

## Mini project report on

## **E Commerce Website**

Submitted in partial fulfilment of the requirements for the award of degree of

# Bachelor of Technology in

**Computer Science & Engineering** 

**UE21CS351 – DBMS Project** 

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Designation

PES University

**AUG - DEC 2023** 

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING FACULTY OF ENGINEERING PES UNIVERSITY

(Established under Karnataka Act No. 16 of 2013) Electronic City, Hosur Road, Bengaluru – 560 100, Karnataka, India

## **DECLARATION**

We hereby declare that the DBMS Project entitled **E-Commerce Website** has been carried out by us under the guidance of **Dr. Mannar Mannan, Assistant Professor** and submitted in partial fulfilment of the course requirements for the award of degree of **Bachelor of Technology** in **Computer Science and Engineering** of **PES University, Bengaluru** during the academic semester AUG – DEC 2023.

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#### **ACKNOWLEDGEMENT**

I would like to express my gratitude to Dr. Mannar Mannan, Department of Computer Science and Engineering, PES University, for her continuous guidance, assistance, and encouragement throughout the development of this UE21CS351 - DBMS Project.

I take this opportunity to thank Dr. Sandesh B J, C, Professor, Chair Person, Department of Computer Science and Engineering, PES University, for all the knowledge and support I have received from the department.

I am deeply grateful to Dr. M. R. Doreswamy, Chancellor, PES University, Prof. Jawahar Doreswamy, Pro Chancellor – PES University, Dr. Suryaprasad J, Vice-Chancellor, PES University for providing to me various opportunities and enlightenment every step of the way. Finally, this DBMS Project could not have been completed without the continual support and encouragement I have received from my family and friends.

#### **ABSTRACT**

Our Project, "E-Commerce Website" involves the development of an E-commerce website that enables users to search for, and purchase products online. It provides a platform for buyers to shop conveniently from a wide range of categories.

The primary purpose of this project is to create an online marketplace that facilitates seamless transactions. It aims to provide a user-friendly and secure platform for e-commerce activities, including product listing, shopping cart management, order processing, and payment handling.

The system will be implemented using PHP for the backend and MySQL as the database management system. The aim of this project is to develop a fully functional E-Commerce website while emphasizing the learning of PHP programming and MySQL database management.

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9	category

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## 1. INTRODUCTION

Our E-Commerce project is all about making online shopping straightforward and enjoyable. We want to create a strong marketplace where users can easily find and buy products. Using PHP and MySQL, we're following industry standards while also giving developers a chance to learn these important web development tools. Our focus goes beyond just functionality. We're dedicated to creating a website that's easy to use, responsive, and ensures secure transactions by integrating payment methods.

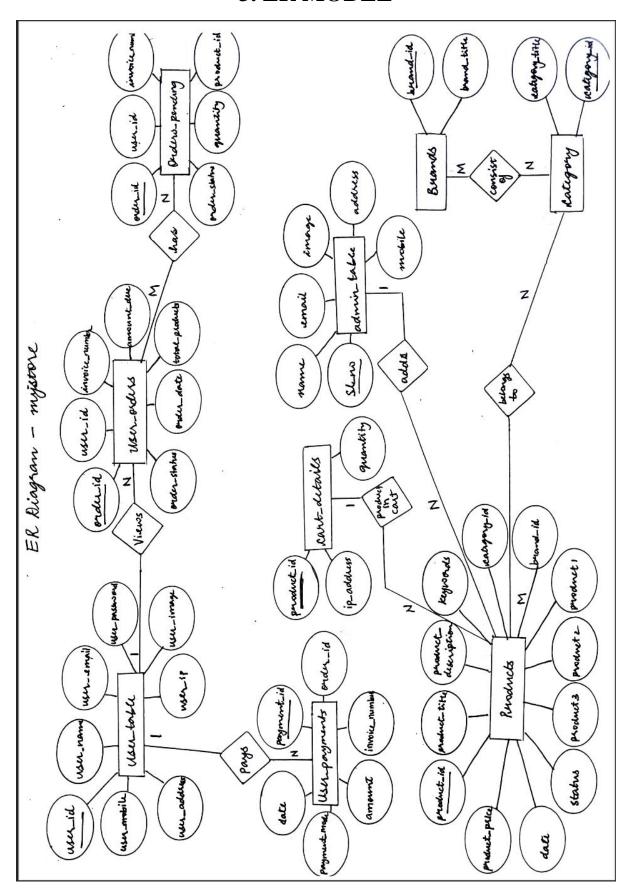
We aim to deliver a comprehensive E-Commerce platform covering user registration, product management, shopping cart and checkout processes, order tracking, payment processing, and an admin panel for site management. We've also included features like search and filters to enhance the user experience, making product discovery precise and effortless. The website is designed to be interactive and engaging, providing users with a seamless online shopping journey. Our use of technologies like XAMPP, Apache, PHP, MySQL, HTML, and CSS showcases the project's technical depth, offering a complete solution for a modern and efficient E-Commerce experience.

