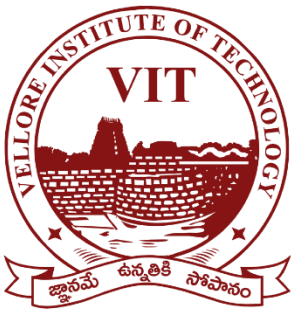


VIT-AP UNIVERSITY

Software Engineering Lab (CSE1005)

E-Fashion Store

Final Project Report

Submitted to: Dr. Subrata Tikadar

Submitted by:

20BCD7127 RAHUL YADAV

20BCD7107 THOTA RAKESH

20BCD7065 NAGA CHAITANYA THOTA

20BCD7098 JONNADULA VENKATA RAHUL

20BCE7481 KUNTELLA HEMA VENKATA UPENDRA

Introduction

The E-Fashion Website is an online platform designed to revolutionize the fashion industry by providing customers with a seamless and user-friendly shopping experience. In today's digital age, the demand for convenient and personalized shopping solutions has soared, and E-Fashion aims to fulfill these expectations. By leveraging advanced technologies and user-centric design principles, E-Fashion empowers users to explore, discover, and purchase fashion products with ease. This report presents a comprehensive overview of the project, highlighting its objectives, scope, and future prospects.

Objectives and Scopes:

The primary objectives of the E-Fashion Website are as follows:

- To create an intuitive and visually appealing interface that enhances the user experience and encourages engagement.
- To provide comprehensive product information, including detailed descriptions, high-quality images, and size charts, enabling users to make informed purchase decisions.
- To implement a robust search functionality with advanced filters, allowing users to find specific fashion products tailored to their preferences.
- To develop a secure and seamless checkout process, ensuring the confidentiality of user information and facilitating smooth online transactions.
- To enable users to track their orders, receive timely notifications, and access their order history for a transparent and efficient shopping experience.
- To offer customer support 24/7, addressing user inquiries, concerns, and feedback promptly.
- To provide administrators with user management tools, inventory management capabilities, and generate sales reports for business insights.

The scope of the E-Fashion Website encompasses the development of a web-based application accessible on desktop and mobile devices. It includes features such as user management, product browsing and searching, shopping cart and checkout, order management, feedback and ratings, Wishlist and sharing, and customer support. Additionally, the Website incorporates administrative functionalities, such as user account management, inventory management, and sales reporting.

Software Requirements Specification (SRS)

1. Introduction

The E-Fashion Website is an online platform designed to provide a seamless and user-friendly shopping experience for customers in the fashion industry. This document serves as a comprehensive Software Requirements Specification for the development team, outlining the functional and non-functional requirements of the Website.

1.1 Purpose

The purpose of the E-Fashion Website is to create an intuitive and secure platform that enables users to browse, search for, and purchase fashion products conveniently. The Website aims to enhance the overall user experience by offering personalized recommendations, detailed product information, reliable customer support, and efficient order management.

1.2 Scope

The scope of the E-Fashion Website includes the development of a web-based application accessible on desktop and mobile devices. The Website will allow users to create accounts, browse products, search for specific items, add products to the shopping cart, proceed to secure checkout, track order status, and receive email notifications for order updates. It will also provide administrators with user management, inventory management, and sales reporting functionalities.

2. Overall Description

2.1 Product Perspective

The E-fashion Website will be a standalone system that operates as a web application accessible through various browsers. It will interact with a secure payment gateway for processing online transactions.

2.2 User Classes and Characteristics

The Website will cater to two main user classes: regular users and administrators. Regular users will include customers who browse and purchase products, while administrators will have access to manage user accounts, inventory, and generate reports.

2.3 Operating Environment

The E-fashion Website will be hosted on a web server with support for the required technologies, such as a modern web browser, a database management system, and an email service provider for sending notifications.

3. Functional Requirements

3.1 User Management

- The system shall allow users to create an account with a unique username and password.

- The system shall provide the option to log in using social media accounts.

- The system shall support multiple user roles with different access levels.

3.2 Product Browsing and Searching

- The Website shall provide an interface to browse products.

- The system shall offer intuitive navigation for different product categories.

- The system shall provide an advanced search feature with filters for precise results.

- The system shall allow users to customize their product searches.

3.3 Product Details and Comparison

- Product pages shall include comprehensive and detailed descriptions.

- The Website shall showcase high-quality product images with zoom functionality.

- Users shall be able to easily compare products side by side.

3.4 Shopping Cart and Checkout

- Users shall be able to conveniently add items to their shopping cart.

- The system shall allow users to proceed to checkout and process online payments securely.

- The system shall provide a guest checkout option for users without an account.

- Users shall have the option to securely save payment information for future purchases.

3.5 Order Management

- The system shall generate and send email notifications to users for order updates.

- Users shall be able to track the status of their orders.

- The system shall provide real-time updates on order processing and shipping.

- Users shall have access to their order history and track shipments.

3.6 Feedback and Ratings

- Users shall be able to rate and provide feedback on purchased products.

- The website shall display both average ratings and individual user reviews for products.

3.7 Wishlist and Sharing

- Users shall have the ability to create and manage wishlists.

- Users shall be able to easily share product pages on social media.

- The website shall allow users to easily share their wishlists with others.

3.8 Support and Information

- Users shall have access to customer support 24X7.

- The website shall provide a comprehensive FAQ section for common inquiries.

- The website shall provide size charts and fit guides for accurate purchasing decisions.

4. Non-functional Requirements

4.1 Performance

- The Website shall provide a responsive design for mobile devices.

- The website shall offer a seamless registration process.

- The website shall offer a "Add to Cart" feature for a seamless shopping experience.

4.2 Security

- The checkout process shall be secure and streamlined.

- The website shall offer a secure and seamless payment process.

4.3 Usability

- The website shall have a user-friendly interface to browse products.

- The registration process shall be quick and hassle-free.

- The website shall provide personalized recommendations for users.

- The website shall provide size and fit recommendations based on user preferences.

4.4 Maintainability

- The system shall allow administrators to manage user accounts.

- The system shall provide an inventory management feature.

4.5 Reporting

- The system shall generate sales reports on a monthly basis.

4.6 Administrative Requirements

- The system shall allow administrators to manage user accounts, including creating, modifying, and deleting accounts.

- The system shall provide an inventory management feature to track product quantities and update stock levels.

