



## **CSE 302: Database Systems**

### **Section: 3**

### **Project Report**

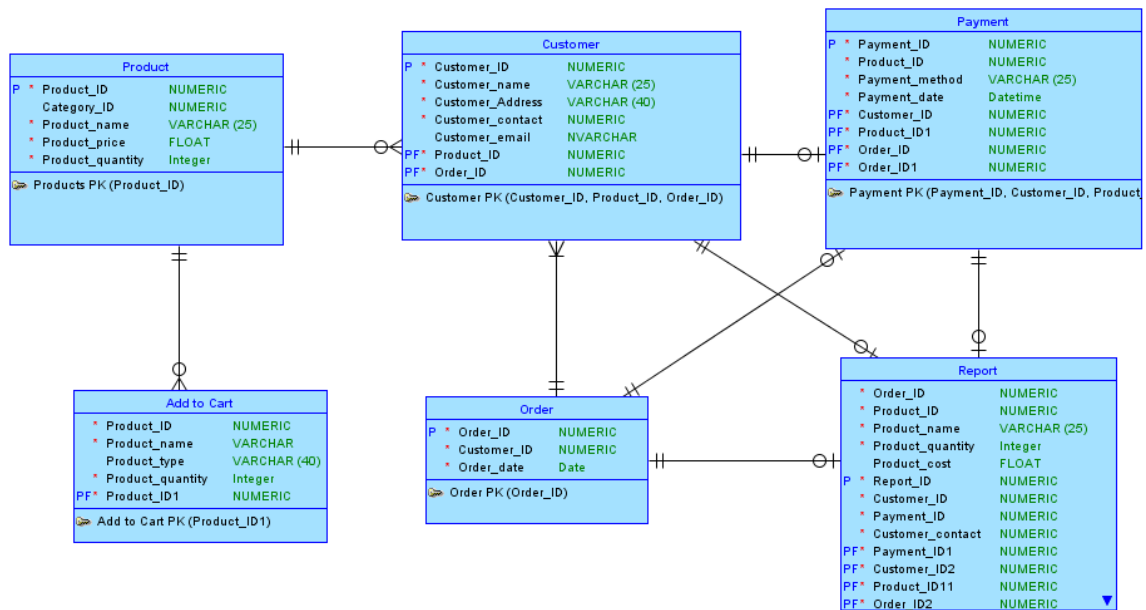
### **Online Shopping System**

**Project URL:** <https://apex.oracle.com/pls/apex/f?p=21432>

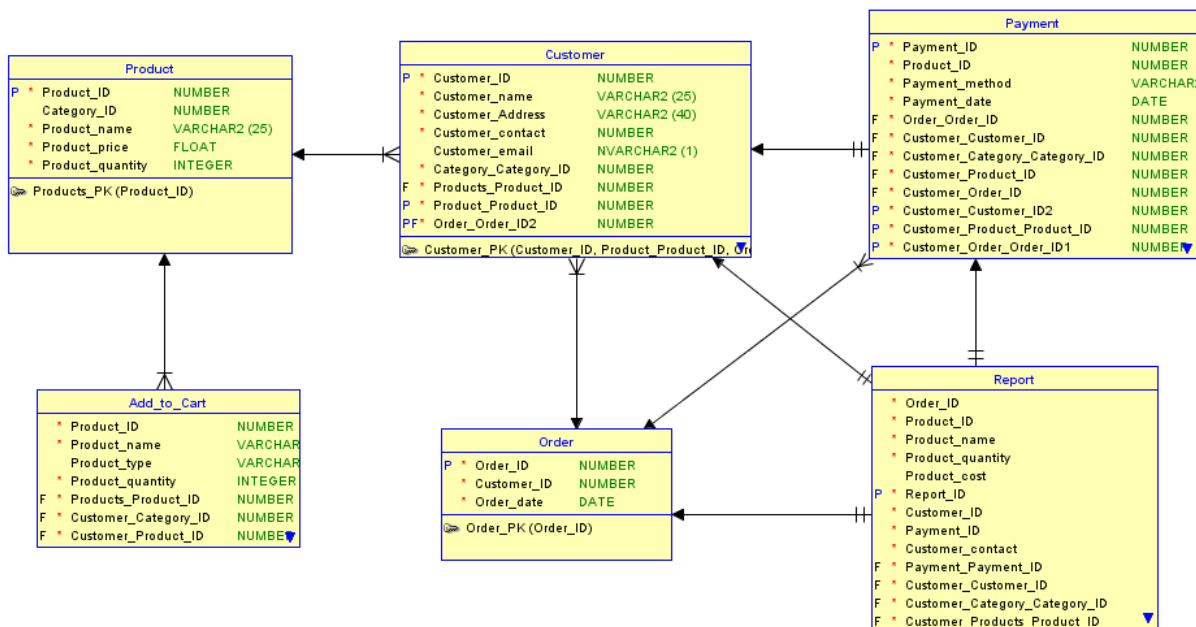
**Submitted by: Group 2**

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## 1. The E-R Model of Online Shopping System:



## 2. The Relational Data Model of Online Shopping System:



The above ER diagram and relationship schema is based upon an online shopping system. We assumed that a customer needs to have a view of the products he adds, the payment, order and the report. Other things are not mandatory to see.

### 3. Implementation checklist

Description	Remarks
Project ID	Application 21432
Workspace Name	Ziaul572
Workspace Email	2020-1-60-118@std.ewubd.edu
Workspace Password	hazard572
Authentication Type	Custom
Username and Password to Login	Username: 2020-1-60-118@std.ewubd.edu Password: hazard572
	Username: admin Password: admin123
	Username: rafi Password: ziaul572
	Username: imran119 Password: reader123
	Username: rupin Password: rupu247
	Username: guest Password: guest123
Uploaded and Displayed Images in Reports	Yes
Implemented Page-wise Authorization	Yes
Number of Reports	4
Number of Forms	3
Number of Master-detail Forms	1
Number of Reports based on Queries, Aggregate Queries	2
Number of Parameterized Reports	3
Number of Graphs/Charts	2
Included any trigger/other feature which is not taught in class. If yes, please explain briefly.	Yes, we have included 2 triggers'
Write the most unique feature/functionality in your application or the page of your application which you are proud of. Explain briefly.	We added different switching mode for logging in as a customer and an administrator.

## 4. Interactive Reports and Form

Report Page Number and Name	Form Page Number and Name	Table