## 2. PROBLEM DEFINITION

In the ever-expanding digital marketplace, there exists a need for a user-centric and secure E-Commerce platform that caters to the growing demands of online shoppers. Many existing solutions lack a comprehensive set of features, leading to fragmented and less-than-ideal user experiences. Current platforms may also face challenges related to security, making users hesitant about engaging in online transactions. Additionally, the absence of standardized technologies for web development in some solutions poses obstacles for developers to create robust and scalable E-Commerce websites.

The lack of a seamlessly integrated and user-friendly online marketplace is a critical issue that our project aims to address. Users often encounter difficulties in navigating through product listings, managing their shopping carts efficiently, and experiencing a secure and enjoyable transaction process. Moreover, existing platforms may lack modern features such as responsive web design and integration with popular payment gateways, hindering their ability to meet the diverse needs of today's online shoppers. In light of these challenges, our E-Commerce Website project seeks to provide a comprehensive solution that not only streamlines the user experience but also offers a learning platform for developers to master essential web development technologies, ensuring a more accessible and secure online shopping environment for all.

## 3. ER MODEL



## 4. ER TO RELAIONAL MAPPING

#### 4.1 STEPS OF ALGORITHM FOR CHOOSEN PROBLEM

#### User Registration and Authentication:

- Prompt the user to register by providing necessary details.
- Verify user inputs for validity (e.g., proper email format, strong password).
- Store user information securely in the database.
- Implement authentication to validate user credentials during login.

#### Product Listing and Management:

- Retrieve product data from the database.
- Display products with details such as name, image, price, and description.
- Allow users to filter products based on categories and brands.
- Allows search for products based on keywords stored in the database
- Enable Admin to add, edit, or remove products from the database.

## Shopping Cart and Checkout:

- Implement a shopping cart to store selected products for a user.
- Allow users to add, remove, or adjust quantities of items in the cart.
- Calculate the total cost of items in the cart.
- Facilitate a secure checkout process for users to complete their purchases.

## Order Management:

- Store order details, including products, quantities, and total cost.
- Provide users with access to their order history and current order status.
- Allow admin to track and manage all orders.

## Payment Processing:

- Integrate with a secure payment gateway (e.g., PayPal, Stripe). In our project we have only implemented cash on delivery.
- Users must to enter payment method details securely.
- Verify and process payments securely.

## Admin Panel for Site Management:

- Create an admin interface for managing users, products, and orders.
- Implement authentication for admin access.
- Allow admins to add, edit, or remove products and user accounts.

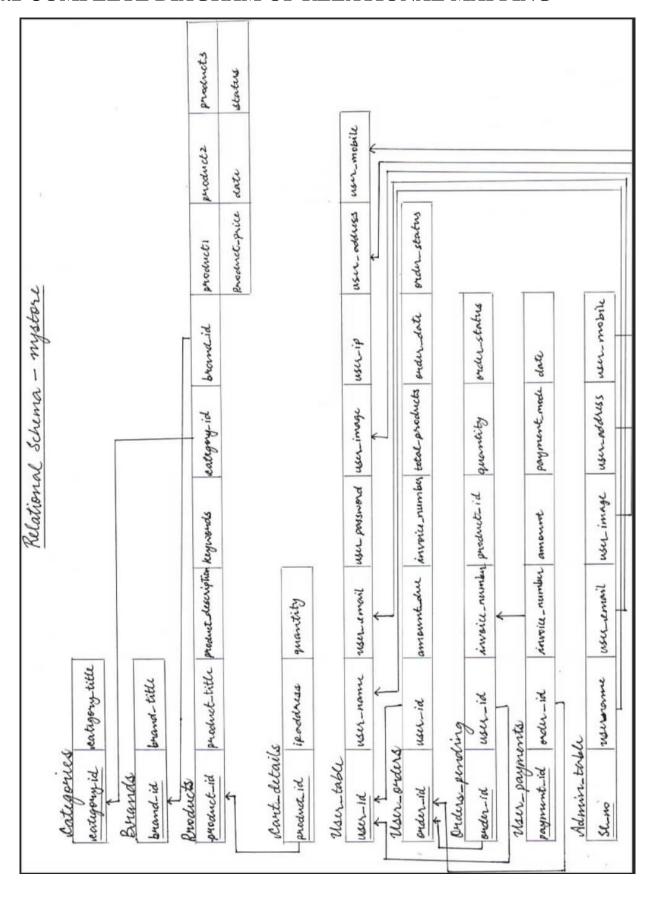
## Search and Filter Functionality:

- Implement a search feature for users to find products quickly.
- Allow users to filter search results based on various criteria.

## Interactive Design:

• Design a user-friendly interface for seamless navigation.