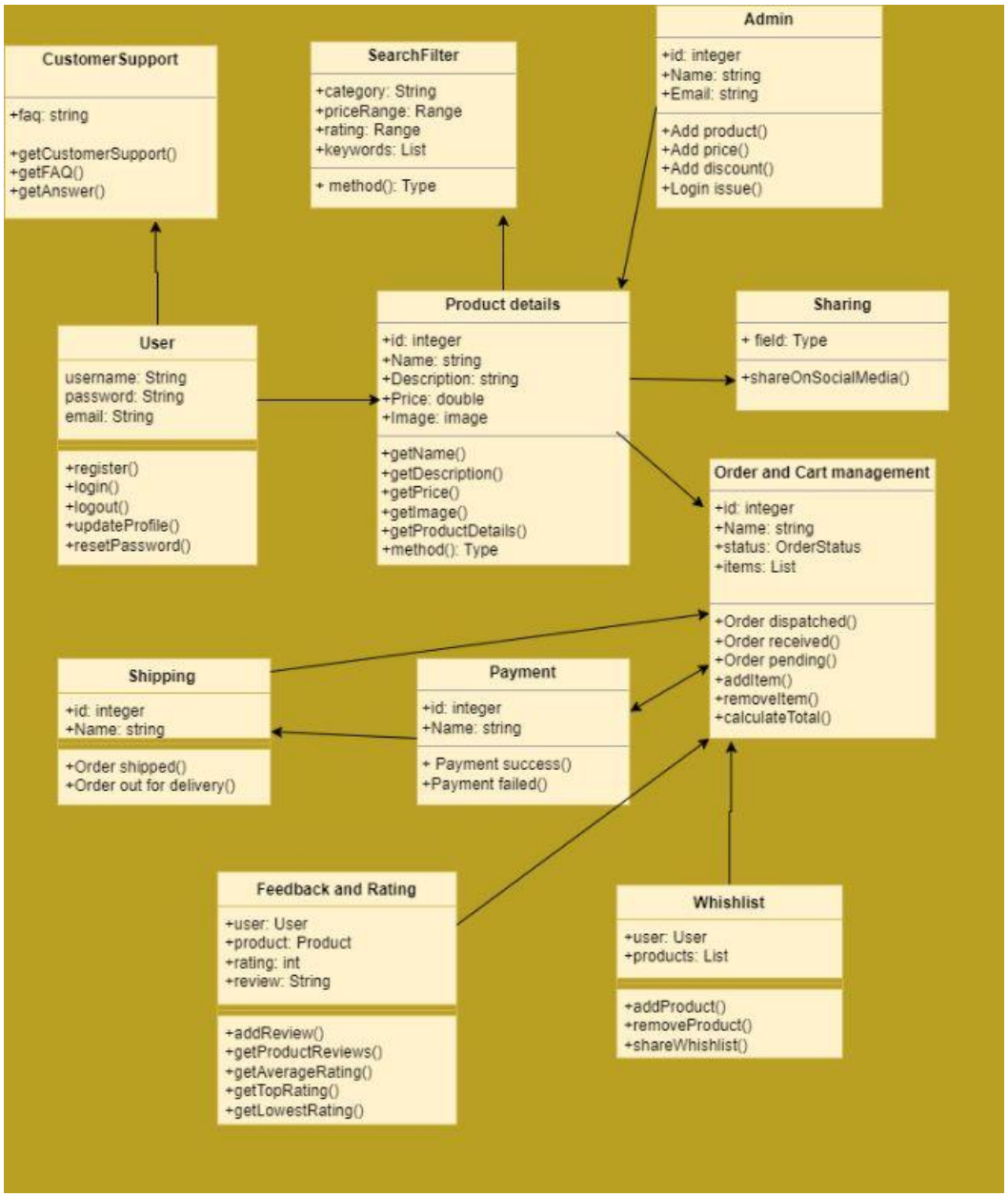
- The system shall generate sales reports for administrators, including total sales, top-selling products, and revenue breakdown by category.

5. Conclusion

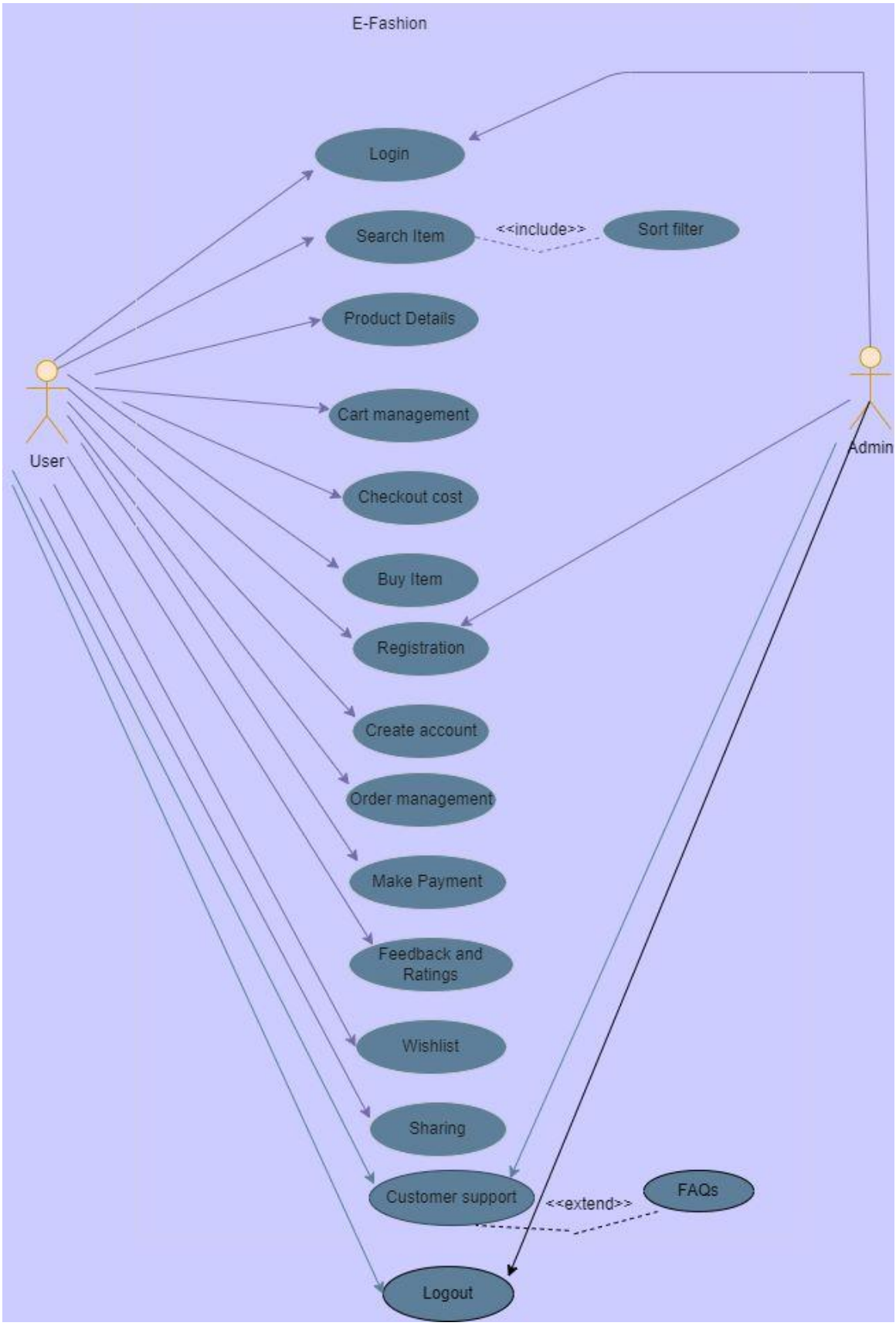
This SRS document provides a comprehensive overview of the requirements for the E-fashion Website. It covers both functional and non-functional aspects, ensuring a user-friendly, secure, and efficient e-commerce experience for customers while offering robust management capabilities for administrators.

