CS313: Project Report

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1 Introduction

For this project, we decided to make a Wholesale Management System. This is a system that includes all the functionalities that may be required by a Wholesale Seller. This includes having a list of suppliers, customers and products that the seller has, tracking shipments coming from a supplier and going to a customer, their respective payments and transaction details, and much more.

2 ER Model

See figure 1

3 Relation Database Design

See Figure 2

4 Languages and Technologies used

This project uses JSP and CSS for the frontend, J2EE for the backend and MySQL for database management.

5 How to Use

Create a user named 'WMS' with password 'Abcd@123' in MySQL with database 'wms_system'. Give this user the privileges to this table. We are using Tomcat 9 for the server. When running the project from Eclipse using 'Run on Server' option, it will ask for login user ID and password which is the same as one above. See figure 3.
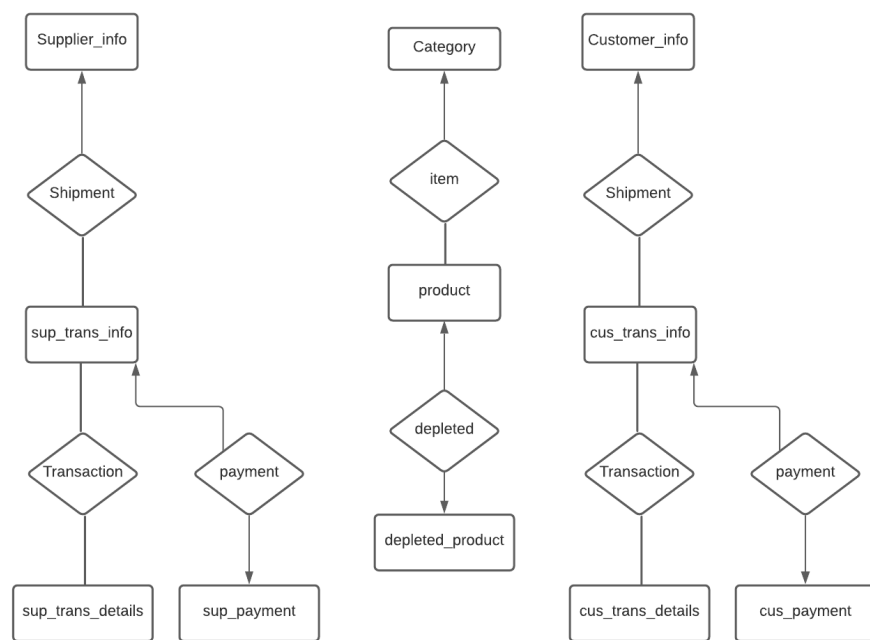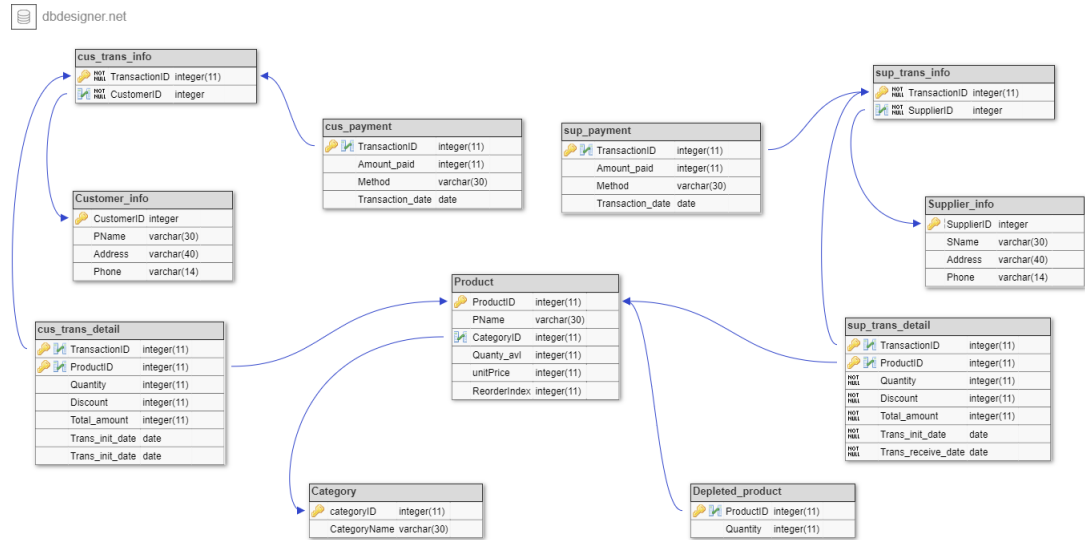
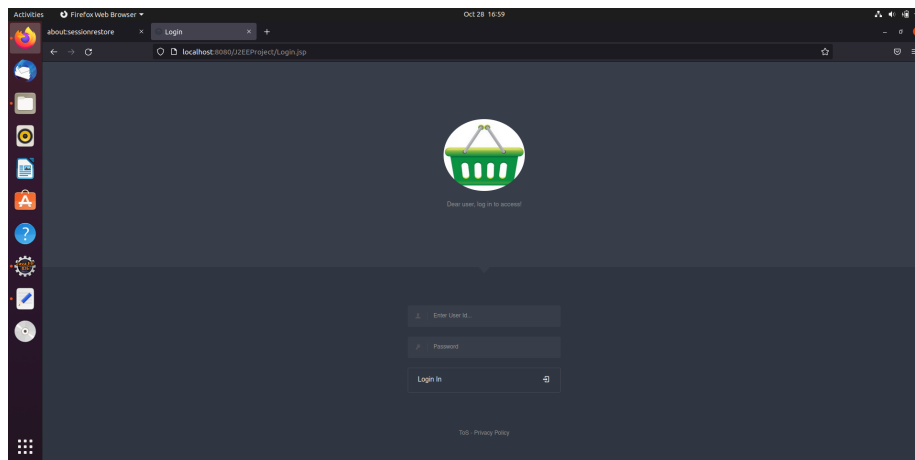Figure 1: ER Model
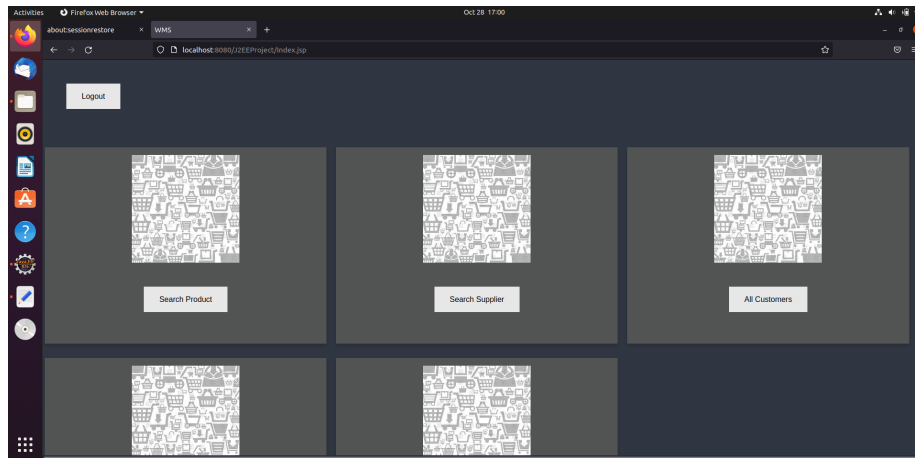
Figure 2: Relation Database Design

