

DBMS Project

Gada Electronics Online Retail Store

Group 10

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Embedded SQL Queries

1.

```
def insert_new_cart_and_payment(cursor, cart_id, customer_id):  
    """Inserts a new cart and pending payment into the database."""  
    # cursor.execute("INSERT INTO Cart (Cart_ID, Customer_ID) VALUES (%s, %s)",  
(cart_id, customer_id))  
    cursor.execute("INSERT INTO Payment (Payment_ID, Customer_ID, Cart_ID, Status)  
VALUES (%s, %s, %s, 'Pending')",  
                    ('PAY' + ''.join(random.choices(string.ascii_uppercase +  
string.digits, k=10)), customer_id, cart_id))
```

2.

```
def find_nearest_warehouse(customer_address_id):  
  
    conn = mysql_connection()  
  
    cursor = conn.cursor(dictionary=True)  
  
    # Get the customer's pin code  
  
    cursor.execute("SELECT Pincode FROM Address  
WHERE Address_ID = %s", (customer_address_id,))  
  
    customer_result = cursor.fetchone()  
  
    if not customer_result: # Check if the  
address exists  
  
        return None  
  
    customer_pincode = customer_result['Pincode']
```

```

    # Fetch all distinct warehouse pin codes

    cursor.execute("SELECT DISTINCT Pincode FROM
Warehouse")

    warehouses = cursor.fetchall()

    if not warehouses: # Check if there are any
warehouses

        return None

    # Find the nearest warehouse based on pin code
difference

    try:

        nearest_warehouse_pin = min(warehouses,
key=lambda x: abs(int(x['Pincode']) -
int(customer_pincode)))['Pincode']

    except ValueError: # Catch the ValueError if
warehouses is empty

        cursor.close()

        conn.close()

        return None

    cursor.close()

    conn.close()

    # Return the pin code of the nearest warehouse

    return nearest_warehouse_pin

```

Triggers

1. DELIMITER \$\$
CREATE TRIGGER RestockProductsAfterSale
AFTER UPDATE ON Warehouse
FOR EACH
ROW BEGIN
IF OLD.Warehouse_Quantity > NEW.Warehouse_Quantity AND NEW.Warehouse_Quantity < 5
T
-- Assuming 5 as the minimum threshold for a specific warehouse UPDATE
Warehouse
SET Warehouse_Quantity = 20 -- Restocking to quantity of 20 in the specific war WHERE
Product_ID = NEW.Product_ID AND Pincode = NEW.Pincode;
END IF;
END \$\$
DELIMITER ;
2. DELIMITER \$\$
CREATE TRIGGER ClearCartAfterPayment
AFTER UPDATE ON Payment
FOR EACH
ROW BEGIN
IF NEW.Status = 'Completed' THEN
DELETE FROM Cart WHERE Cart_ID =
NEW.Cart_ID; END IF;
END\$\$
DELIMITER ;

Web pages

Customer Pages

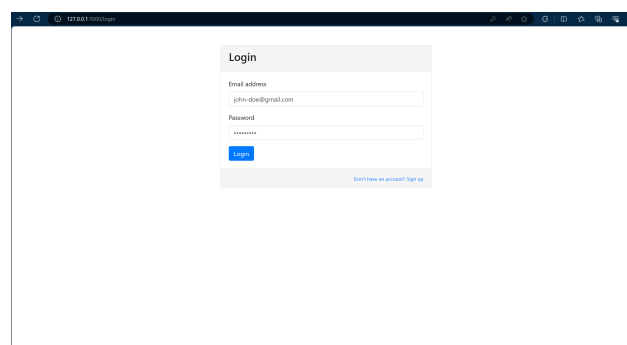


Figure 1: Login Page

127.0.0.1:5555/signup

Sign Up

Full Name

John Doe

Email address

john.doe@gmail.com

Phone Number

9871111111

Password

Confirm Password

Sign Up

Already have an account? [Login](#)