Design Diagrams

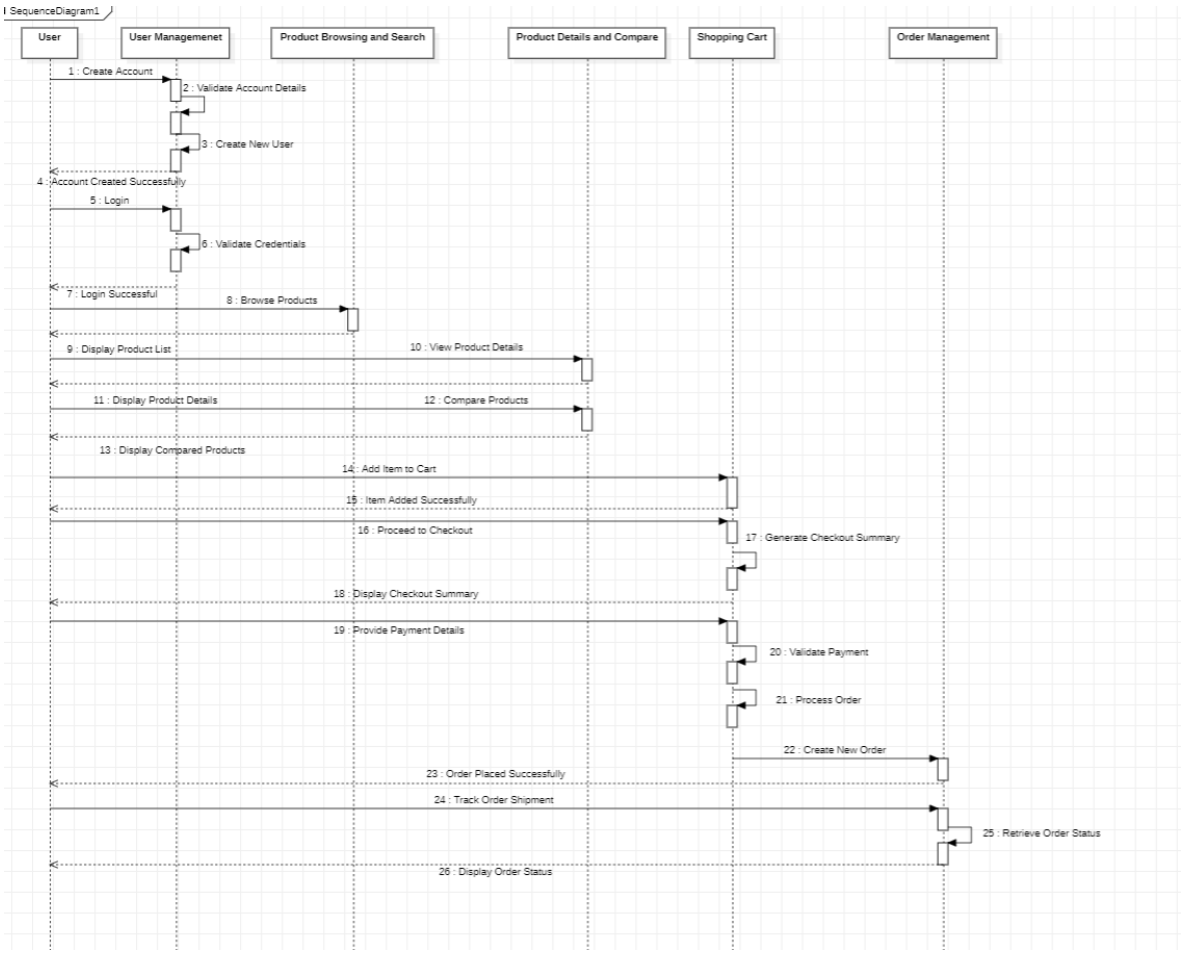
1) CLASS DIAGRAM



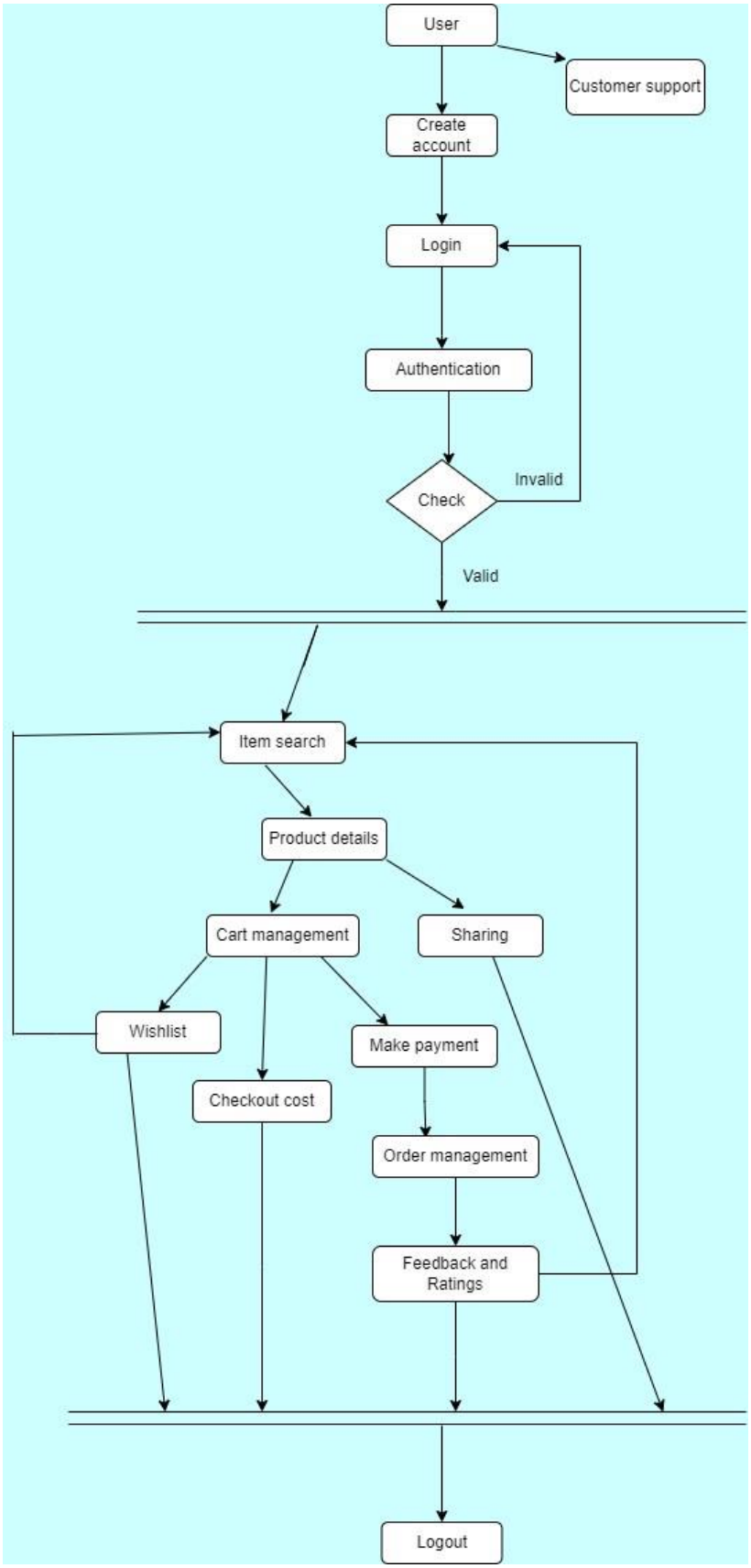
2) USE CASE DIAGRAM



3) Sequence Diagram

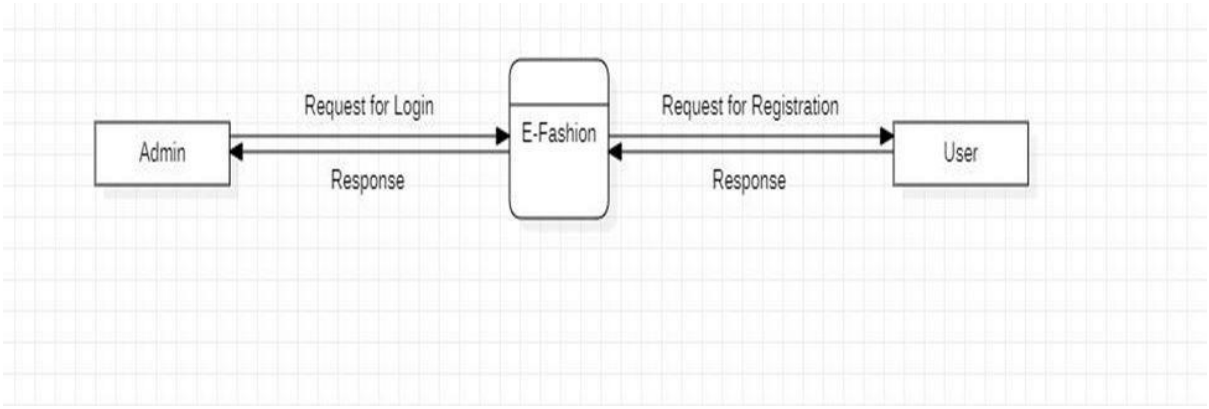


4) Activity Diagram