## 4.2 COMPLETE DIAGRAM OF RELATIONAL MAPPING



## 5. DDL STATEMENTS



```
CREATE TABLE `admin` (
 `admin_id` int(11) NOT NULL,
 'admin name' varchar(255) NOT NULL,
 `admin_email` varchar(255) NOT NULL,
 `admin_password` varchar(255) NOT NULL
);
CREATE TABLE `brands` (
 'brand id' int(11) NOT NULL,
 'brand title' varchar(100) NOT NULL
);
CREATE TABLE `cart details` (
 `product_id` int(11) NOT NULL,
 `ip_address` varchar(255) NOT NULL,
 `quantity` int(100) NOT NULL
);
```

```
CREATE TABLE `categories` (
 `category_id` int(11) NOT NULL,
 `category_title` varchar(100) NOT NULL
);
CREATE TABLE `orders_pending` (
 `order_id` int(11) NOT NULL,
 `user_id` int(11) NOT NULL,
 `invoice_number` int(255) NOT NULL,
 `product_id` int(11) NOT NULL,
 `quantity` int(255) NOT NULL,
 `order_status` varchar(225) NOT NULL
);
CREATE TABLE `products` (
 `product_id` int(11) NOT NULL,
 `product_title` varchar(100) NOT NULL,
 `product_description` varchar(255) NOT NULL,
 `product_keywords` varchar(255) NOT NULL,
 `category_id` int(11) NOT NULL,
 `brand id` int(11) NOT NULL,
 `product_image1` varchar(255) NOT NULL,
 `product_image2` varchar(255) NOT NULL,
 `product_image3` varchar(255) NOT NULL,
 `product_price` varchar(100) NOT NULL,
 'date' timestamp NOT NULL DEFAULT current timestamp() ON UPDATE current timestamp(),
 `status` varchar(100) NOT NULL
);
```

```
CREATE TABLE `user_orders` (
 `order_id` int(11) NOT NULL,
 `user id` int(11) NOT NULL,
 `amount_due` int(255) NOT NULL,
 `invoice_number` int(255) NOT NULL,
 `total_products` int(255) NOT NULL,
 `order_date` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE
current_timestamp(),
 `order_status` varchar(255) NOT NULL
);
CREATE TABLE `user_payments` (
 `payment_id` int(11) NOT NULL,
 `order_id` int(11) NOT NULL,
 `invoice number` int(11) NOT NULL,
 `amount` int(11) NOT NULL,
 `payment_mode` varchar(255) NOT NULL,
 `date` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE current_timestamp()
);
CREATE TABLE `user table` (
 `user id` int(11) NOT NULL,
 `username` varchar(100) NOT NULL,
 `user_email` varchar(100) NOT NULL,
 `user_password` varchar(255) NOT NULL,
 `user_image` varchar(225) NOT NULL,
 `user ip` varchar(100) NOT NULL,
 `user_address` varchar(255) NOT NULL,
 `user_mobile` varchar(20) NOT NULL
)
```

## 6. DML STATEMENTS

#### admin

INSERT INTO `admin` (`admin\_id`, `admin\_name`, `admin\_email`, `admin\_password`) VALUES (1, 'Maryam', 'maryam@gmail.com',

'\$2y\$10\$ol4DskDH9F4/wLiakRjR9Okhm4uQ2XS4ACvRHYEJbq1MJDS7//BDi');



#### brands

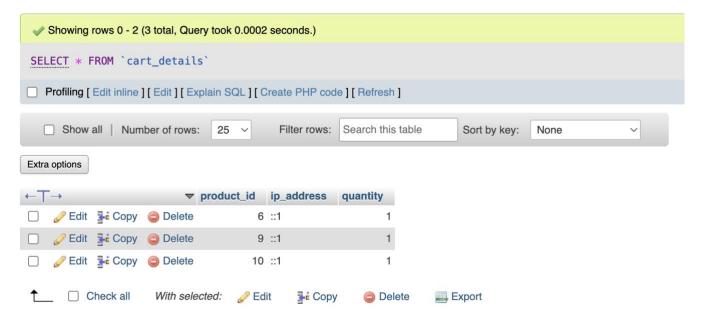
INSERT INTO `brands` (`brand\_id`, `brand\_title`) VALUES

- (1, 'Nike'),
- (2, 'Puma'),
- (3, 'Sketchers'),
- (4, 'Fossil'),
- (5, 'G-Shock'),
- (6, 'Allen Solly'),
- (7, 'Van Heusen'),
- (8, 'Leafyaffair');