Page Number: 3 Name: Search Product	Page Number: 3 Name: Customer Form	Customer_II
Page Number: 32 Name: Add New Product	Page Number: 32 Name: Product Form	Product_II
Page Number: 47 Name: Order	Page Number: 47 Name: Order Form	Order_II
Page Number: 52 Name: Invoice	Page Number: 52 Name: Invoice Form	Invoice_II
Page Number: 56 Name: Order Detail Information	Page Number: 56 Name: Order Detail info Form	Order_Details_II

**Doorpost Store** rupin

Home **Add New Product** Products All Product customer Order Order DATA Invoice Order Details information Order Amount Display Order Amount Search

### Add New Product

Add New Product

Product ID

Product Name

Product Price

File Image Product Blob

Choose File

Cancel Create

Figure 4.1: Add new product form




Doorpost Store											
Home	Add New Product	Products	All Product	customer	Order	Order DATA	Invoice	Order Details Information	Order Amount	Display Order Amount	Search
Products											
Product Id	Product Name		Product Price		Image						
bakery-02	Dabur Honey		375								
outfit-07	Baby Boy Shoes		550								
Dairy-01	Milk Vita Butter		200								

Figure 4.2: Product Report

Doorpost Store											
Home	Add New Product	Products	All Product	customer	Order	Order DATA	Invoice	Order Details Information	Order Amount	Display Order Amount	Search


**All Product**

Order By  
Product Name

25

Aarong Dairy UHT Chocolate Milk


dairy-02



25

Aarong Dairy UHT Strawberry Milk


dairy-03



55

Aloe vera gel

selfcare-04



55

Baby Boy Shoes

outfit-07




Figure 4.3: Card

**Doorpost Store** rupin

Home Add New Product Products All Product **customer** Order Order DATA Invoice Order Details Information Order Amount Display Order Amount Search

### customer

customer

customer ID

Customer Name

Customer Address

Customer Email

Customer Contact

Cancel Create

Release 1.0 App 21432 Page 46 Session Debug Quick Edit Customize

Activate Windows  
Go to Settings to activate Windows.

