

**CSE 302: Database Systems**

**Section: 3**

**Project Report**

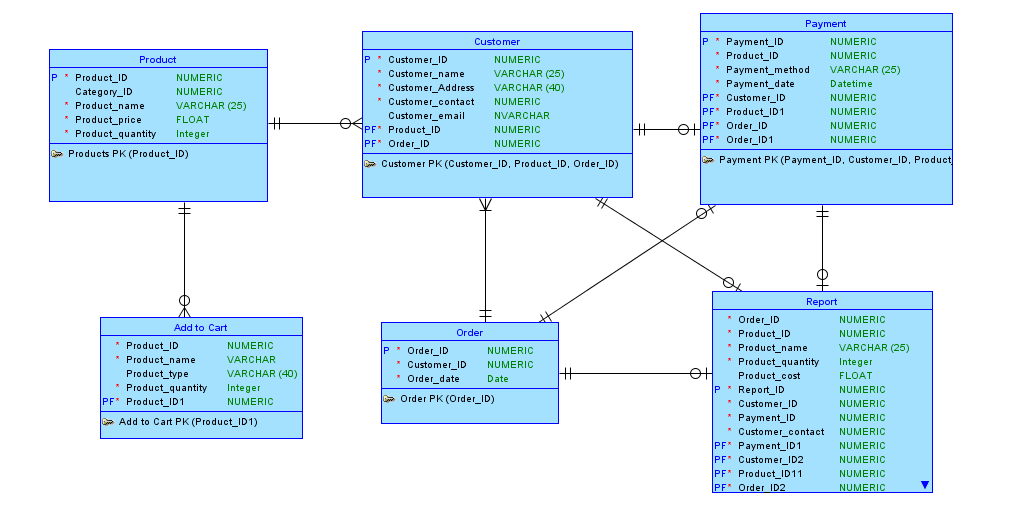
**Online Shopping System**

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

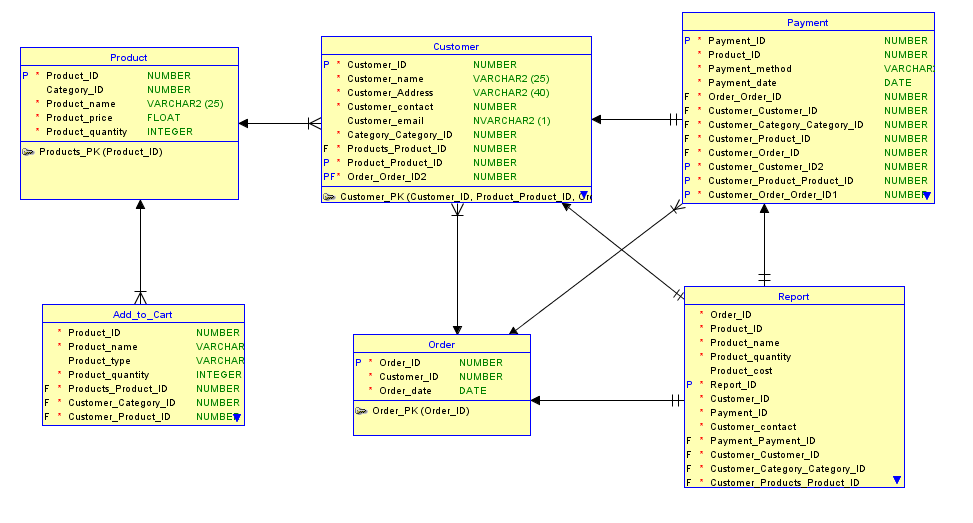
**Submitted by: Group 2**

|  |  |  |
| --- | --- | --- |
| ***Student ID*** | ***Student Name*** | ***Contribution*** |
| 2020-1-60-118 | Ziaul Haque Rafi | 33.33% |
| 2020-1-60-119 | Imran Hasan | 33.33% |
| 2020-1-60-247 | Rezmah Jemima Rupin | 33.33% |

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



1. 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.