Figure 3: Login Page

Figure 4: index.jsp

6 Interface Designs

After logging in, you are sent to index.jsp file which has a logout button and can take you to see Product, Supplier, Customer, Payment Details and Shipment Details. See figure 4.

6.1 Product Page

In the product page will show you all the category of products. It contains a 'Show Depleted' button, which you show you all the depleted products, i.e. product that are in a quantity less a certain amount, and is an indicator to that there is a need for these products to be bought from a supplier. See figures 5, 6.

When you click on a category, it will show all the porducts of that category and a button 'Add Product' with which you can add products of that category in the database. See figure 7.

The page also a 'Add Category' button where you can add to category of products in the database. See figure 8.

6.2 Supplier Page

In the supplier page, all the suppliers will be shown and there is a button 'Add Supplier' from which you can add a new supplier. See figures 9, 10.

6.3 Customer Page

In the customer page, all the customer will be shown and there is a button 'Add Customer' from which you can add a new customer. See figure 11, 12
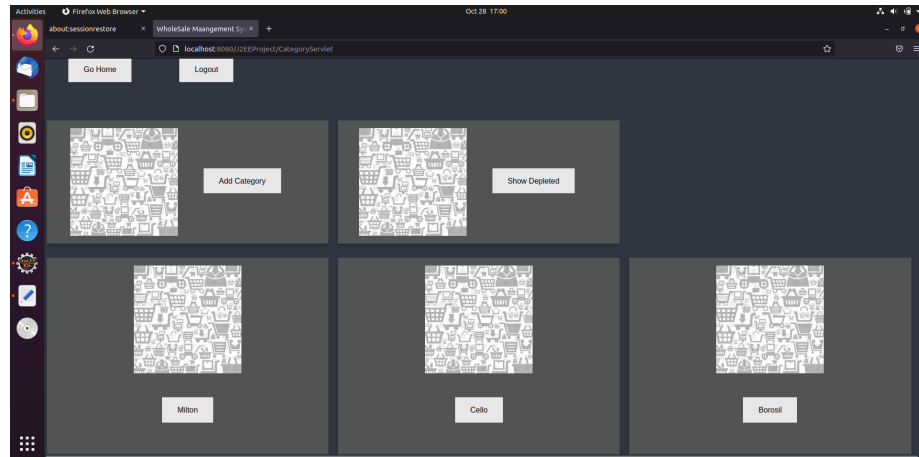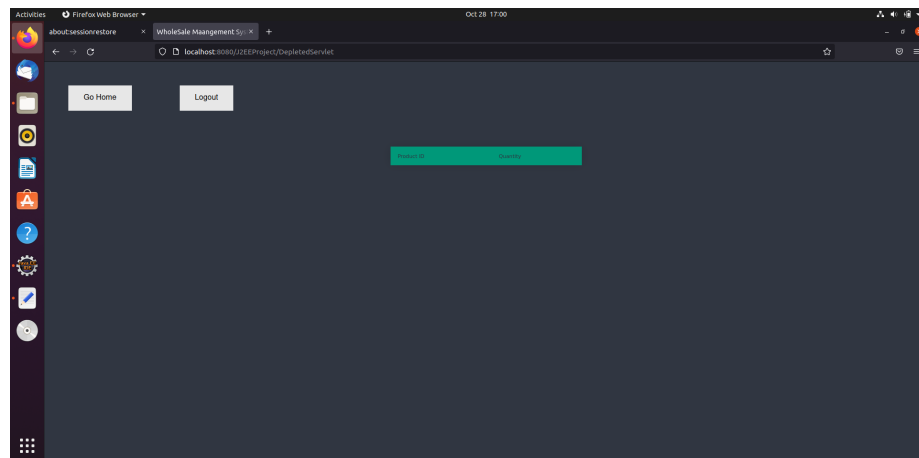
Figure 5: Category Page
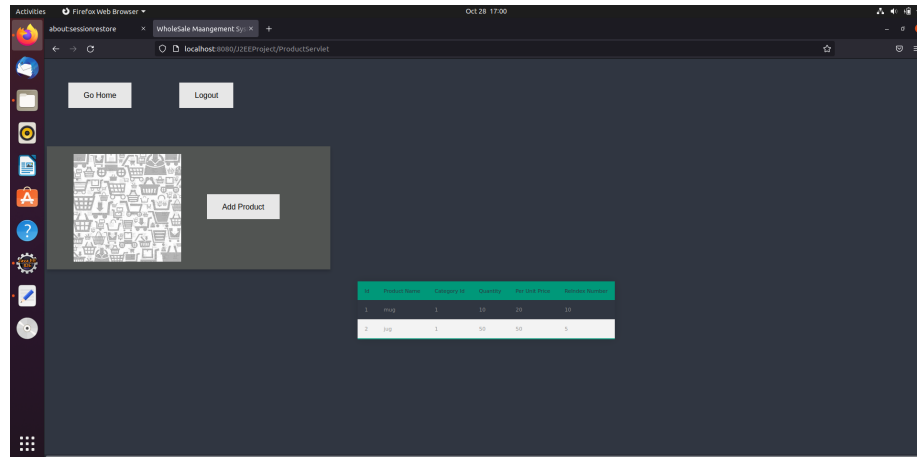