Figure 4.4: Customer Form

**Doorpost Store** rupin

Home Add New Product Products All Product customer **Order** Order DATA Invoice Order Details Information Order Amount Display Order Amount Search

### Order

Order

Order ID

Customer Id

Order Date

Cancel Create

Release 1.0 App 21432 Page 47 Session Debug Quick Edit Customize

Activate Windows  
Go to Settings to activate Windows.

Figure 4.5: Order Form

**Doorpost Store** rupin

Home Add New Product Products All Product customer Order **Order DATA** Invoice Order Details Information Order Amount Display Order Amount Search

### Order DATA

Order ID	Customer ID	Order Date
O-002	C-001	5/13/2022
R_247	rupu_247	5/13/2022
O-001	C-101	8/30/2021
L_119	imran_119	5/13/2022

1 - 4

Release 1.0

Figure 4.6: Order Data report

**Doorpost Store** rupin

Home Add New Product Products All Product customer Order Order DATA **Invoice** Order Details Information Order Amount Display Order Amount Search

### Invoice

Order Id	Order Date	Customer Id	Amount
R_247	5/13/2022	rupu_247	390
L_119	5/13/2022	imran_119	2000
			Total 2

Release 1.0

Figure 4.7: Invoice Report

## 5. Master-Detail Form

Page Number and Name	Master Table (Parent)	Detail Table (Child)
Page Number: 48 Page name: Order Data	Order_II	Product_II, Customer_II
Page Number: 3 Page name: Search Product	Product_II	Order_II