1. 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. |

1. 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 |

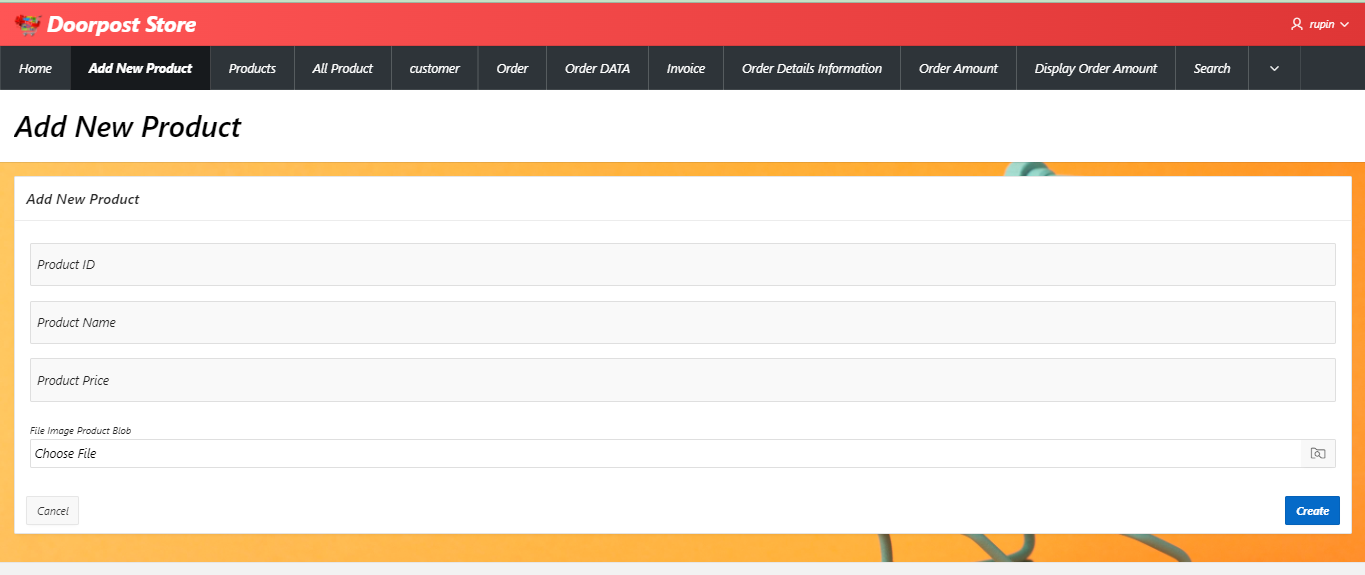


