

# CSE302: Database Systems (Section 7) Spring 2024

# **Project Report**

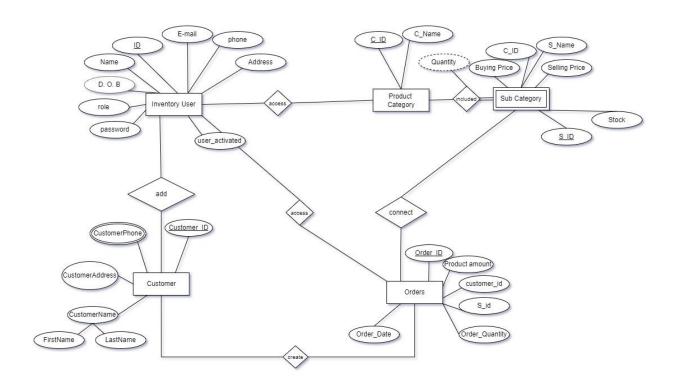
**Inventory Management System with POS** 

https://shorturl.at/phyNa

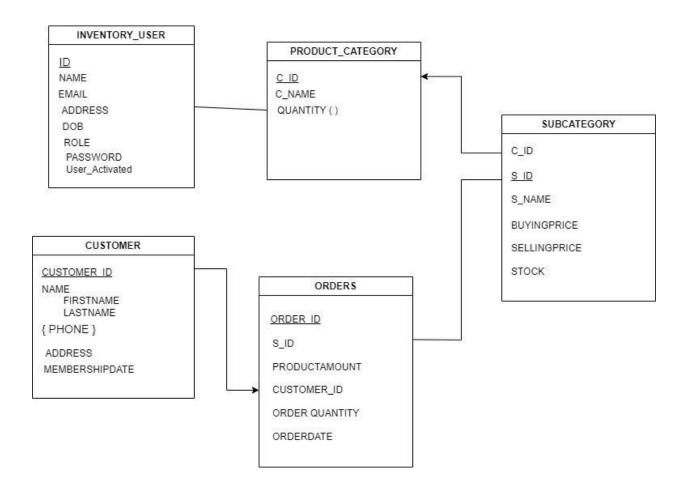
#### **Submitted by:**

Student ID	Student Name	<b>Contribution Percentage</b>
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2022-3-60-243	Wasimul Bari Rahat	25%

# 1. E-R Model of the Project



# 2. Schema Design of the Project



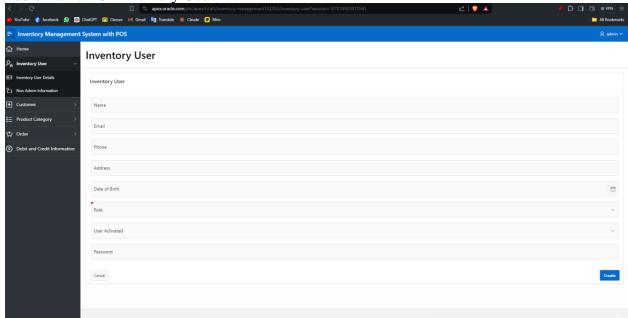
# 3. Implementation Checklist

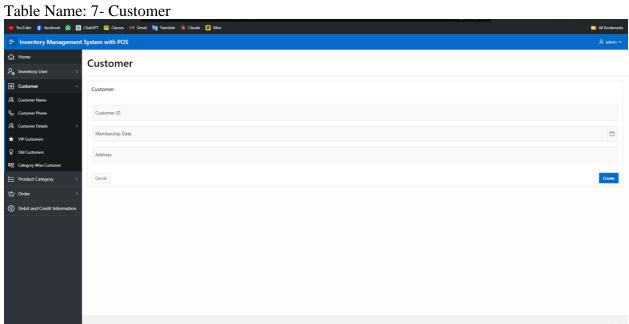
Description	Remarks
Project ID	204550
Workspace Name	RAFI
Workspace Email	saleh.rafi.01@gmail.com
Workspace Password	kichuekta
Authentication Type	Custom
Username and Password to Login	Username: admin, Password: 1234
	Username: testing, Password: 1234
Number of Reports with Forms	7
Number of Reports based on Queries,	8
Aggregate Queries	
Extra features	We are using Sequence to generate an automatic
	user ID. Sometimes unique ID generation is
	impossible for us. It can be help to generate
	unique ID every time when create a new user.
Unique functionality	There are lots of unique functionality in our app.
	We use sequence, navigation menu, dropdown,
	authorization, custom authentication, nested
	subqueries and many things.