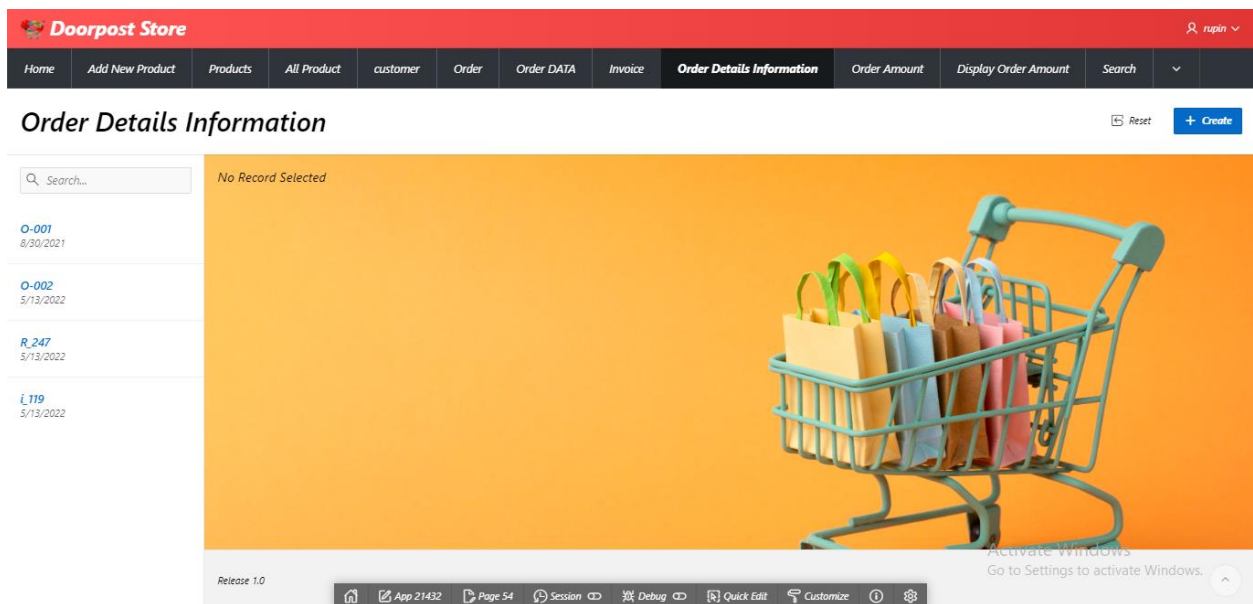


Figure 5: Order Details Information



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

Page Number and Name	Query Type	Report description
Page Number: 1 Page Name: Home	Multi-Table and Aggregate	This report shows options to view products or orders.
Page Number: 42 Page Name: Sign_Up_Page	Aggregate	This report inputs the customers data in the table.
Page Number: 3 Page Name: Search Product	Aggregate	This report shows the total number of product
Page Number: 39 Page Name: All Products	View and Aggregate	This report shows every products in the database.
Page Number: 63 Page Name: Customer Info	View and Aggregate	This report shows every customer info stored in the database.
Page Number: 47 Page Name: Order	View and Aggregate	This report creates order using product and customer id
Page Number: 56 Page Name: Order Detail Information	View and Aggregate	This report shows every order created by customers.