Figure 4.1: Add new product form

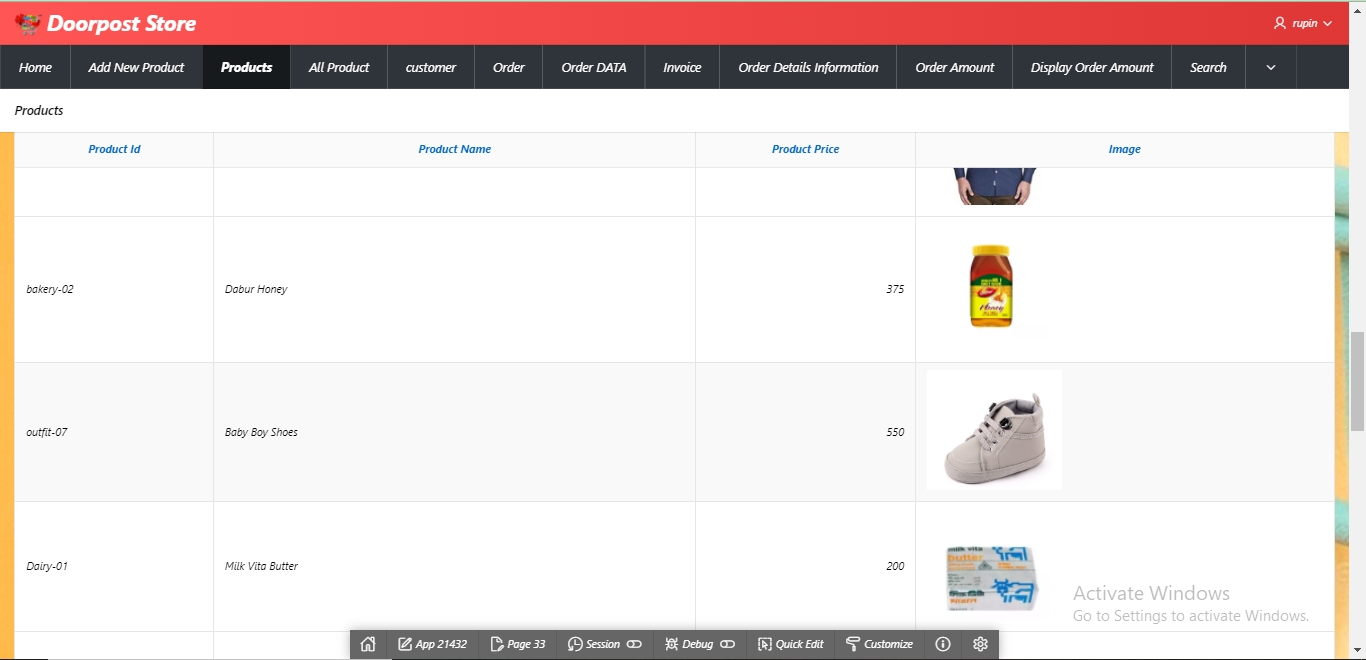


Figure 4.2: Product Report

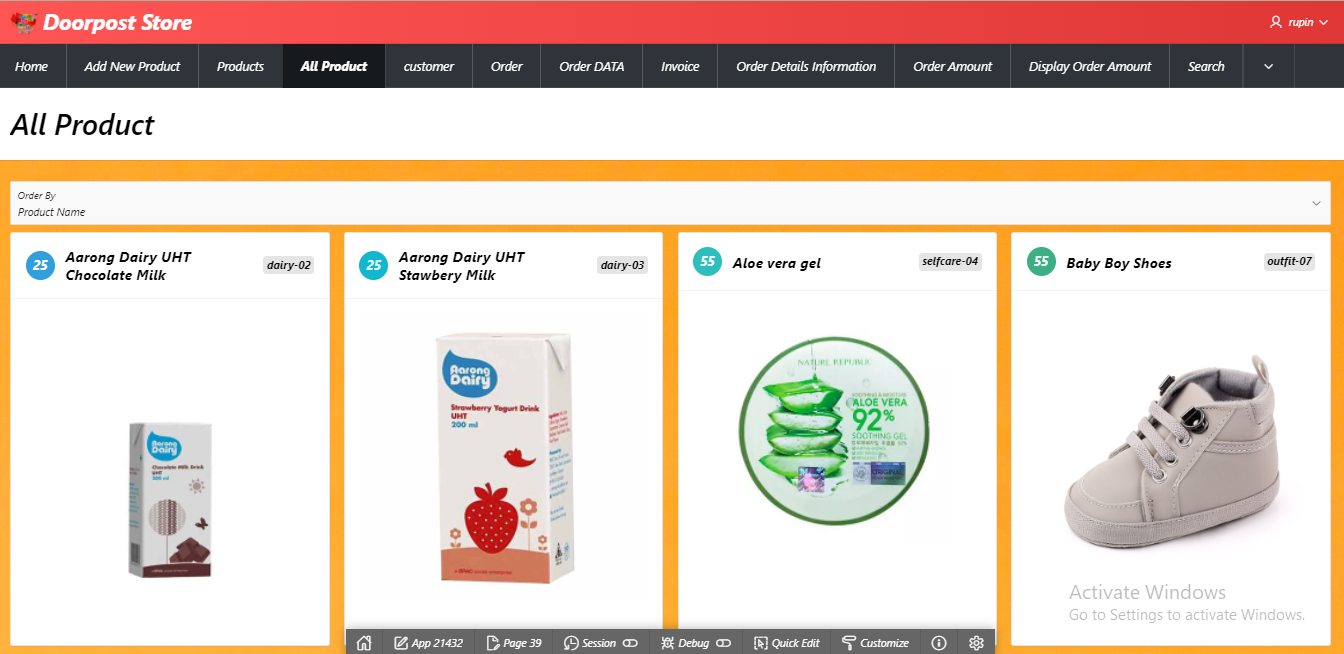


Figure 4.3: Card



Figure 4.4: Customer Form