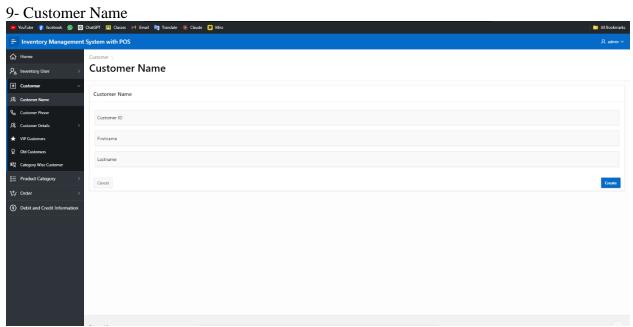
# 4. Reports with Forms

Report Page Number and Name	Form Page Number and Name	Table
2- Details Customer	7- Customer	Customer
Information		CustomerName
		CustomerPhone
4- Non Admin Information	7- Customer	InventoryUser
12- Debit and Credit	11- Product Category	SubCategory
Information	33- Order	Orders
14- Inventory User Details	13- Inventory User	InventoryUser
17- Category Wise Customer	33- Order	Customer
	21- Sub Category	CustomerName
	11- Product Category	CustomerPhone
22- Product Category Details	11- Product Category	ProductCategory
23- Random Customer	33- Order	Customer
	21- Sub Category	CustomerName
		CustomerPhone
26- Sub Category Details	21- Sub Category	SubCategory
28- Customer Info	7- Customer	Customer
	9- Customer Name	CustomerName
		CustomerPhone
30- details Customer	7- Customer	Customer
	9- Customer Name	CustomerName
	10- Customer Phone	CustomerPhone
31- VIP Customers	7- Customer	Customer
	9- Customer Name	CustomerName
	10- Customer Phone 33- Order	CustomerPhone
34- Order Details	33- Order 7- Customer	Orders
36- Customer Order Details	7- Customer	Orders
	9- Customer Name	Customer
	10- Customer Phone	CustomerName
	33- Order	CustomerPhone
40- Old Customers	33- Order	Customer
	7- Customer	CustomerName
		CustomerPhone
42- Product View	21- Sub Category	ProductCategory
		SubCategory