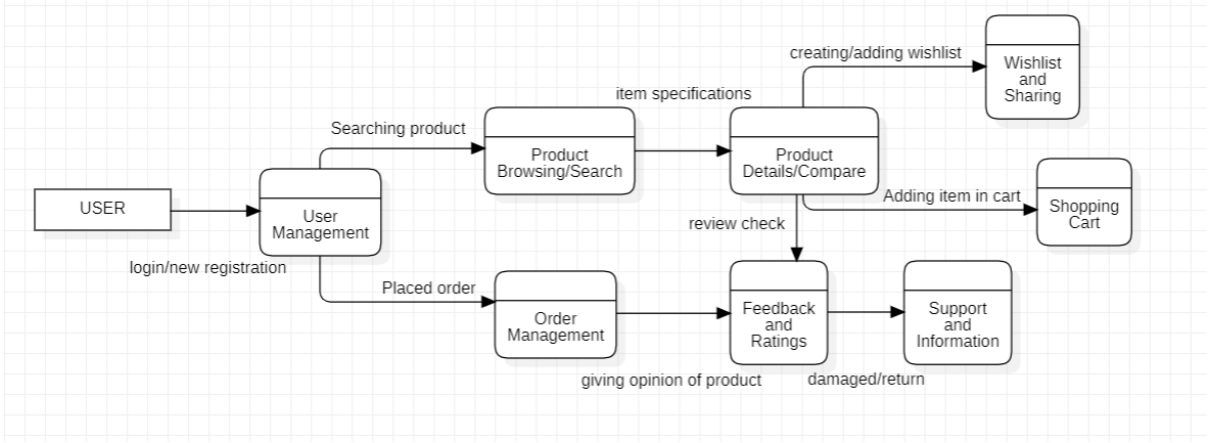


5) Data Flow Diagrams

DFD-0

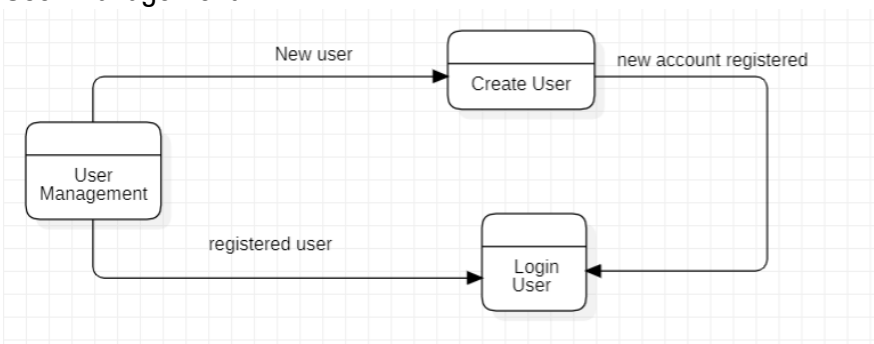


DFD-1

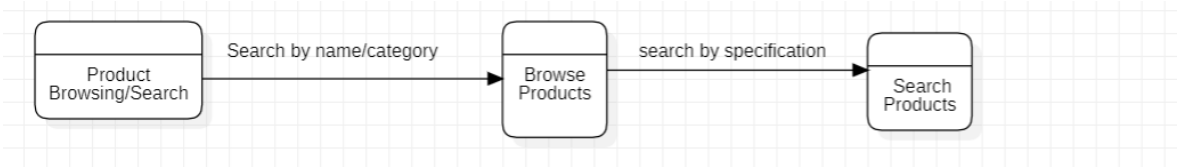


DFD-2

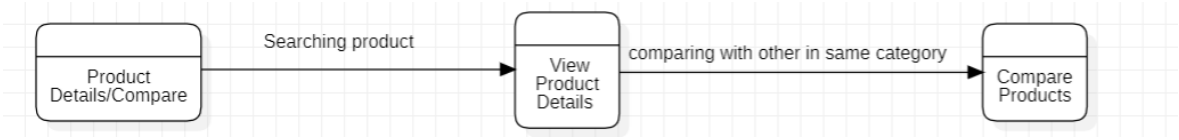
User Management:



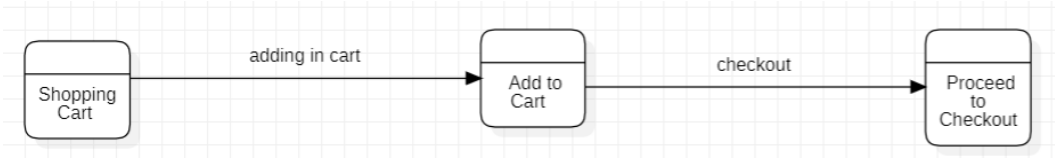
Product Browsing/Search:



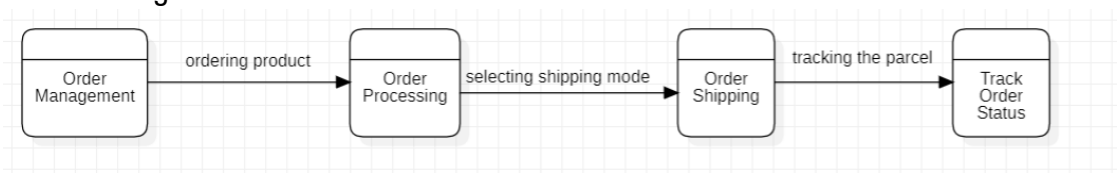
Product Details/Compare:



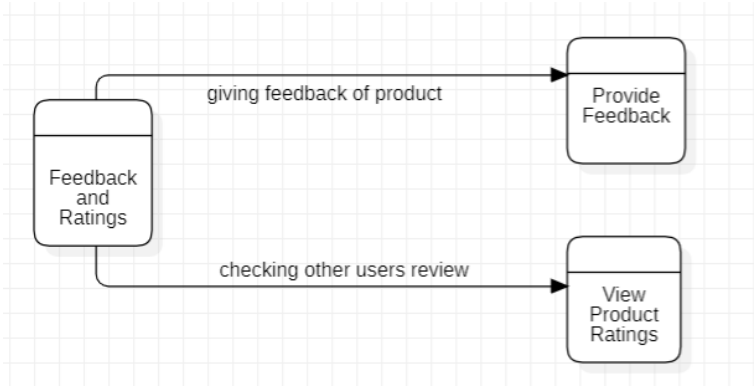
Shopping Cart:



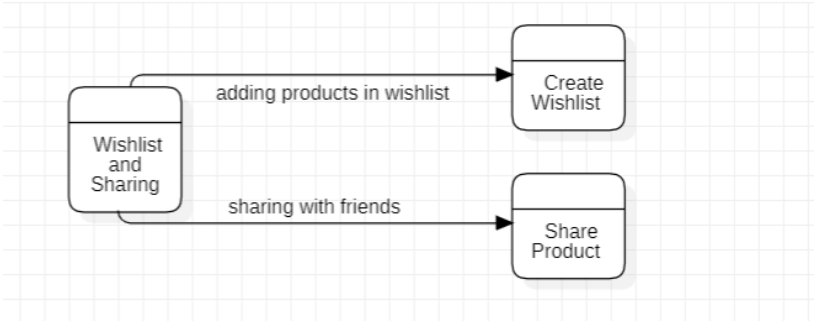
Order Management:



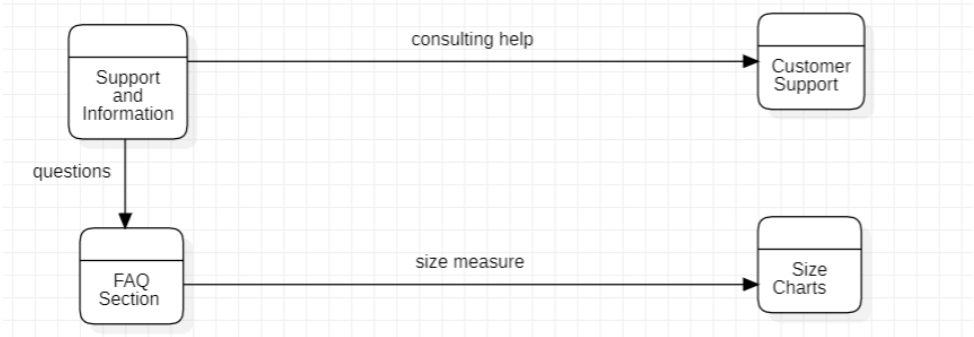
Feedback and Ratings:



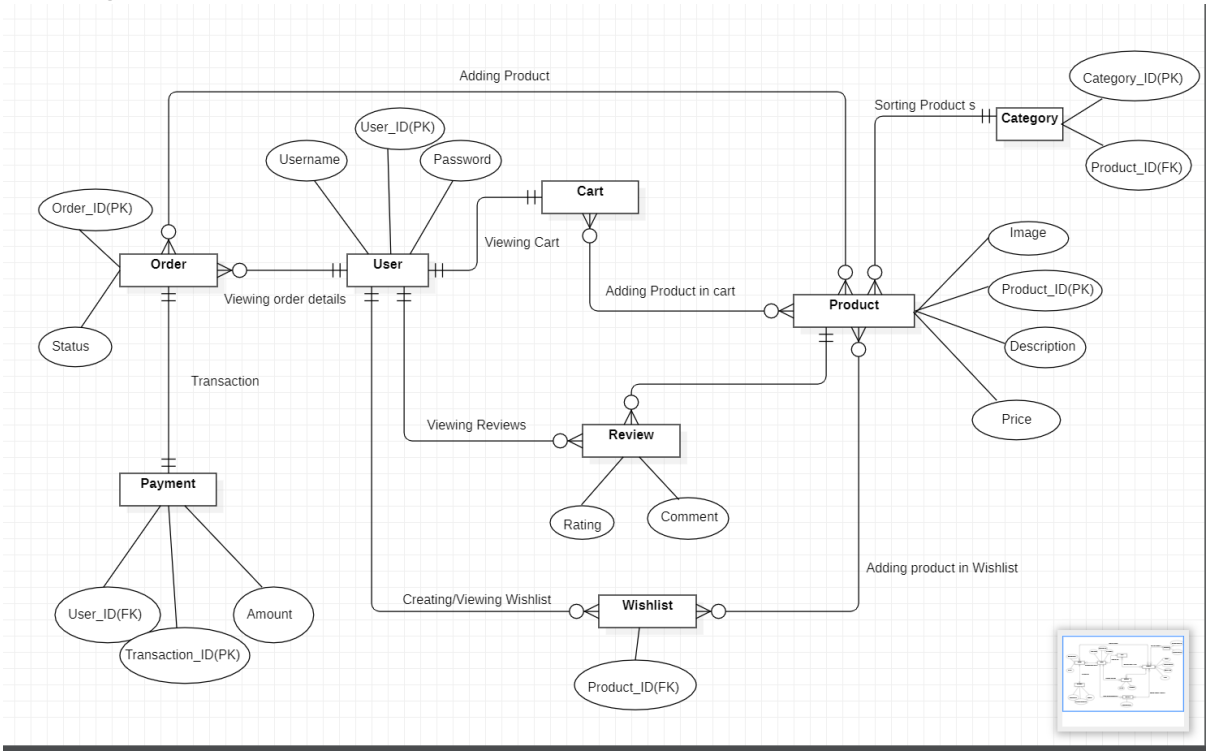
Wishlist and Sharing:



Support and Information:



6) ER Diagram



7) TEST CASES

Test Case ID	Test Scenario	Test Steps	Expected Results	Actual Results
TC001	User Registration	1. Navigate to the registration page.	User is presented with a registration form.	Registration form is displayed.
		2. Enter valid username, password, and email.	User account is successfully created.	User account is created successfully.
		3. Submit the registration form.	User is redirected to the login page.	User is redirected to the login page.
TC002	User Login	1. Navigate to the login page.	User is presented with a login form.	Login form is displayed.
		2. Enter valid username and password.	User is logged in and redirected to the homepage.	User is successfully logged in and redirected to the homepage.
		3. Click on "Remember Me" option (optional).	User's login credentials are remembered for future visits.	The "Remember Me" option works as expected.
TC003	Password Recovery	1. Click on the "Forgot Password" link on the login page.	User is presented with a password recovery form.	Password recovery form is displayed.

		2. Enter the registered email address.	Password reset instructions are sent to the user's email.	Password reset instructions are successfully sent.
		3. Follow the instructions and set a new password.	User's password is successfully reset.	User successfully sets a new password.
TC004	Product Browsing and Searching	1. Navigate to the products page.	Products are displayed in a user-friendly interface.	Products are displayed as expected.
		2. Apply filters or search for specific products.	Products displayed match the selected filters or search criteria.	Products displayed match the applied filters or search keywords.
		3. Click on a product to view its details.	Product details page is displayed with relevant information.	Product details page is displayed with accurate information.
TC005	Product Details and Comparison	1. Navigate to a product details page.	Product details, including description, images, and specifications, are displayed accurately.	Product details are displayed accurately.
		2. Verify the displayed information for accuracy.	Product details match the provided information.	The displayed information is accurate.
		3. Compare the product with similar items.	Key features, prices, and availability of the compared products are displayed accurately.	Key features, prices, and availability are displayed accurately.
TC006	Shopping Cart and Checkout	1. Add products to the shopping cart.	Selected products are added to the shopping cart successfully.	Products are successfully added to the shopping cart.
		2. Proceed to the checkout process.	User is guided through the checkout steps smoothly.	User is guided through the checkout process without any issues.
		3. Provide shipping and payment information.	Order is placed successfully, and a confirmation page is displayed.	Order is placed successfully, and the confirmation page is displayed.

TC007	Order Management	1. Access the order history or account settings.	User can view their order history and manage orders.	Order history and account settings are accessible.
		2. Verify the order details, including status and tracking information.	Order details are displayed accurately with up-to-date information.	Order details are displayed accurately.
		3. Perform actions like canceling or returning an order.	Order actions are successfully executed based on user's request.	Order actions (canceling, returning) can be performed successfully.
TC008	Feedback and Ratings	1. Navigate to the product details page.	Product details are displayed.	Product details are displayed as expected.
		2. Submit feedback or ratings for a product.	Feedback or ratings are successfully submitted.	Feedback or ratings are successfully submitted.
		3. Verify that the feedback or ratings are displayed correctly.	Feedback or ratings are displayed accurately on the product page.	Feedback or ratings are displayed accurately on the product page.
TC009	Wishlist and Sharing	1. Add products to the wishlist.	Selected products are added to the user's wishlist.	Products are added to the wishlist successfully.
		2. Share the wishlist with others (optional).	Wishlist is successfully shared with the specified recipients.	Wishlist is successfully shared with the specified recipients.
		3. Verify that the wishlist is accessible and up-to-date.	Wishlist items and sharing status are displayed accurately.	Wishlist items and sharing status are displayed accurately.
TC010	Support and Information	1. Access the support or help center section.	User is presented with support options and information.	Support options and information are displayed as expected.
		2. Seek assistance or search for information.	User receives the support or finds the relevant information.	User receives the support or finds the relevant information.

TEST CASE REPORT

The implemented module of the E-Fashion Website focuses on the product browsing and searching functionality. This module allows users to easily explore and search for fashion products based on their preferences, providing them with a convenient and efficient shopping experience.

Functional Description:

The implemented module includes the following key features and functionalities:

- User Interface: The user interface is designed using HTML, CSS, and JavaScript to create an appealing and intuitive browsing experience. The layout and design are optimized for different devices and screen sizes, ensuring responsiveness.
- Product Categories: The module categorizes fashion products into different categories, such as clothing, accessories, footwear, and more. Users can browse through these categories and access subcategories to narrow down their search.
- Search Functionality: The implemented module offers a search bar where users can enter keywords, such as product names or brands, to find specific items. The search algorithm utilizes PHP to retrieve relevant product information from the MySQL database.
- Advanced Filters: To further refine their search, users can apply advanced filters such as price range, size, color, and brand. These filters are implemented using JavaScript to dynamically update the displayed products based on the selected criteria.
- Product Display: The module retrieves product information from the MySQL database and dynamically generates product listings using PHP. Each listing includes details such as product name, price, image, and a brief description. Clicking on a product displays a detailed product page.

Implementation Details:

The module was implemented using a combination of HTML, CSS, JavaScript, PHP, and MySQL technologies. The front-end development involved creating the user interface using HTML and CSS, ensuring a visually appealing and responsive design. JavaScript was utilized to handle dynamic filtering and product listing updates without requiring page reloads.

The back-end functionality was implemented using PHP, which interacts with the MySQL database. PHP scripts were developed to handle search queries, retrieve product data from the database, and dynamically generate product listings based on user input. MySQL was used to store and manage product data, including details like product names, prices, descriptions, and images.

The implementation process followed best practices in web development, including modular and reusable code, proper data sanitization, and security measures to protect against vulnerabilities such as SQL injection.