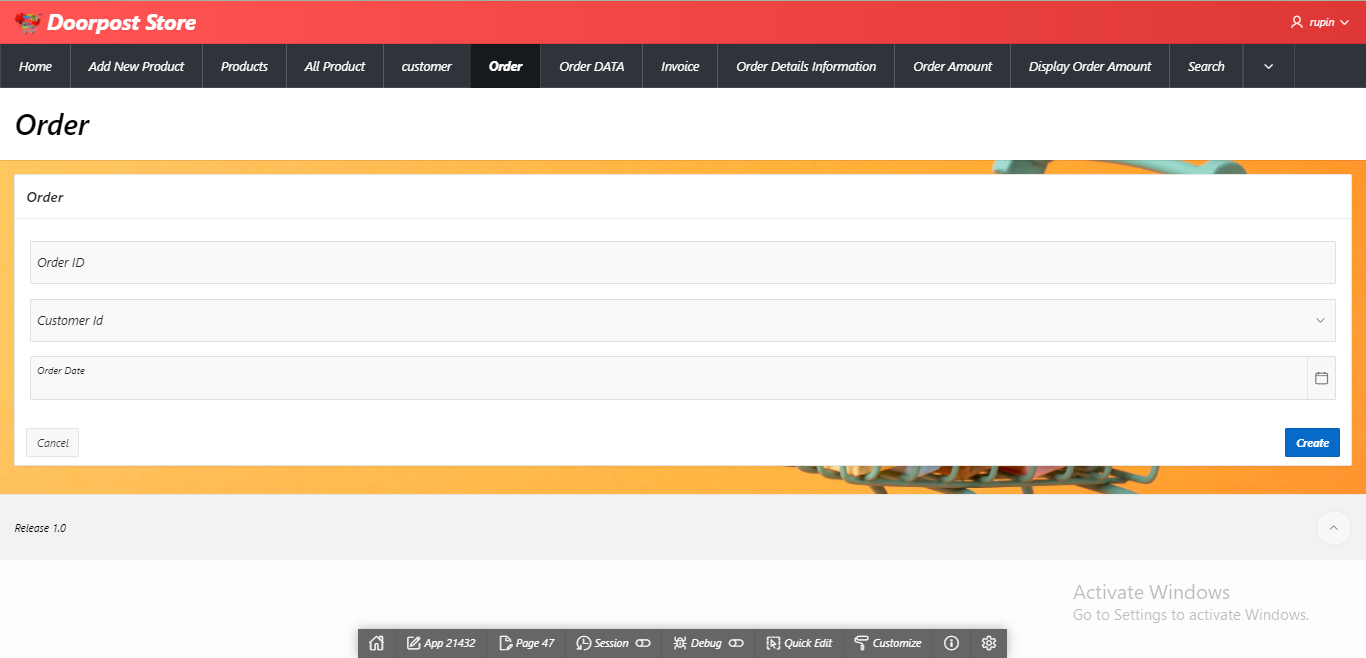


Figure 4.5: Order Form

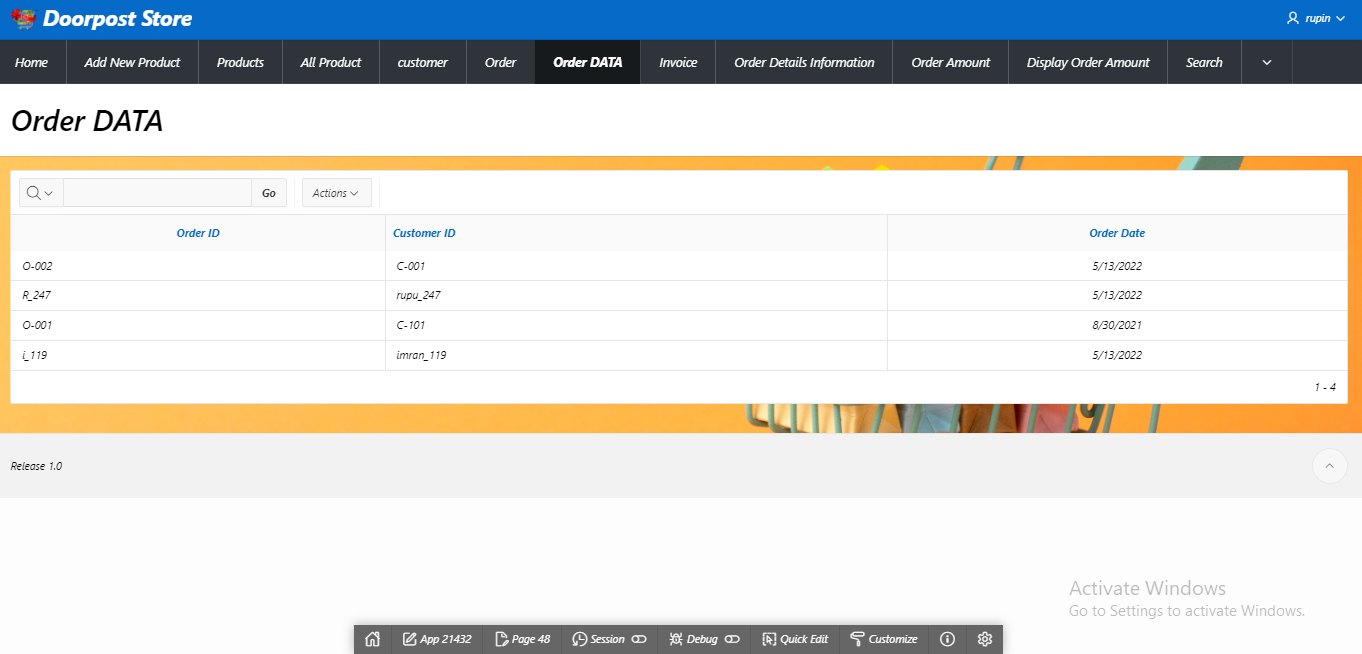


Figure 4.6: Order Data report

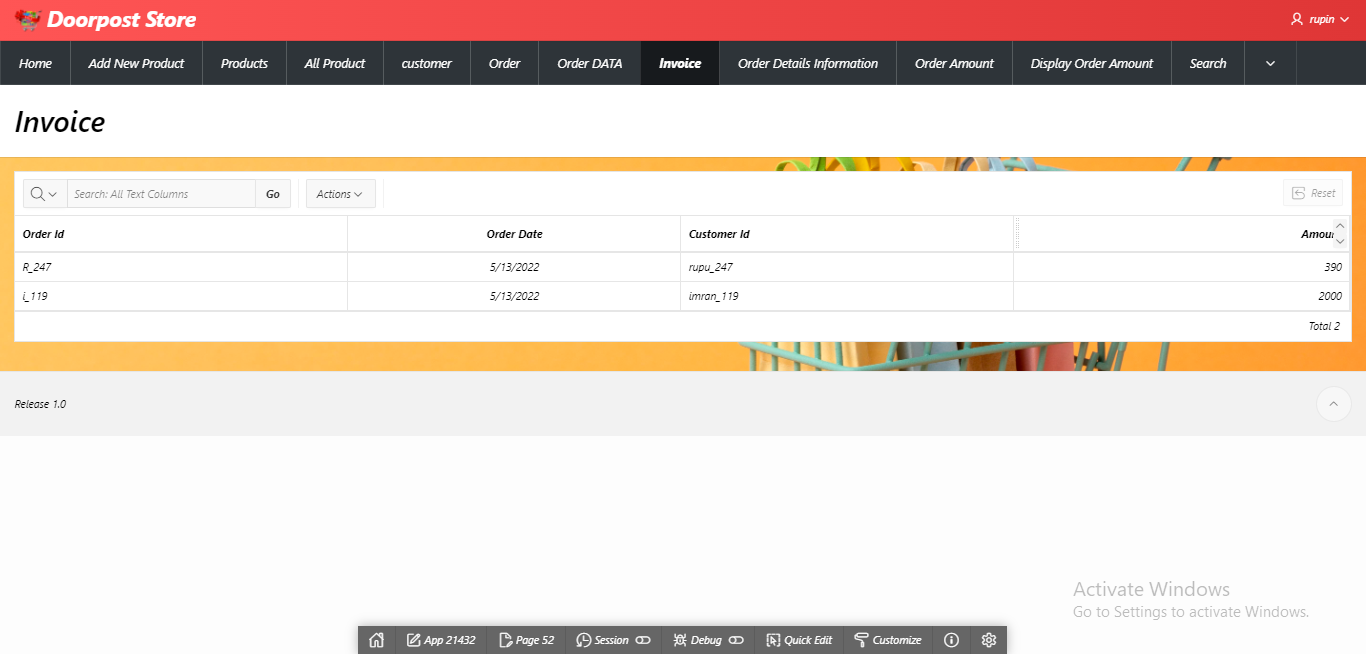