Figure 6: Depleted Products
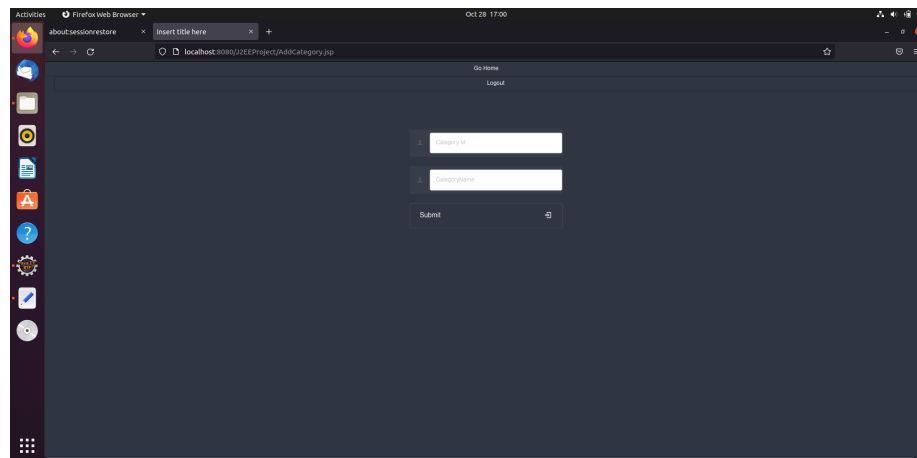
Figure 7: Category Page
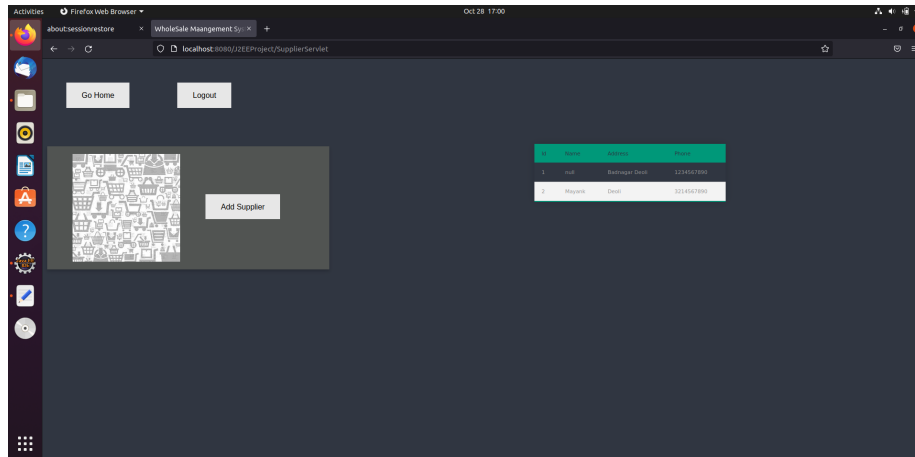