Iteration-1:

Test Case ID	Test Case Description	Input	Expected Result	Actual Result
1	Verify if products are displayed in an interface	Open Website in browser	Products displayed in an interface	Failed
2	Verify filter by price range	Price range: ₹2000-₹50000	Display products with prices between ₹2000 and ₹50000	Failed
3	Verify filter by brand	Brand: Nike	Display products from the Nike brand	Failed
4	Verify filter by size	Size: L	Display products available in size L	Failed
5	Verify filter by color	Color: Blue	Display products available in blue color	Failed
6	Verify filter by category	Category: Dresses	Display products categorized as Dresses	Failed
7	Verify filter by multiple criteria	Brand: Nike, Size: M, Color: Black	Display Nike products available in size M and black	Failed
8	Verify combination search - Brand and Price range	Brand: Adidas, Price range: ₹5000-₹10000	Display Adidas products with prices between ₹5000-₹10000	Failed
9	Verify combination search - Brand and Color	Brand: Puma, Color: Red	Display red-colored products from the Puma brand	Failed

10	Verify combination search - Brand and Category	Brand: Reebok, Category: Shoes	Display Reebok shoes	Failed
11	Verify combination search - Size and Price range	Size: S, Price range: ₹1000-₹3500	Display products available in size S with prices ₹1000-₹3500	Failed
12	Verify combination search - Size and Color	Size: XL, Color: White	Display white-colored products available in size XL	Failed
13	Verify combination search - Size and Category	Size: M, Category: T-shirts	Display T-shirts available in size M	Failed
14	Verify combination search - Color and Price range	Color: Green, Price range: ₹3000-₹5000	Display green-colored products with prices between ₹3000-₹5000	Failed
15	Verify combination search - Color and Category	Color: Pink, Category: Dresses	Display pink-colored dresses	Failed
16	Verify combination search - Category and Price range	Category: Pants, Price range: ₹4000-₹8000	Display pants with prices between ₹4000-₹8000	Failed
17	Verify combination search - Brand, Size, and Price range	Brand: Nike, Size: L, Price range: ₹5000-₹10000	Display Nike products available in size L with prices between ₹5000-₹10000	Failed
18	Verify combination search - Brand, Size, and Color	Brand: Adidas, Size: XL, Color: Blue	Display blue-colored Adidas products in size XL	Failed
19	Verify combination search - Brand, Size, and Category	Brand: Puma, Size: 10, Category: Shoes	Display Puma shoes available in size 10	Failed
20	Verify combination search - Brand, Color, and Price range	Brand: Reebok, Color: Red, Price range: ₹3000-₹5000	Display red-colored Reebok products with prices between ₹3000-₹5000	Failed
21	Verify combination search - Brand, Color, and Category	Brand: Nike, Color: Black, Category: T-shirts	Display black-colored Nike T-shirts	Failed
22	Verify combination search - Brand, Category, and Price range	Brand: Adidas, Category: Dresses, Price range: ₹5000-₹21000	Display Adidas dresses with prices between ₹5000-₹21000	Failed
23	Verify combination search - Size, Color, and Price range	Size: S, Color: White, Price range: ₹1000-₹3000	Display white-colored products in size S with prices between ₹1000-₹3000	Failed
24	Verify combination search - Size, Color, and Category	Size: XL, Color: Green, Category: Pants	Display green-colored pants in size XL	Failed
25	Verify combination search - Size, Category, and Price range	Size: M, Category: Dresses, Price range: ₹1000-₹5000	Display dresses in size M with prices between ₹1000-₹5000	Failed
26	Verify combination search - Color, Category, and Price range	Color: Pink, Category: T-shirts, Price range: ₹1000-₹8000	Display pink-colored T-shirts with prices between ₹1000-₹8000	Failed

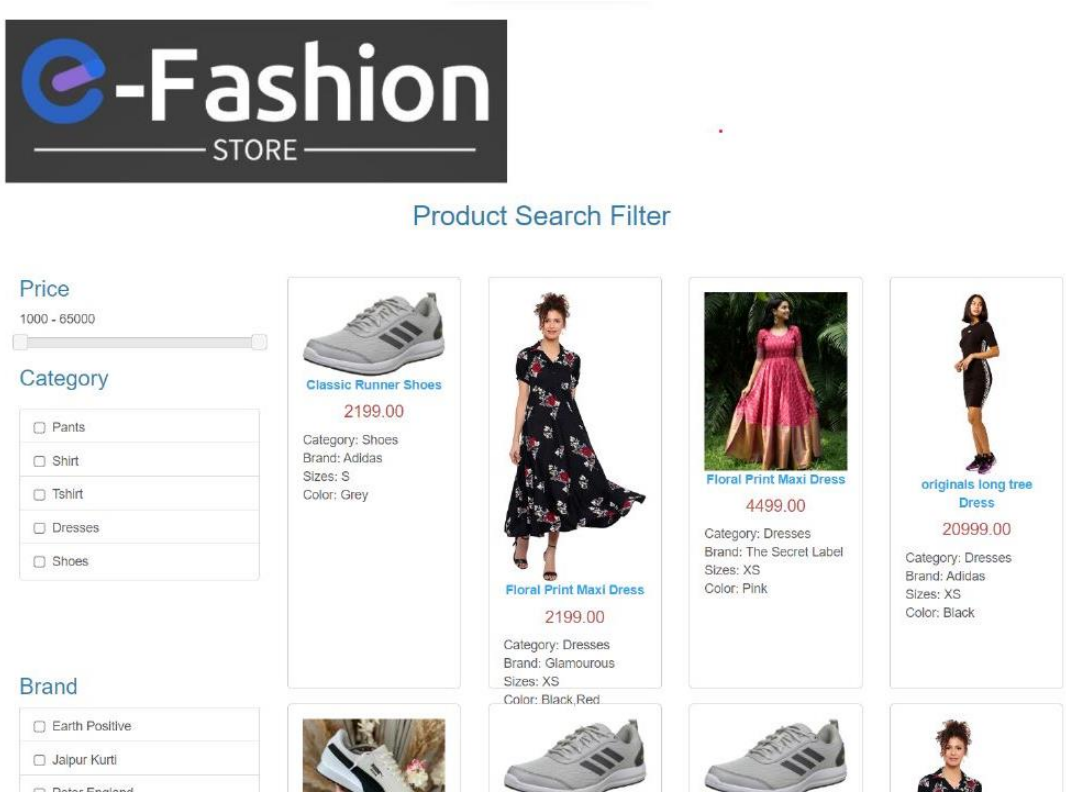
Iteration-2:

Test Case ID	Test Case Description	Input	Expected Result	Actual Result
1	Verify if products are displayed in an interface	- Open website in browser	Products displayed in an interface	Pass
2	Verify filter by price range	Price range: ₹2000-₹50000	Display products with prices between ₹2000 and ₹50000	Pass
3	Verify filter by brand	Brand: Nike	Display products from the Nike brand	Pass
4	Verify filter by size	Size: L	Display products available in size L	Pass
5	Verify filter by color	Color: Blue	Display products available in blue color	Pass
6	Verify filter by category	Category: Dresses	Display products categorized as Dresses	Pass
7	Verify filter by multiple criteria	Brand: Nike, Size: M, Color: Black	Display Nike products available in size M and black	Pass
8	Verify combination search - Brand and Price range	Brand: Reebok, Price range: ₹5000-₹10000	Display Reebok products with prices between ₹5000-₹10000	Pass
9	Verify combination search - Brand and Color	Brand: Puma, Color: Red	Display red-colored products from the Puma brand	Pass
10	Verify combination search - Brand and Category	Brand: Reebok, Category: Shoes	Display Reebok shoes	Pass
11	Verify combination search - Size and Price range	Size: S, Price range: ₹1000-₹3500	Display products available in size S with prices ₹1000-₹3500	Pass
12	Verify combination search - Size and Color	Size: XL, Color: White	Display white-colored products available in size XL	Pass
13	Verify combination search - Size and Category	Size: M, Category: T-shirts	Display T-shirts available in size M	Pass
14	Verify combination search - Color and Price range	Color: Green, Price range: ₹2500-₹5000	Display green-colored products with prices between ₹3250-₹5000	Pass