Figure 4.7: Invoice Report

1. 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 |

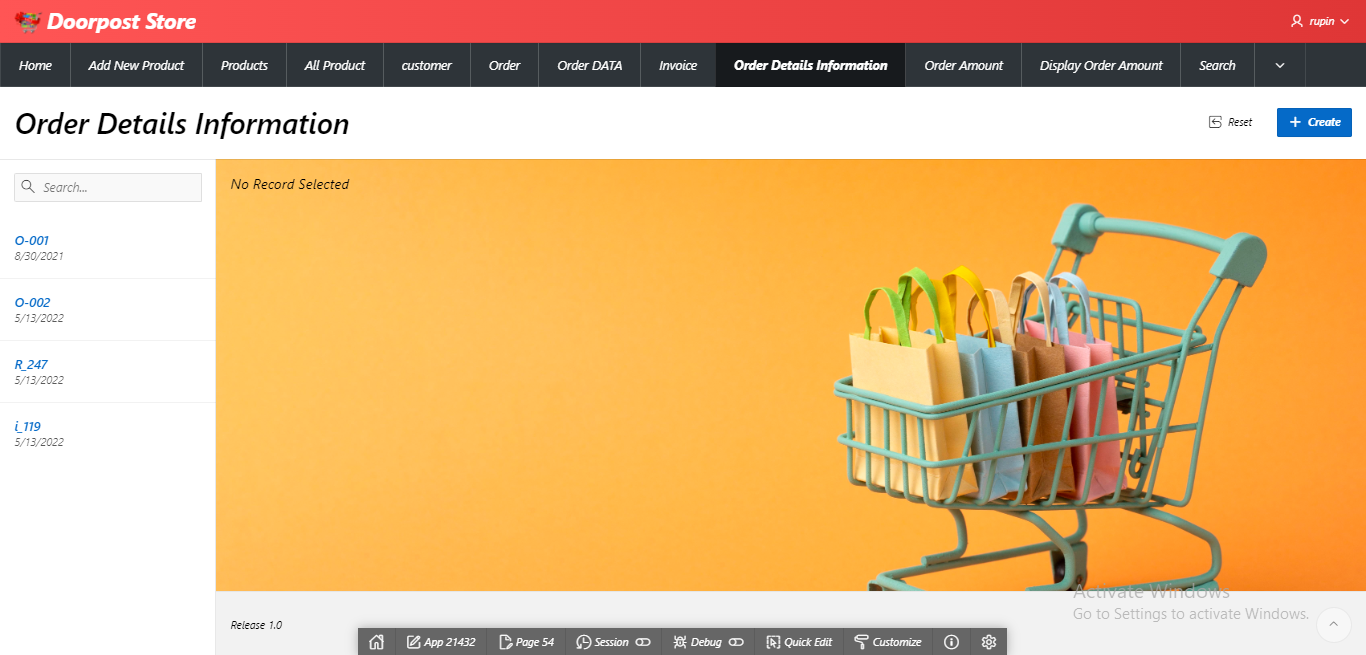


Figure 5: Order Details Information