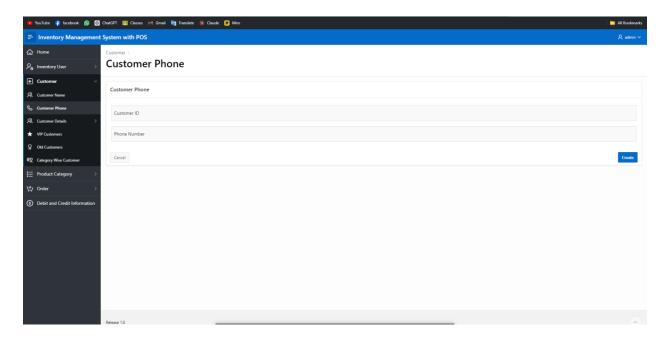
Table Name: 13- Inventory User



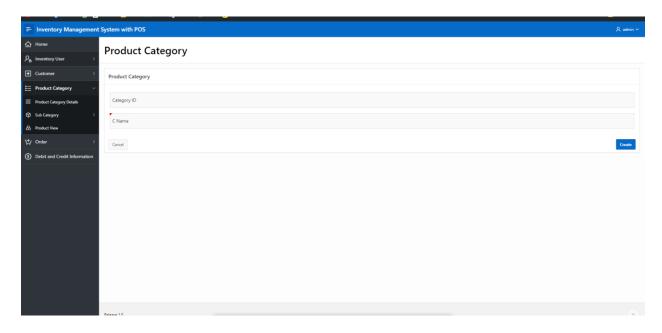




#### Table Name: 10- Customer Phone



### Table Name: 11- Product Category



### Table Name: 21- Sub Category

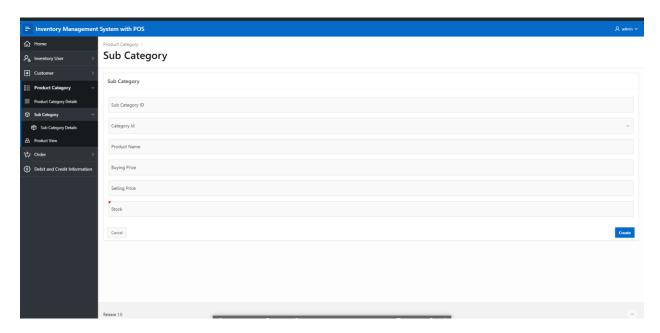


Table Name: 33- Order

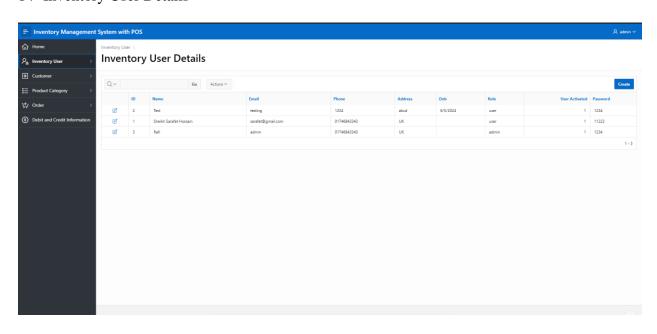


# 5. Reports based on Multi-Table and Aggregate Queries

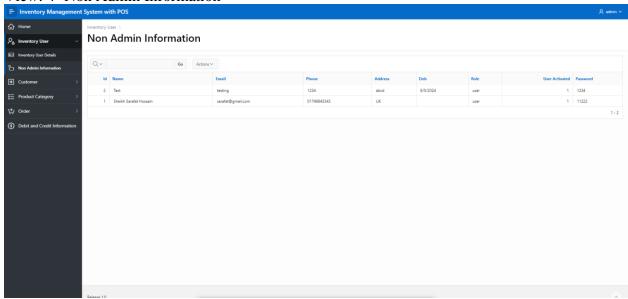
Page Number and Name	Query Type	Report description
2- Details Customer Information	Multi-table	This table shows the details information about customer which we comes from customer, customer-Name and phone
		number table
4- Non Admin Information	Nested Subquery	If User is not an admin then he cannot get some confidential access. This is a nested query.
12- Debit and Credit Information	Multi-table and Aggregate	By analysis the order table this view is works it shows the revenue total cost and total profit.
14- Inventory User Details	Normal Query	This is the simple view for showing Inventory user details
17- Category Wise Customer	Multi-table	It shows the category wise customer details, for testing out default category is Grocery
22- Product Category Details	Multi-table	Product category details view shows the product category and it's id

Page Number and Name	Query Type	Report description
2- Details Customer Information	Multi-table	This table shows the details information about customer which we comes from customer, customer-Name and phone number table
4- Non Admin Information	Nested Subquery	If User is not an admin then he cannot get some confidential access. This is a nested query.
23- Random Customer	Multi-table	Non registered customer are treated as random customer
26- Sub Category Details	Single-table	It shows the Product List and it's information
28- Customer Info	Multi-table	Shows full customer Information
31- VIP Customers	Multi-table and Aggregate	If customer's purchase history is grater then average customer purchase amount then the customer starred as a VIP customer
34- Order Details	Multi-table	Its shows the order history of successfully created order
36- Customer Order Details	Multi-table	Full order information shows in this view
40- Old Customers	Multi-table	Customers who registered 1 year ago are shows in this view
42- Product View	Multi-table	It shows Information about product

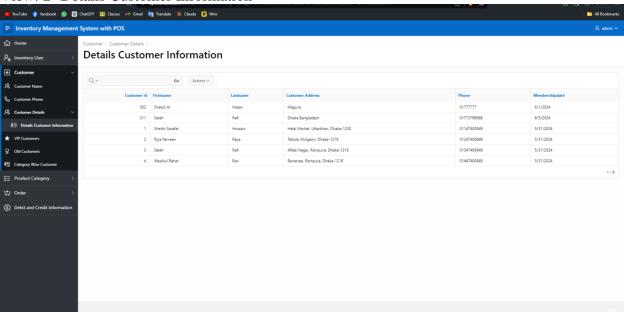
## 14- Inventory User Details



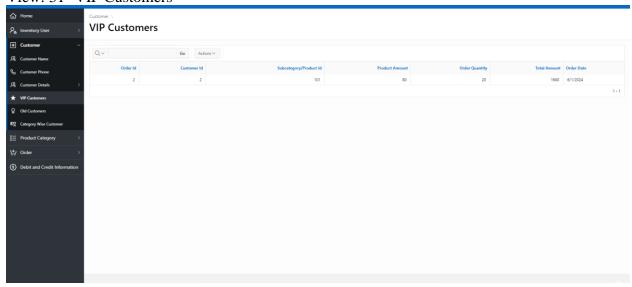
#### View: 4- Non Admin Information



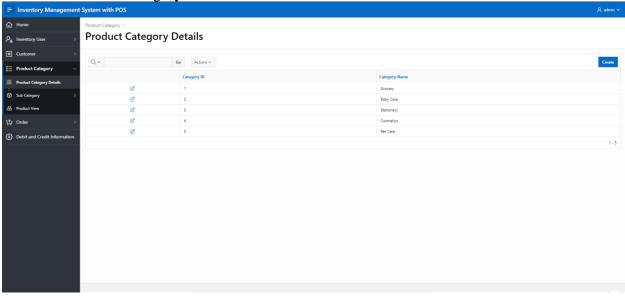
#### View: 2- Details Customer Information