Figure 8: Add Category Page
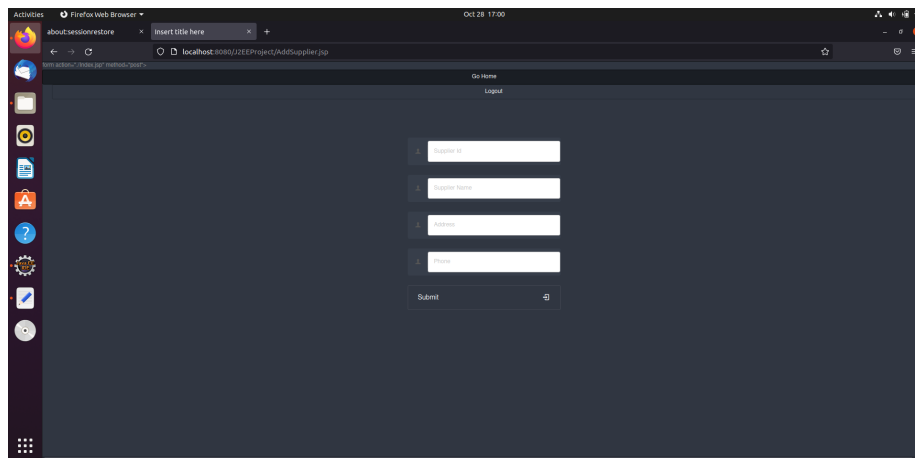
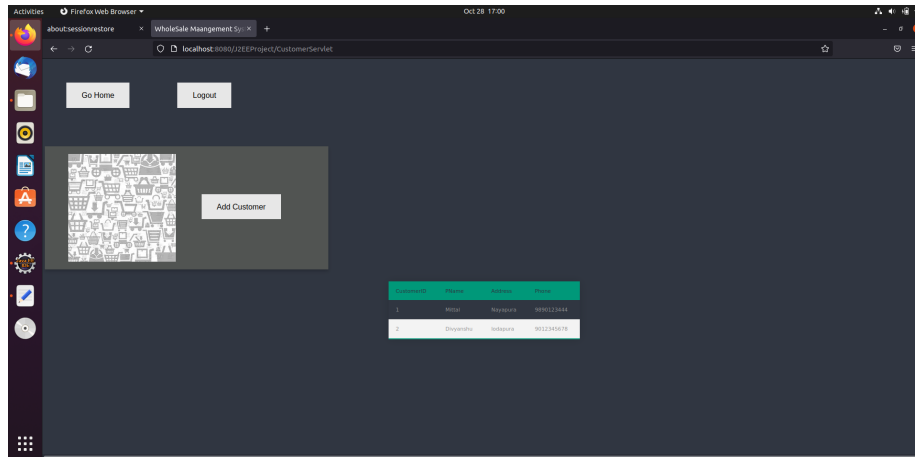Figure 9: Supplier Page

Figure 10: Add Supplier
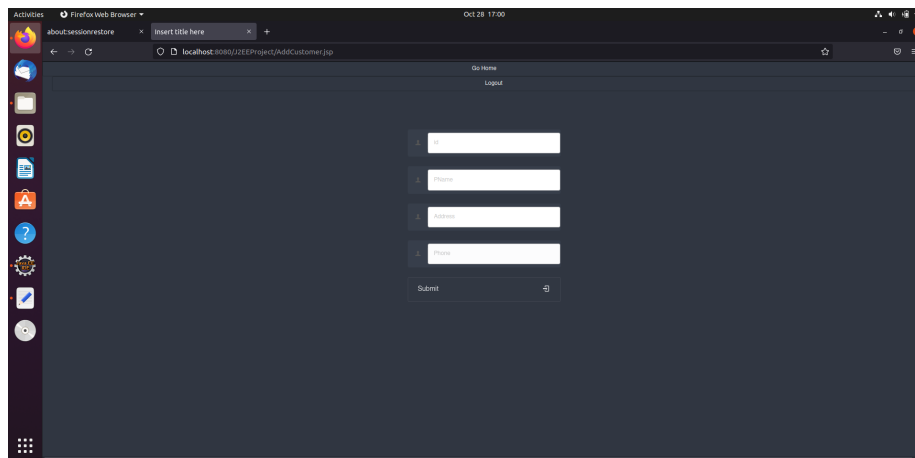
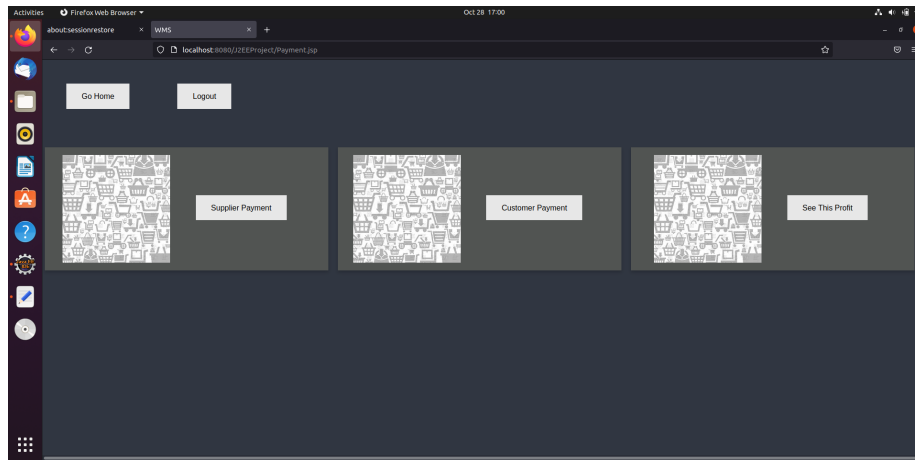Figure 11: Customer Page