1. 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. |

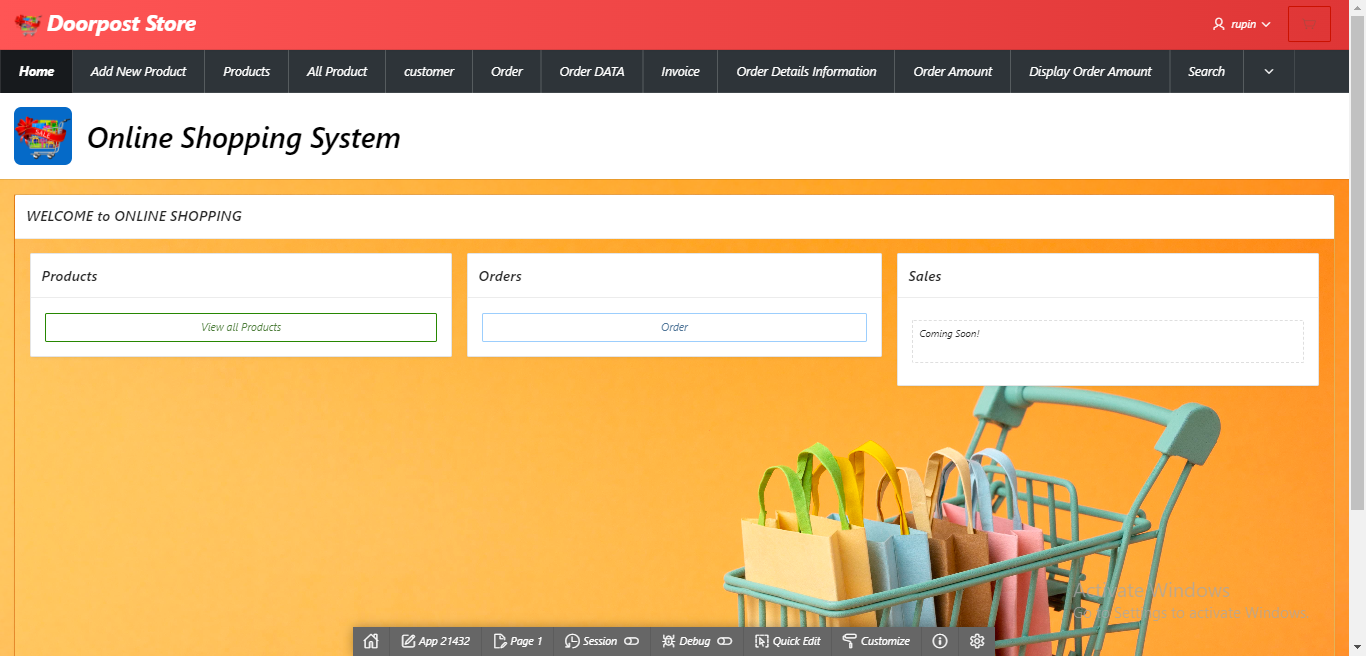


Figure 6.1: Home page

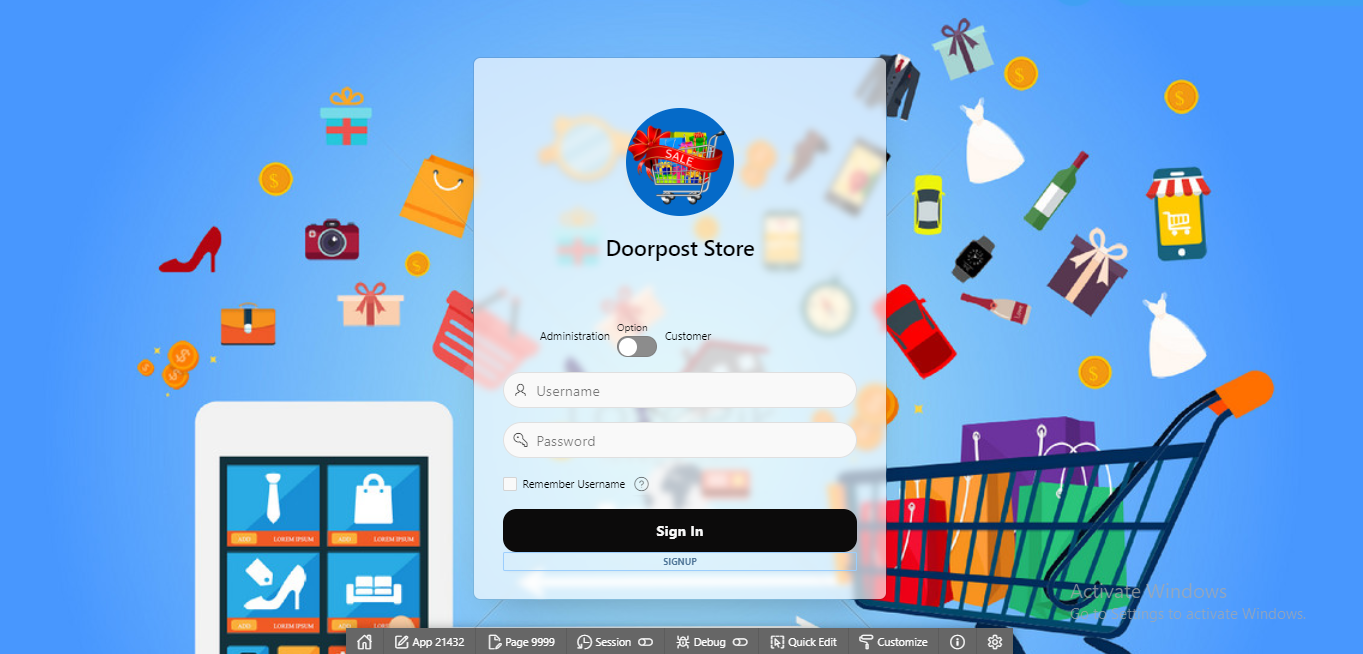