#### cart\_details

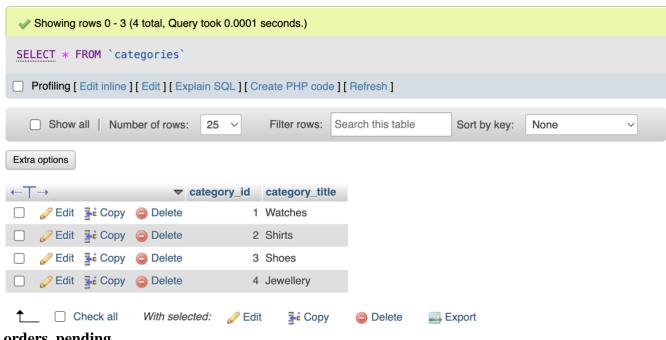
INSERT INTO `cart\_details` (`product\_id`, `ip\_address`, `quantity`) VALUES (6, '::1', 1), (9, '::1', 1), (10, '::1', 1);



#### catrgories

INSERT INTO `categories` (`category\_id`, `category\_title`) VALUES

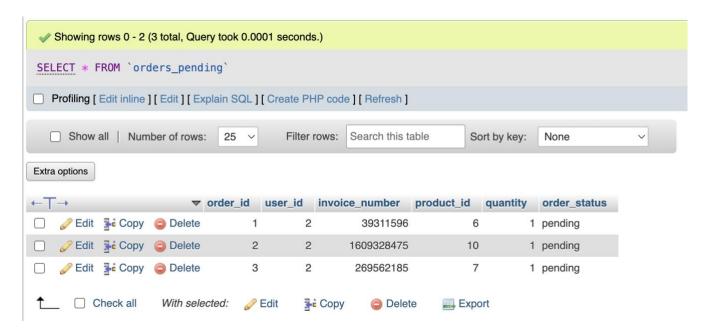
- (1, 'Watches'),
- (2, 'Shirts'),
- (3, 'Shoes'),
- (4, 'Jewellery');



#### orders\_pending

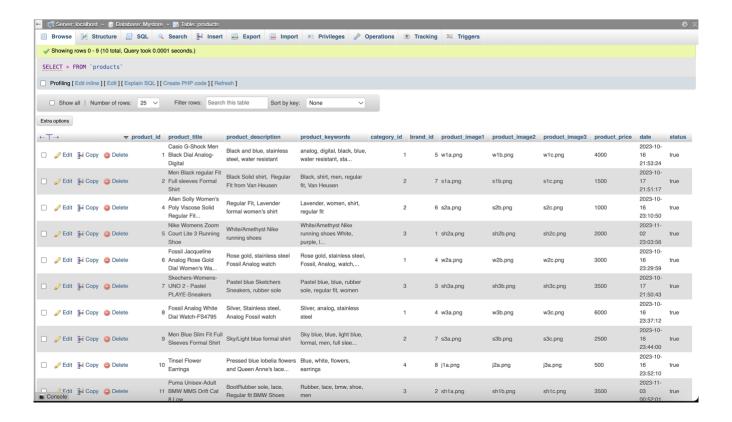
INSERT INTO `orders\_pending` (`order\_id`, `user\_id`, `invoice\_number`, `product\_id`, `quantity`, `order\_status`) VALUES

- (1, 2, 39311596, 6, 1, 'pending'),
- (2, 2, 1609328475, 10, 1, 'pending'),
- (3, 2, 269562185, 7, 1, 'pending');



#### products

- INSERT INTO `products` (`product\_id`, `product\_title`, `product\_description`, `product\_keywords`, `category\_id`, `brand\_id`, `product\_image1`, `product\_image2`, `product\_image3`, `product\_price`, `date`, `status`) VALUES
- (1, 'Casio G-Shock Men Black Dial Analog-Digital', 'Black and blue, stainless steel, water resistant', 'analog, digital, black, blue, water resistant, stainless steel, men', 1, 5, 'w1a.png', 'w1b.png', 'w1c.png', '4000', '2023-10-16 16:23:24', 'true'),
- (2, 'Men Black regular Fit Full sleeves Formal Shirt', 'Black Solid shirt, Regular Fit from Van Heusen', 'Black, shirt, men, regular fit, Van Heusen', 2, 7, 's1a.png', 's1b.png', 's1c.png', '1500', '2023-10-17 16:21:17', 'true'),
- (4, 'Allen Solly Women\'s Poly Viscose Solid Regular Fit Shirt', 'Regular Fit, Lavender formal women's shirt', 'Lavender, women, shirt, regular fit', 2, 6, 's2a.png', 's2b.png', 's2c.png', '1000', '2023-10-16 17:40:50', 'true'),
- (5, 'Nike Womens Zoom Court Lite 3 Running Shoe', 'White/Amethyst Nike running shoes', 'White/Amethyst Nike running shoes White, purple, lilac, amethyst, nike, shoes, women', 3, 1, 'sh2a.png', 'sh2b.png', 'sh2c.png', '2000', '2023-11-02 17:33:56', 'true'),
- (6, 'Fossil Jacqueline Analog Rose Gold Dial Women\'s Watch', 'Rose gold, stainless steel Fossil Analog watch', 'Rose gold, stainless steel, Fossil, Analog, watch, women', 1, 4, 'w2a.png', 'w2b.png', 'w2c.png', '3000', '2023-10-16 17:59:59', 'true'),
- (7, 'Skechers-Womens-UNO 2 Pastel PLAYE-Sneakers', 'Pastel blue Sketchers Sneakers, rubber sole', 'Pastel blue, blue, rubber sole, regular fit, women', 3, 3, 'sh3a.png', 'sh3b.png', 'sh3c.png', '3500', '2023-10-17 16:20:43', 'true'),
- (8, 'Fossil Analog White Dial Watch-FS4795', 'Silver, Stainless steel, Analog Fossil watch', 'Sliver, analog, stainless steel', 1, 4, 'w3a.png', 'w3b.png', 'w3c.png', '6000', '2023-10-16 18:07:12', 'true'), (9, 'Men Blue Slim Fit Full Sleeves Formal Shirt', 'Sky/Light blue formal shirt', 'Sky blue, blue, light blue, formal, men, full sleeve', 2, 7, 's3a.png', 's3b.png', 's3c.png', '2500', '2023-10-16 18:14:00', 'true'), (10, 'Tinsel Flower Earrings', 'Pressed blue lobelia flowers and Queen Anne\'s lace earrings', 'Blue, white, flowers, earrings', 4, 8, 'j1a.png', 'j2a.png', 'j3a.png', '500', '2023-10-16 18:22:10', 'true'), (11, 'Puma Unisex-Adult BMW MMS Drift Cat 8 Low ', 'BootRubber sole, lace, Regular fit BMW Shoes ', 'Rubber, lace, bmw, shoe, men', 3, 2, 'sh1a.png', 'sh1b.png', 'sh1c.png', '3500', '2023-11-02 19:22:01', 'true');