Figure 12: Add Customer Page

Figure 13: Payment Details Page

6.4 Payment Details Page

In this page, three buttons are shown 'Supplier Payment', 'Customer Payment' and 'See Profit'.See figure 13
Supplier payment will show all the transaction information of the supplier. See figure 14.
Customer payment will show all the transaction information of the customer. See figure 15.
See Profit will show the profits of this month. See figure 16

6.5 Shipment Details Page

This page have two buttons, 'Supplier Shipment' and 'Customer Shipment'. See figure 17
On clicking the 'Supplier Shipment' button, we are taken to SupplierShipServlet. This shows all the transaction details. Here two buttons will be shown 'Add Supplier Shipment' which add supplier shipment, and 'Add Transaction Details' which helps us add transaction details. See figures 18, 19.
On clicking the 'Customer Shipment' button, we are taken to CustomerShipServlet. This shows all the transaction details. Here two buttons will be shown 'Add Customer Shipment' which add customer shipment, and 'Add Transaction Details' which helps us add transaction details. See figure 20

7 Conclusion

With this project we have created a system for a wholeseller to log all of his data on this system. With the help of this system, he will not have to log all his
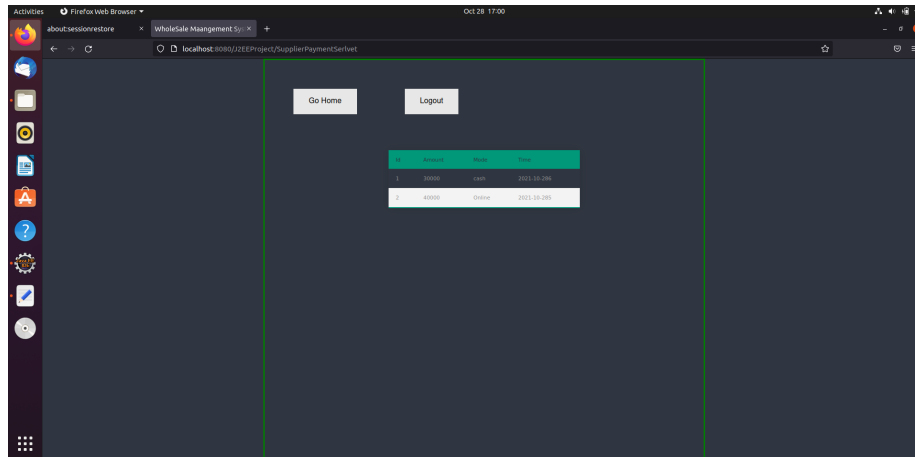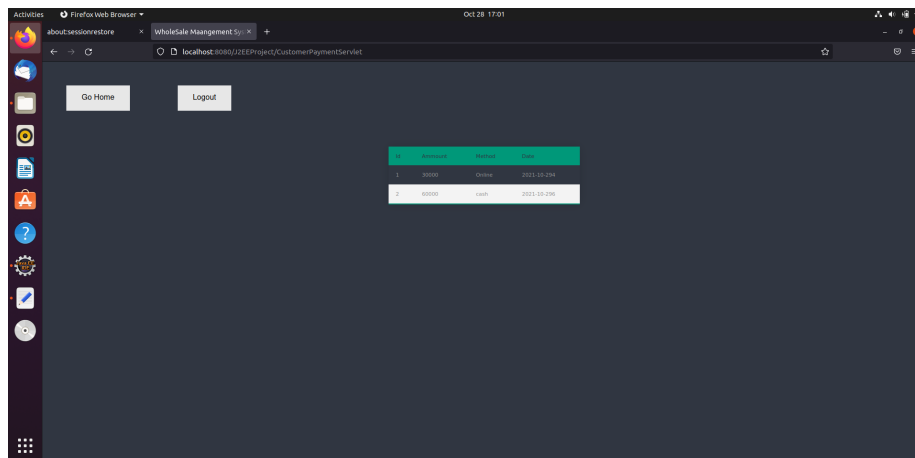
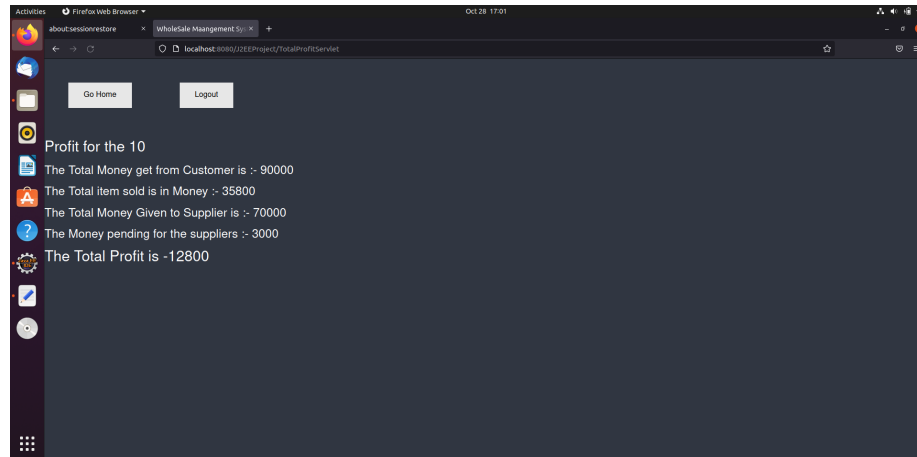Figure 14: Supplier Payment Page

