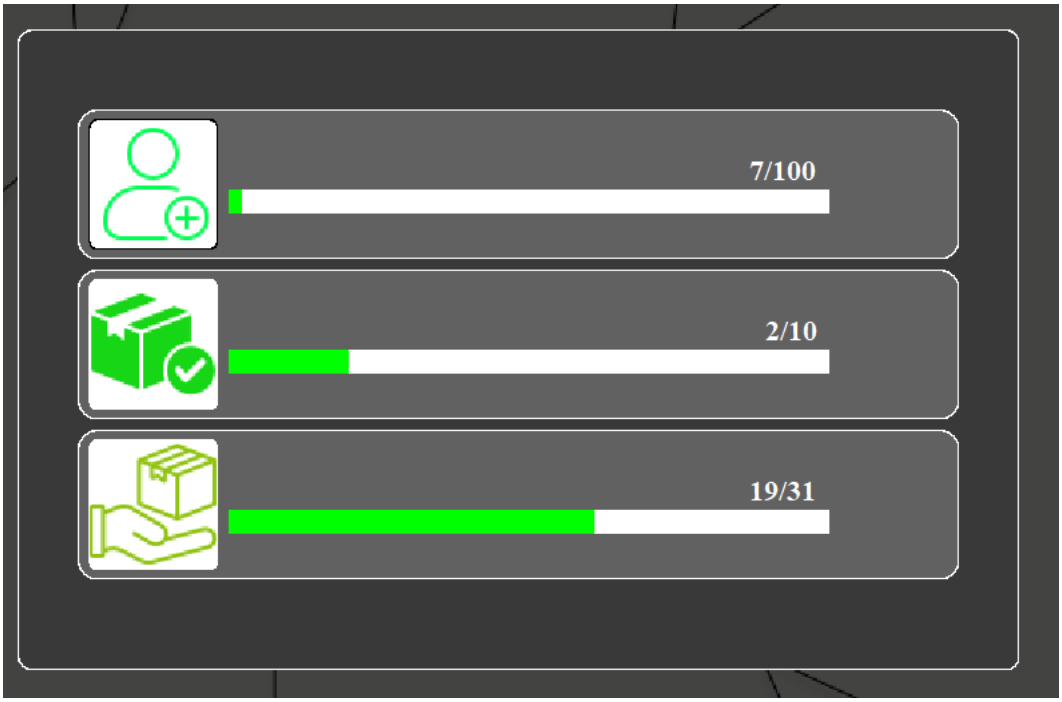
Step 1 : Enter Customer Number

Step 2 : Customer Details

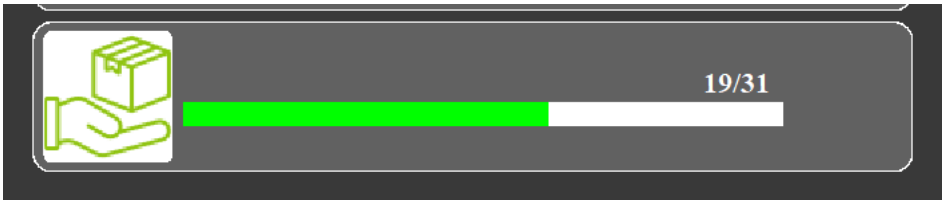


Order ID	Order Date	Order Status	Order Qty	Order Value	Amount Paid	Balance
OID48	2023-12-23	PENDING	1	1800.0	0.0	1800.0
OID47	2023-12-23	Hand Over	2	3900.0	3900.0	0.0
OID46	2023-12-23	Hand Over	1	2800.0	2800.0	0.0
OID45	2023-12-23	Hand Over	1	2800.0	2800.0	0.0
OID44	2023-12-23	COMPLETE	1	0.0	0.0	0.0
OID43	2023-12-23	PENDING	1	1800.0	0.0	1800.0
OID42	2023-12-23	PENDING	1	2800.0	0.0	2800.0
OID40	2023-12-23	Hand Over	1	1400.0	1400.0	0.0
OID39	2023-12-23	Hand Over	2	4300.0	4300.0	0.0
OID38	2023-12-22	Hand Over	1	1600.0	1600.0	0.0
OID36	2023-12-20	Hand Over	1	1300.0	1300.0	0.0

Dash Board



Total Customer

Order completed out of total number of order

Total Order Hand Over/ Delivered