#### user\_orders

INSERT INTO `user\_orders` (`order\_id`, `user\_id`, `amount\_due`, `invoice\_number`, `total\_products`, `order\_date`, `order\_status`) VALUES (1, 2, 3500, 269562185, 1, '2023-11-04 14:02:13', 'Complete');



user\_payments

INSERT INTO `user\_payments` (`payment\_id`, `order\_id`, `invoice\_number`, `amount`, `payment\_mode`, `date`) VALUES (1, 1, 269562185, 3500, 'Net Banking', '2023-11-04 14:02:13');



#### user\_table

INSERT INTO `user\_table` (`user\_id`, `username`, `user\_email`, `user\_password`, `user\_image`, `user\_ip`, `user\_address`, `user\_mobile`) VALUES (2, 'Manasvi', 'manasvi@gmail.com', '\$2y\$10\$smxfjmkam4snSlbaJ.rWNO.ejnb6fu3d2pfpTSSzo1hZDqFYfhZEC', 'u1.png', '::1', 'Koramangala', '1234567890');



## 7. QUERIES

## 7.1 SIMPLE QUERY WITH GROUP BY OR AGRREGATE

Fetch scheme prices and sum them up: We use this query in our trigger to find the sum which is required while finding order total.

SELECT SUM(scheme\_price) INTO total FROM schemes WHERE scheme\_id = schemePrice;

#### 7.2 UPDATE OPERATION

In cart.php to update the cart\_details table values of ip\_address and product\_id

\$update\_cart = "UPDATE cart\_details SET quantity = \$quantity WHERE ip\_address = '\$ip' AND product\_id
= \$product\_id";

In edit\_brand.php to update the brands table values of brand\_title

\$update\_query = "UPDATE brands SET brand\_title = '\$brand\_title' WHERE brand\_id = '\$edit\_brand'";

In edit\_brand.php to update the categories table values of category\_title

\$update\_query="update categories set category\_title='\$cat\_title' where category\_id='\$edit\_category'";

In edit\_products.php to update the products table values of product\_title and product\_image

\$update\_product = "UPDATE products SET product\_title='\$product\_title',
\$update\_product .= ", product\_image1='\$product\_image1";

In confirm\_payment.php update the user\_orders table values of user\_id

\$update\_orders = "UPDATE user\_orders SET order\_status='Complete' WHERE order\_id='\$order\_id";

In edit\_account.php update the user details when image if image is updated

```
$update_data = "UPDATE user_table SET username = '$new_username', user_email = '$user_email',
user_image = '$user_image', user_address = '$user_address', user_mobile = '$user_mobile' WHERE
user_id = '$update_id'";
```

In edit\_account.php update the user details when image if image is not updated

```
$update_data = "UPDATE user_table SET username = '$new_username', user_email = '$user_email',
user_address = '$user_address', user_mobile = '$user_mobile' WHERE user_id = '$update_id''';
```

#### 7.3 DELETE OPERATION

We call the procedure DeleteBrand(\$delete\_brand) which uses the delete query **DELETE FROM brands WHERE brand\_id = brand\_id\_param;** 

In cart.php delete cart\_details where product\_id is specified

```
$delete_query="delete from cart_details where product_id=$remove_id";
```

In delete\_caetgory.php delete the category having a specific category\_id

```
$delete_query = "DELETE FROM categories WHERE category_id = '$delete_category'";
```

In delete product.php delete the products having a specific product id

```
$delete_product="Delete from products where product_id='$delete_id";
```

In delete\_account.php we delete form the user\_table where username is specified

```
$delete_query="delete from user_table where username='$username_session'";
```

## 7.4 CORRELATED QUERY

A correlated subquery is a subquery that contains a reference to a table that also appears in the outer query.