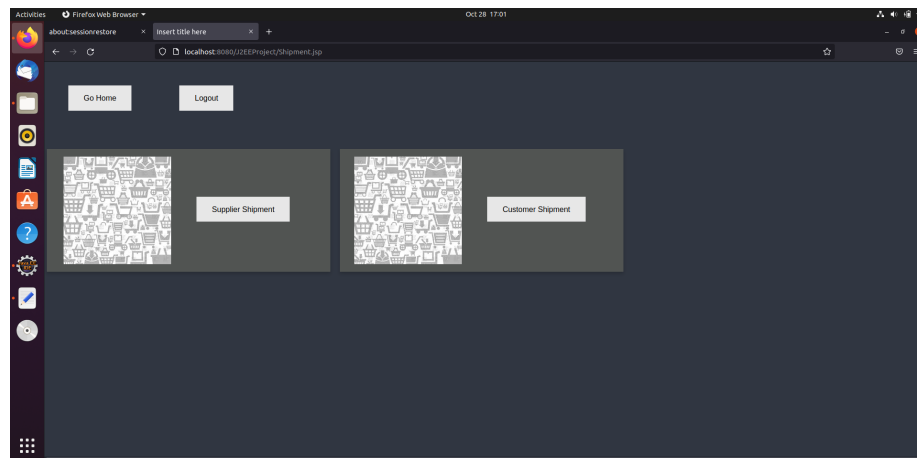Figure 15: Customer Payment Page

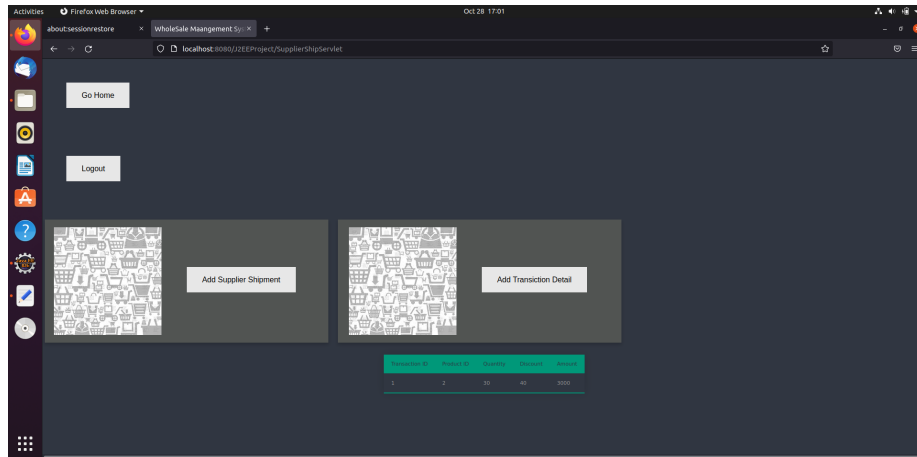Figure 16: Profit Page

Figure 17: Shipment Page
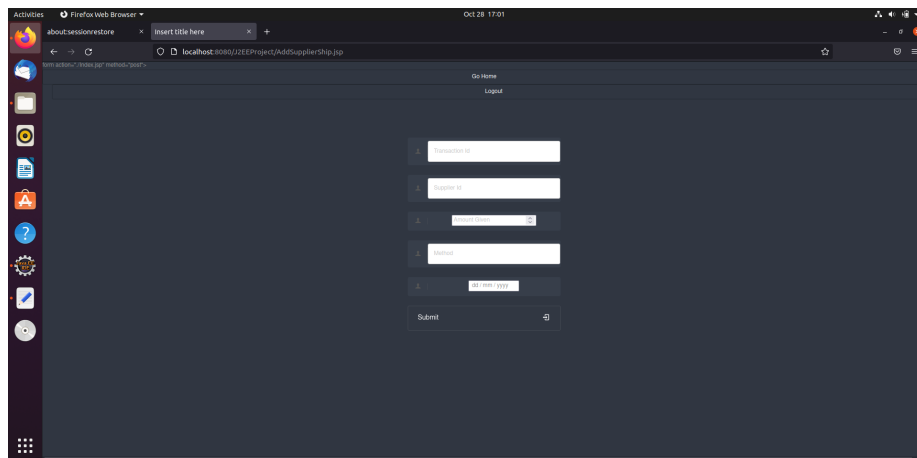
