**Purchase Order**

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**Summary of the Application**

This application mimics some of the features of an E-Commerce Website. There are two kinds of users who have access to the application. The administrator and the customer. A User can register themselves as a customer to purchase products displayed to the user by the application. The customer can then select the required products to place an Order where they can edit and delete the order or the products from the order. The administrator has the ability to delete or edit the customer details, product details and delete order. The order cannot be edited by the admin. The product quantity is updated based on every order placed or deleted.

**Functional Flow of the Customer**

1. A user registers themselves as a Customer.
2. The new customer is added to the Customer table in the RDB and the credentials are added to the User Table
3. The User can now log in to the application as a Customer.
4. The Customer is redirected to the Place Order page.
5. The Order Page displays the list of products in the inventory.
6. The Customer can now select the required products and enter the order quantity for every product selected and place the order.
7. The Customer can navigate to the Orders Placed Page to check the list of orders placed by him/her.
8. The Customer can edit the order by clicking the order ID.
9. The products for the order selected are listed.
10. The customer can edit the product quantity or delete a product from the list.
11. The order is edited and the changes in the product inventory are also done accordingly.

**Functional Flow of the Admin**

1. The admin can log in to the application using his credentials.
2. The admin can view the list of customers and can also edit the customer details.
3. The admin can view the list of products in the inventory and can edit the product details.
4. The admin can add products to the inventory.
5. The admin can delete orders placed.

**Test data**

**Customer Login Credentials:**

Username: Jsinogo  
Password: Password1

**Admin Login Credentials:**

Username: admin   
Password: Adminpass1

**Entities:**

User – The login credentials are stored as a User Object in the User Table

Customer - The customer details are stored as Customer object in the Customer Table. A Customer can create many orders.

Product - The product details are stored as Product object in the Product Table

Order - The order details are stored as an Order object in the Order Table.

Order Line - The relationship between product and orders is many to many. This class serves as bridge between order and product

**Helper Class:**

DB Access - This class assists with data handling. It communicates with the RDB to access any information or to add or update details in the RDB.

**Views Used:**

Home Page

Login Page

Add Customer (User Registration)

Customer Page (Customer List- Features: edit, delete)

Add Product

Product (Product List - Features: edit, delete)

Admin Order (Features: delete)

Customer Order (Order List of the customer logged in)

Purchase Order (Features: add)