In user\_login.php we check whether the username and password match to allow login

```
select_query="select * from user_table where username='$user_username'";
```

In user\_login.php we check whether the ip\_address is same as user\_ip

```
$select_query_cart="select * from cart_details where ip_address='$user_ip'";
```

To select a product form products table we check the product\_id

```
$select_product = "SELECT * FROM products WHERE product_id = $product_id";
```

## 7.5 NESTED QUERY

In this nested query we use a correlated query where the 'WHERE' condition checks the ip address, it also has an inner join on the cart details and products tables and we do a select operation.

```
$cart_query = "SELECT cart_details.product_id, products.product_title, products.product_image1,

products.product_price, cart_details.quantity

FROM cart_details

INNER JOIN products ON cart_details.product_id = products.product_id

WHERE cart_details.ip_address = '$ip'";
```

## 8. STORED PROCEDURES, FUCNTIONS AND TRIGGERS

#### 8.1 STORED PROCEDURES OR FUNCTIONS

Function to calculate the subtotal of the order or items in the cart

```
1 DELIMITER //
 3 CREATE FUNCTION total_cart_price(ipAddress VARCHAR(255)) RETURNS DECIMAL(10, 2)
 5
      DECLARE total DECIMAL(10, 2);
      DECLARE schemePrice DECIMAL(10, 2);
 7
 8
      SET total = 0;
 9
10
     -- Calculate the total cart price based on the payment table
      SELECT scheme_id INTO schemePrice FROM payment WHERE ip_address = ipAddress;
11
12
13
      -- Fetch scheme prices and sum them up
14
      SELECT SUM(scheme_price) INTO total FROM schemes WHERE scheme_id = schemePrice;
15
16
      RETURN total;
17 END //
18
19 DELIMITER;
```

Procedure to delete items of a specified brand

```
DELIMITER $$
CREATE PROCEDURE DeleteBrand(IN brand_id_param INT)
BEGIN
DELETE FROM brands WHERE brand_id = brand_id_param;
END $$
DELIMITER;
```

#### 8.2 TRIGGERS

Trigger that deletes all products from the products table having that category that is deleted

```
1 CREATE TRIGGER DeleteProductsOnCategoryDelete
2 AFTER DELETE ON categories
3 FOR EACH ROW
4 BEGIN
5     DELETE FROM products
6     WHERE category_id = OLD.category_id;
7 END;
8 //
9 DELIMITER;
```

## 10. FRONT END DEVELOPEMNT

In our E-commerce website's front-end development, we use HTML, PHP, Bootstrap, and Font Awesome to implement user-friendly interface.

The HTML structure provides the foundation for content organization, while PHP dynamically handles user sessions and includes essential files. Bootstrap, a trusted frontend framework, lends its responsive design and pre-styled components to ensure an adaptable and polished layout.

FontAwesome, Bootstrap, and CSS are the enhance both the look and functionality of the website. FontAwesome introduces a variety of scalable icons, adding visual appeal, notably in the animated shopping cart icon. Bootstrap streamlines the creation of a responsive layout, evident in the structured navigation bar and grid-based product cards, while CSS adds a personalized touch, adjusting elements like logo appearance and image sizes for a polished design.

Together, these tools create a visually engaging, responsive, and user-friendly web interface.

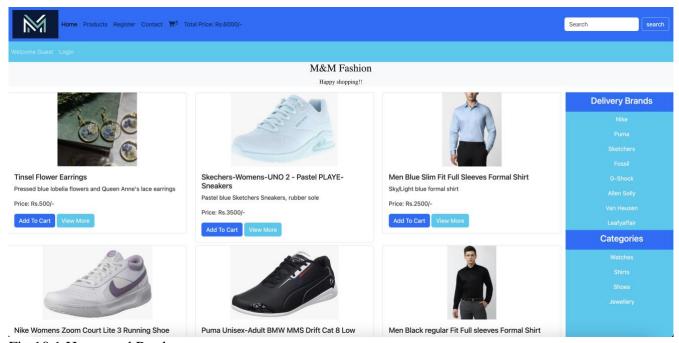


Fig 10.1 Home and Products page

Home Products Contact		Search	search
	M&M Fashion		
	Happy shopping!!		
	New User Registration		
	Username		
	Enter your username		
	Email		
	Enter your email		
	User Image		
	Choose file No file chosen		
	User Password		
	Enter your password		
	Confirm Password		
	Confirm password		
	Address		
	Enter your address		
	Contact		
	Enter your mobile number		
	Register		
	Already have an account? Login		