Figure 18: Supplier Shipment Page
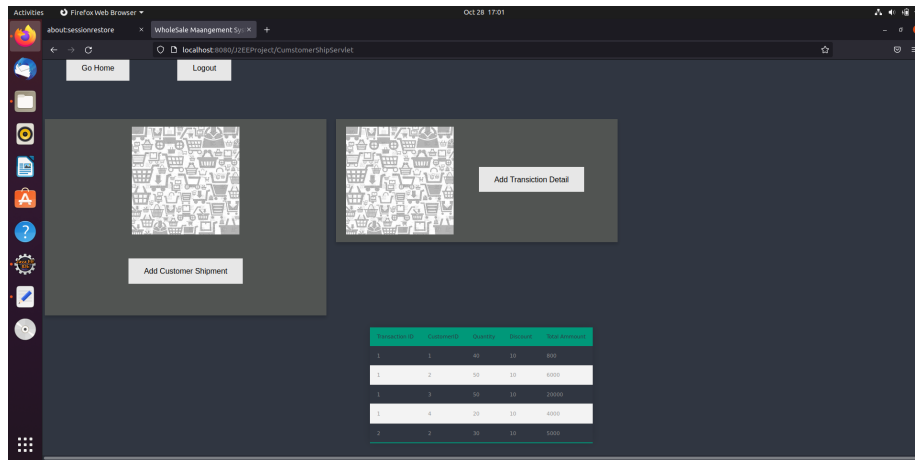

Figure 19: Add Supplier Shipment Page

Figure 20: Customer Shipment Page

data on paper. So, entering and retrieving data will be more secure and easier.