Figure 6.2: Sign-in page

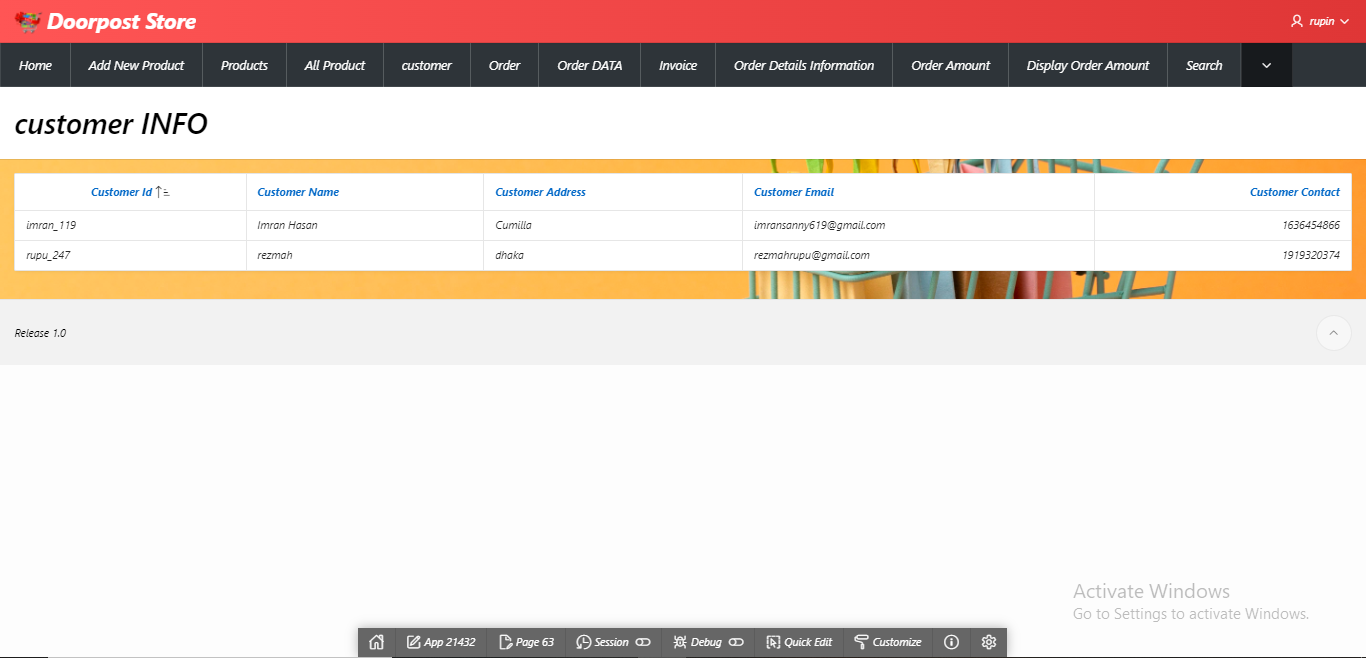


Figure 6.3: Customer Info

1. 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 Cutomer\_id or Order\_id. |