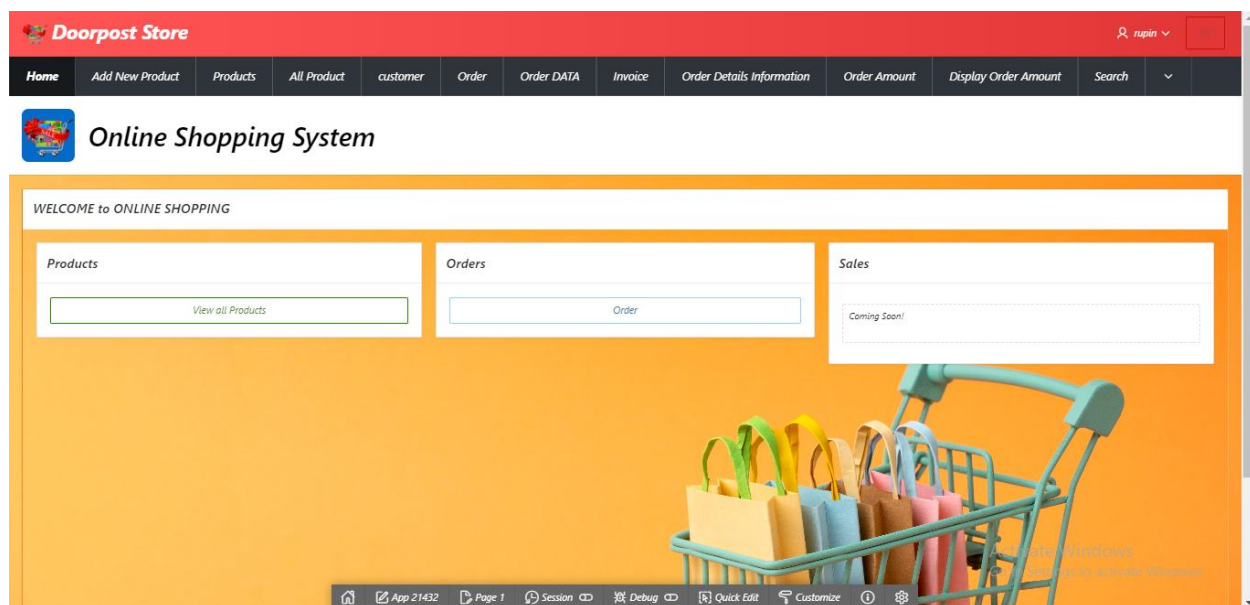


Figure 6.1: Home page

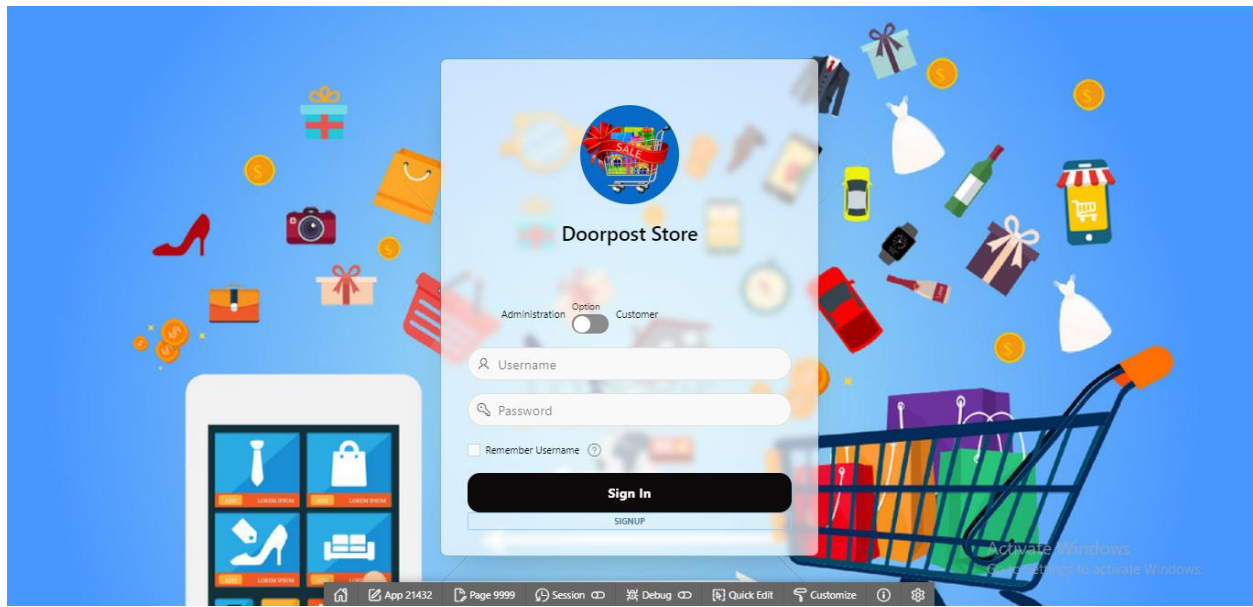


Figure 6.2: Sign-in page

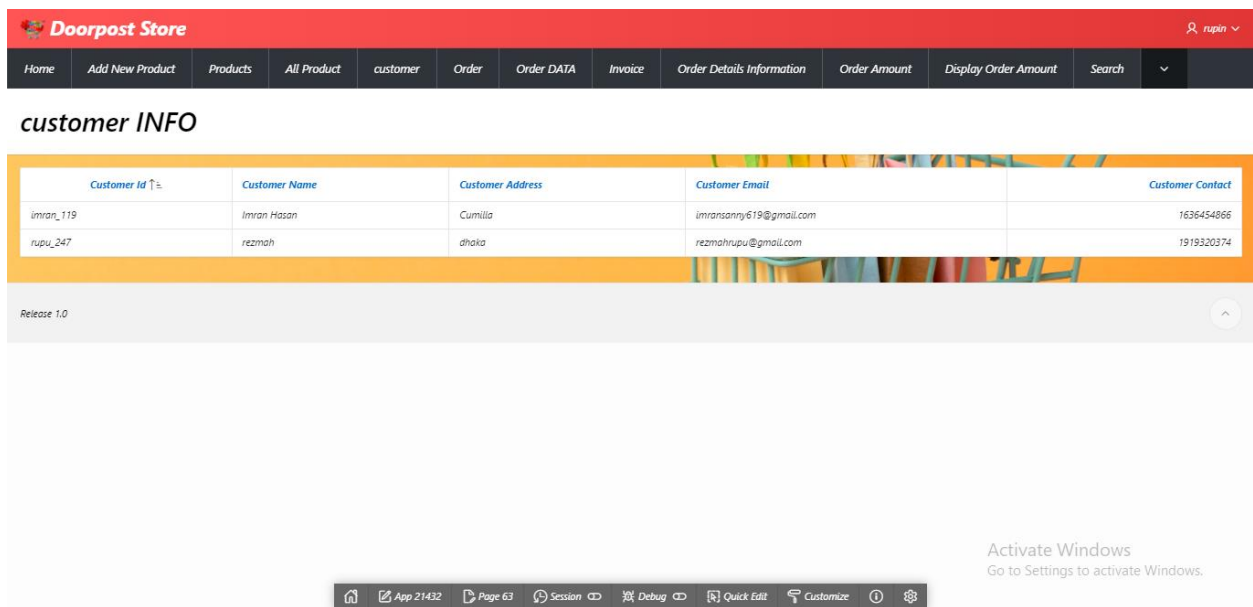


Figure 6.3: Customer Info

## 7. Parameterized Reports

Page Number and Name	Given Input	Report description
Page Number: 3 Page Name: Product Search	Product_ID	This report shows the Products information by the given product_id
Page Number: 54 Page Name: Order Detail Search	Product_ID, Customer_ID, Order_ID	This report shows the Order created by the customer using product_id, customer_id and order_id
Page Number: 62 Page Name: Customer Search	Customer_ID Order_ID	This report shows the Information of every customer by using Customer_id or Order_id.