Figure 2: Sign-Up Page

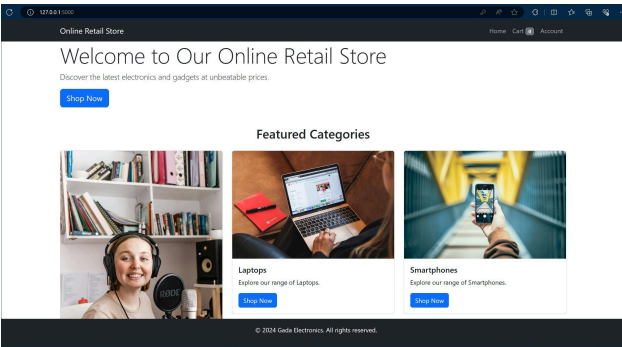


Figure 3: Home Page

Online Retail Store

Home Cart Account

Your Addresses

21 Okhla, Delhi, Delhi, 110020

Update Address

Add New Address

Flat No

Street Name

City

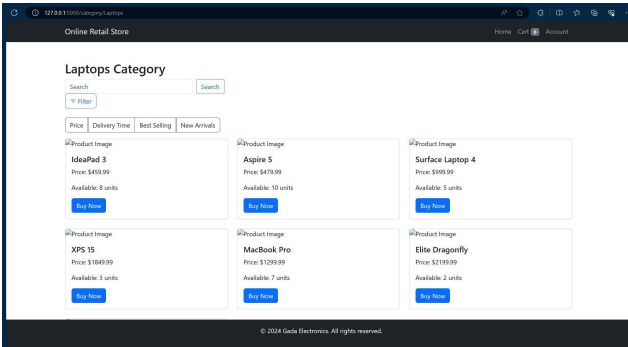
State

Pincode

Add Address

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Figure 4: Address Page



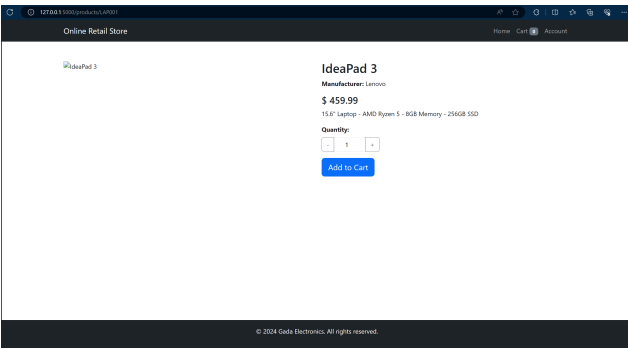


Figure 6: Buy Product Page

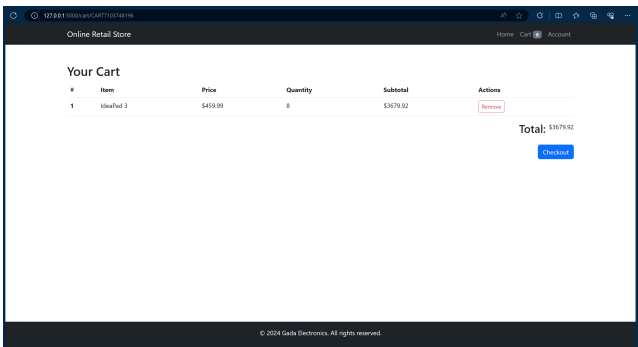


Figure 7: Cart Page

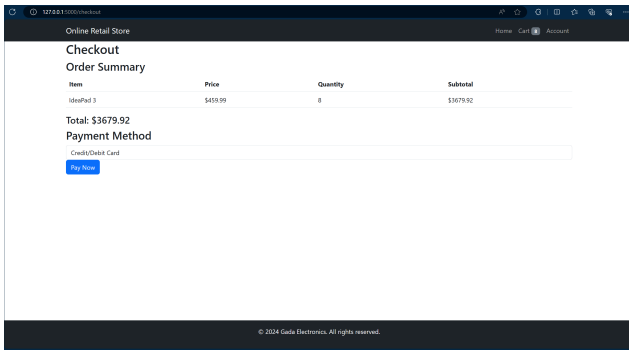


Figure 8: Checkout Page

Admin Pages

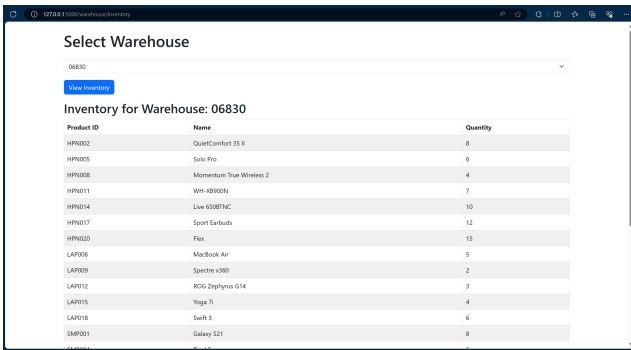
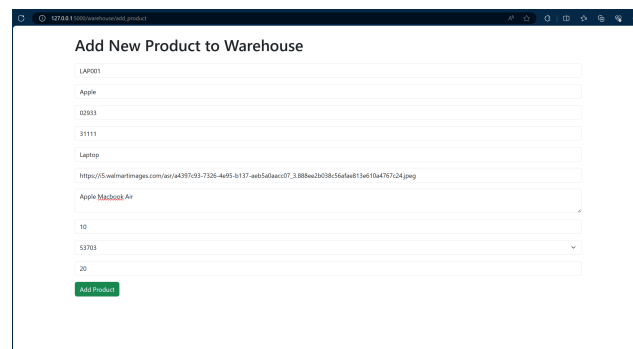


Figure 9: Inventory Page



The screenshot shows a web browser window with the address bar displaying '197763115000warehouseadd_product'. The page title is 'Add New Product to Warehouse'. The form contains the following fields: a text input with 'LAP001', a text input with 'Apple', a text input with '02993', a text input with '31111', a text input with 'Laptop', a text input with a long alphanumeric string 'https://5.mdnrtimages.com/ae/p439f5b3-7f326-4a9f5-81f37-aad5afdaac07_3.888ae216f08e15da4ae813d610a4767c24.jpeg', a text input with 'Apple MacBook Air', a text input with '10', a dropdown menu with '53703' selected, and a text input with '20'. A green 'Add Product' button is at the bottom left of the form.

Figure 10: Add Product Page

Contributions

All group members contributed equally to this submission.