Fig 10.2 User Registration



Fig 10.3 User Login

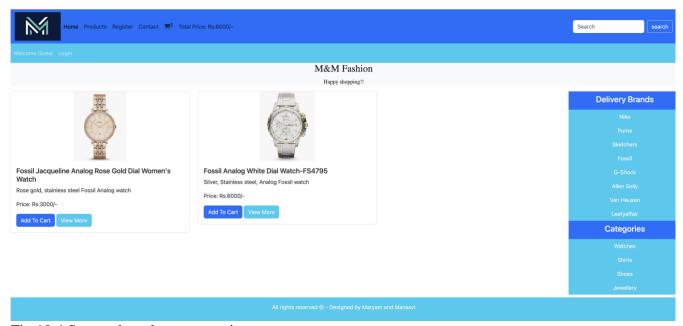


Fig 10.4 Sort on brands or categories

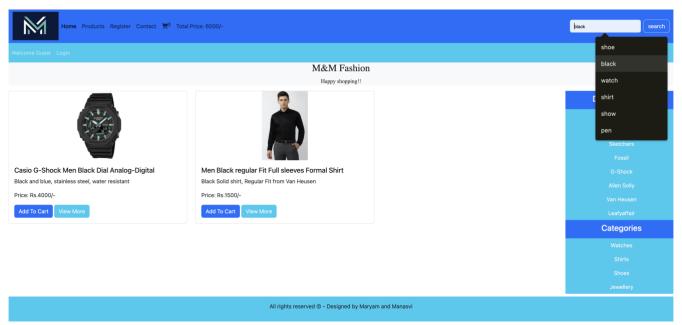


Fig 10.5 Search operation



Fig 10.6 Admin Registration

# **Admin Login**

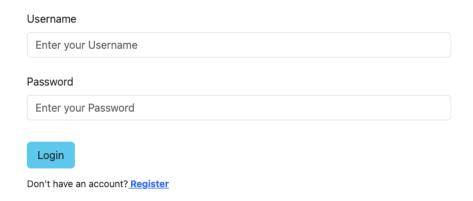


Fig 10.7 Admin Login



Fig 10.8 Admin Page with buttons to perform various functions

None Products Register Logic	
Insert Products   View Products   Insert Categorie	
Product Title Enter product title Product Description Enter product de Knywords Enter product de Select a Categor Select a Brand Product mage Choose file 1	n scription  vertids  v
Product Image 2 Choose file 10 Product Image 3 Choose file 10 Product Control Choose file 10 Product Control Choose file 10 Reset Products Reset Products	of file chasen
All	

Fig 10.9 Admin may insert products

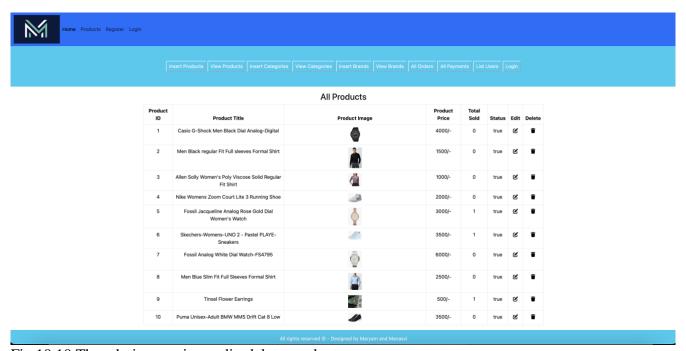
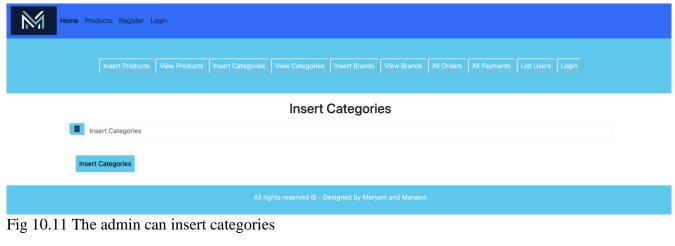