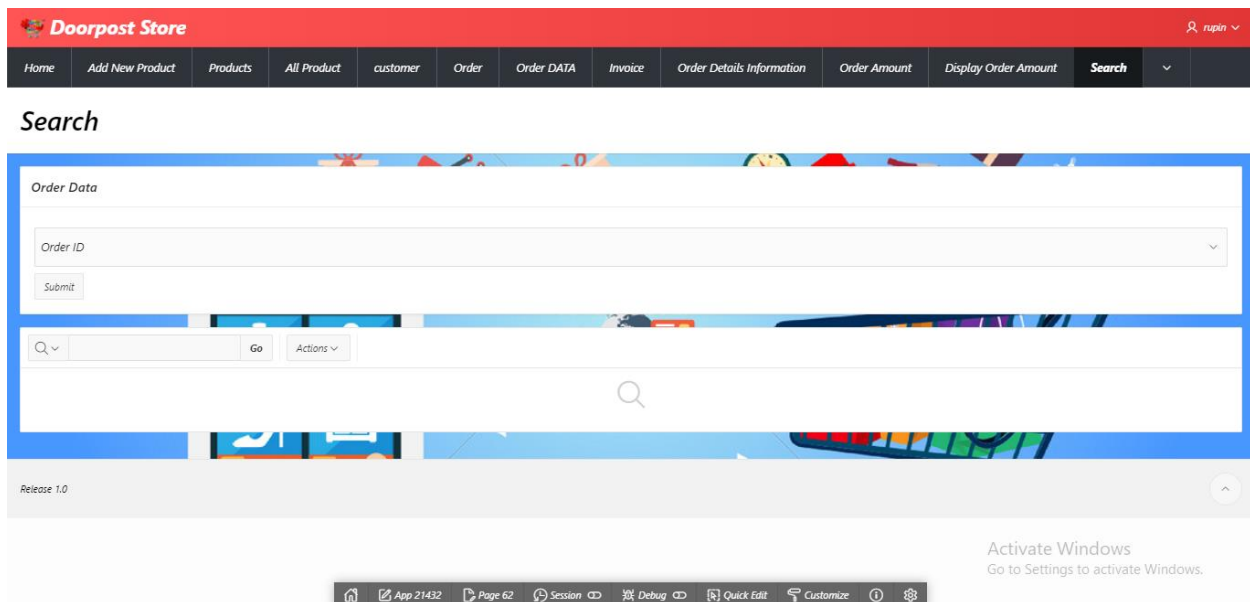


Figure 7: Search

## 8. Authorization and User Role Assignment

### User Role Assignment

User name	Password	Role
admin	admin123	Administrator
guest	guest123	Contributor
rafi	Ziaul572	Viewer
imran	reader123	Contributor
customer	cs123	Reader

### Page-wise Authorization Information

Page number and name	Authorization Level
P42: Sign_Up_page	Public
P1: Home	Contribution rights
P32: Add new Products	Administration Rights
P39: All Products	
P3: Search Product	Contribution Rights
P47: Order	Contribution Rights
P52: Payment	Contribution Rights
P56: Order Details Information	Administration Rights
P63: Customer Info	Administration Rights
P62: Search Customers	Administration Rights
P48: Order DATA	Administration Rights
P10000: Administration	Administration Rights

## 9. Concluding Remarks

Based on this project, we learned about back-end and front-end of a web-based application using oracle apex. By Implementing proper query and styling properties we were able to carry out a fully functional application. It helped us learning and discovering a lot new features such as logo, background image, badges, adding videos etc. We also used a little bit of CSS and HTML for designing the project. It will also help us in our career development.