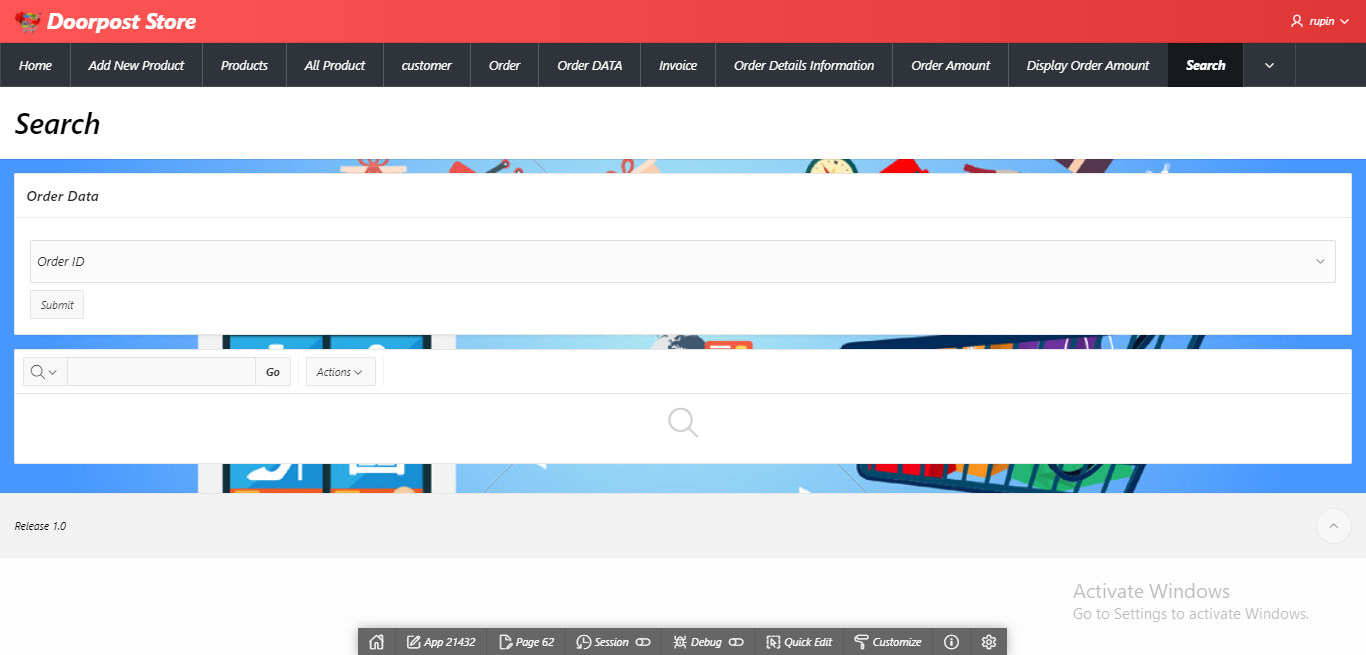


Figure 7: Search

1. 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 |

1. 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.