Fig 10.10 The admin can view, edit, delete products



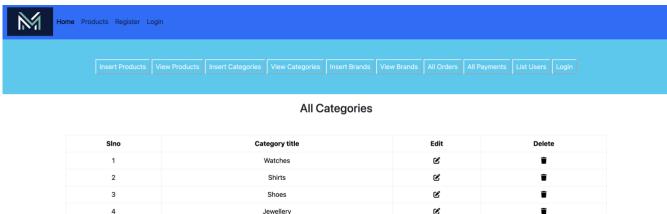


Fig 10.12 Admin may view, edit, delete categories

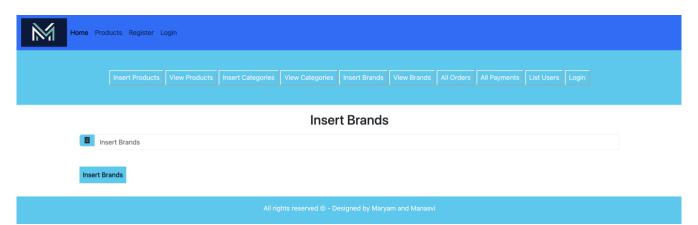


Fig 10.13 Admin may insert brands



**All Brands** 

Sino	Brand title	Edit	Delete
1	Nike	<b>E</b>	î
2	Puma	ď	î
3	Sketchers	C	î
4	Fossil	<b>E</b>	î
5	G-Shock	<b>E</b>	î
6	Allen Solly	ď	î
7	Van Heusen	ď	î
8	Leafyaffair	C	î

Fig 10.14 Admin may view, edit, delete brands

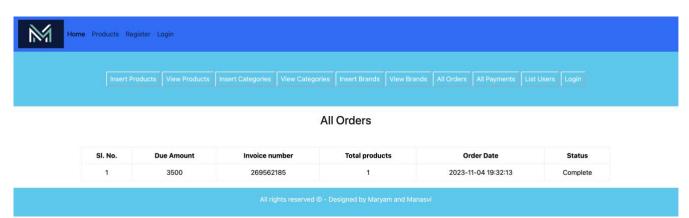


Fig 10.15 Admin can view all orders

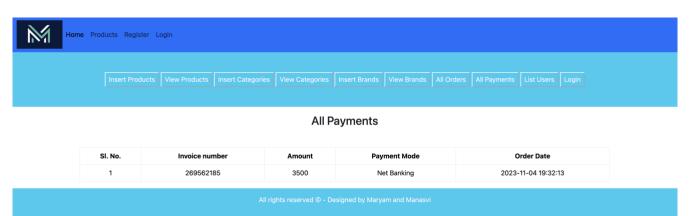
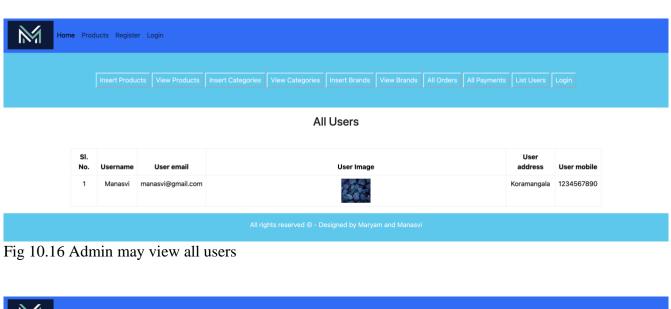


Fig 10.15 Admin may view all payments



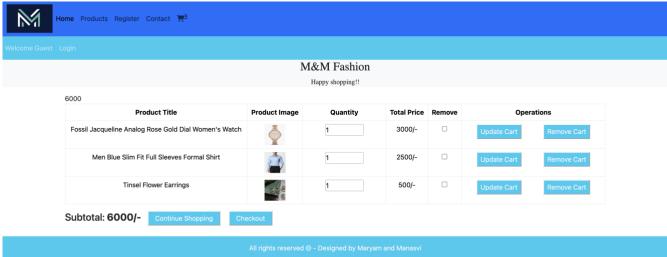


Fig 10.17 Items in cart and subtotal and checkout option



Fig 10.18 Payment page: We have implemented only COD in our code



Fig 10.19 User profile page showing pending orders

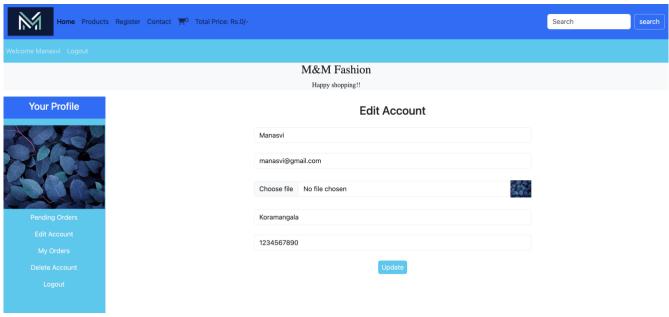


Fig 10.20 User profile page with edit option

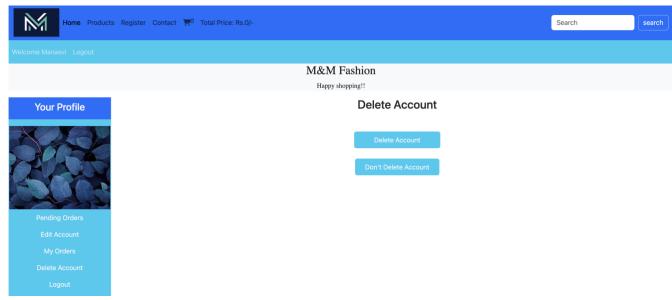


Fig 10.21 User may delete their account

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