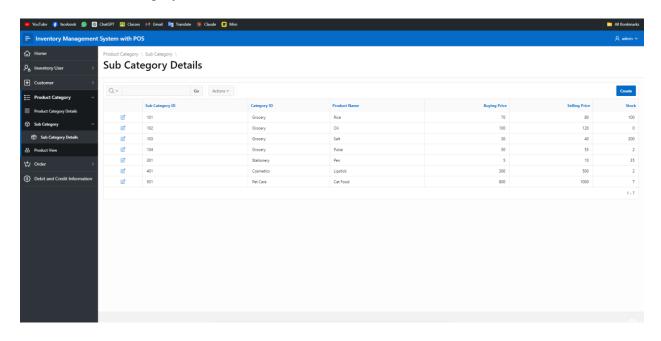
View: 31- VIP Customers

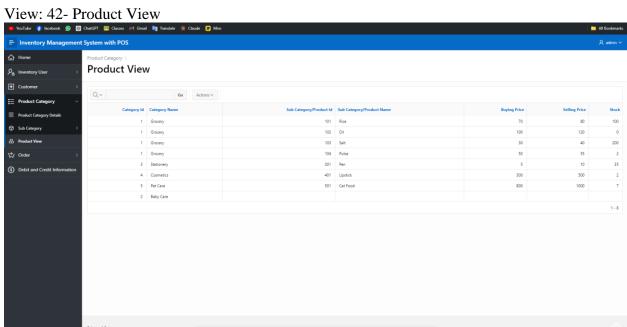


View: 22- Product Category Details

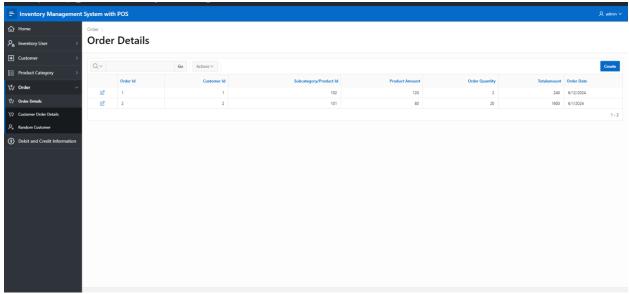


View: 26- Sub Category Details

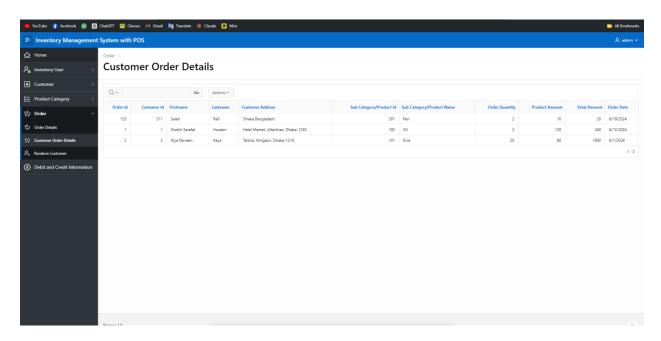




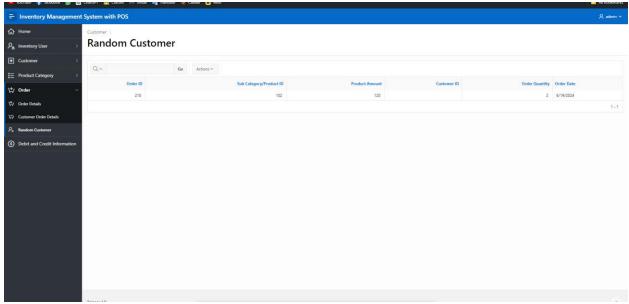
View: 34- Order Details



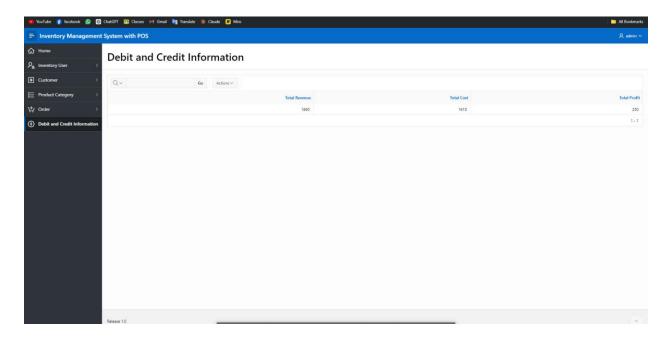
View: 36- Customer Order Details



View: 23- Random Customer



View: 12- Debit and Credit Information



## 6. Authorization and User Role Assignment

#### **User Role Assignment**

User name	Password	Role
admin	1234	Admin
testing	1234	User
sarafat@gmail.com	11222	User
rafi	1111	Admin

# 7. Concluding Remarks

We are happy to complete our project. Because it's the first time we make a complete CRUD operational project. It helps me learn a lot