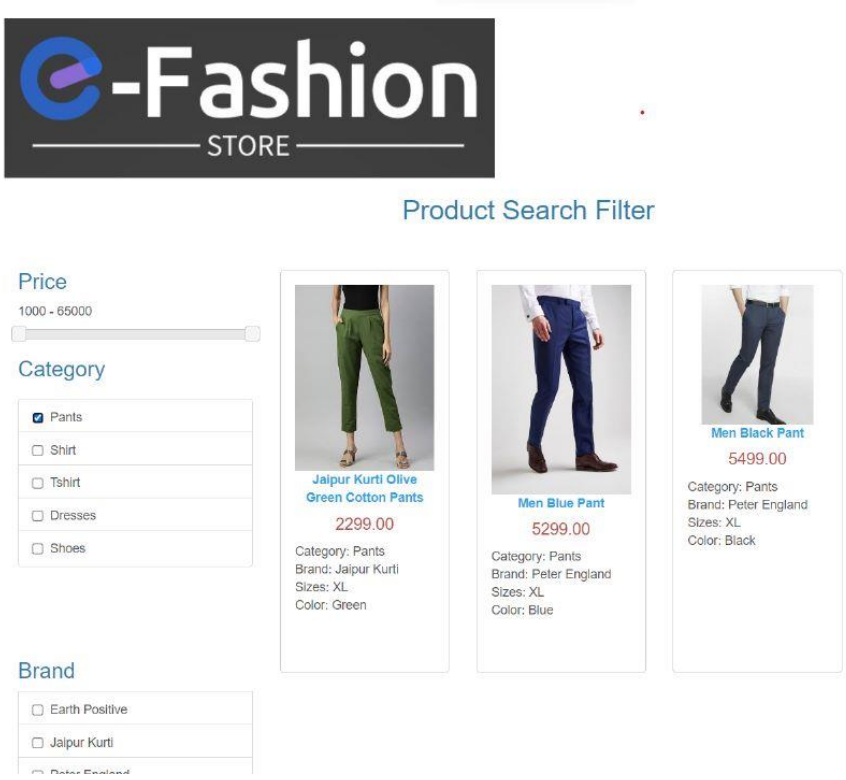
15	Verify combination search - Color and Category	Color: Pink, Category: Dresses	Display pink-colored dresses	Pass
16	Verify combination search - Category and Price range	Category: Pants, Price range: ₹4000-₹8000	Display pants with prices between ₹4000-₹8000	Pass
17	Verify combination search - Brand, Size, and Price range	Brand: Nike, Size: L, Price range: ₹5000-₹10000	Display Nike products available in size L with prices between ₹5000-₹10000	Pass
18	Verify combination search - Brand, Size, and Color	Brand: Adidas, Size: XL, Color: Blue	Display blue-colored Adidas products in size XL	Pass
19	Verify combination search - Brand, Size, and Category	Brand: Puma, Size: 10, Category: Shoes	Display Puma shoes available in size 10	Pass
20	Verify combination search - Brand, Color, and Price range	Brand: Reebok, Color: Red, Price range: ₹3000-₹50000	Display red-colored Reebok products with prices between ₹3000-₹50000	Pass
21	Verify combination search - Brand, Color, and Category	Brand: Nike, Color: Black, Category: T-shirts	Display black-colored Nike T-shirts	Pass
22	Verify combination search - Brand, Category, and Price range	Brand: Adidas, Category: Dresses, Price range: ₹5000-₹21000	Display Adidas dresses with prices between ₹5000-₹21000	Pass
23	Verify combination search - Size, Color, and Price range	Size: S, Color: White, Price range: ₹1000-₹3000	Display white-colored products in size S with prices between ₹1000-₹3000	Pass
24	Verify combination search - Size, Color, and Category	Size: XL, Color: Green, Category: Pants	Display green-colored pants in size XL	Pass
25	Verify combination search - Size, Category, and Price range	Size: M, Category: Dresses, Price range: ₹1000-₹5000	Display dresses in size M with prices between ₹1000-₹5000	Pass
26	Verify combination search - Color, Category, and Price range	Color: Pink, Category: T-shirts, Price range: ₹1000-₹8000	Display pink-colored T-shirts with prices between ₹1000-₹8000	Pass

Snapshots:

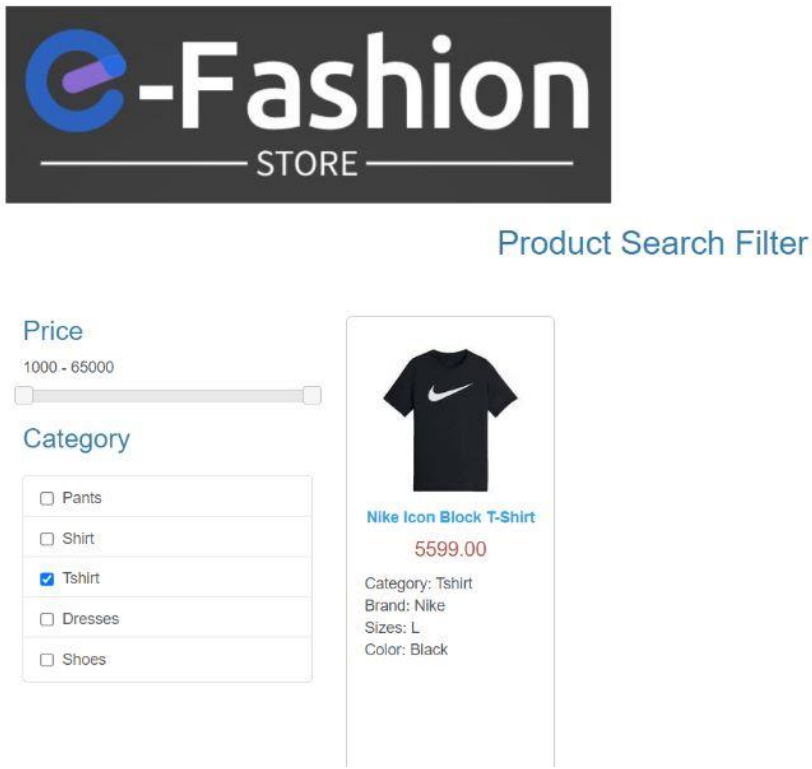
- Website Page



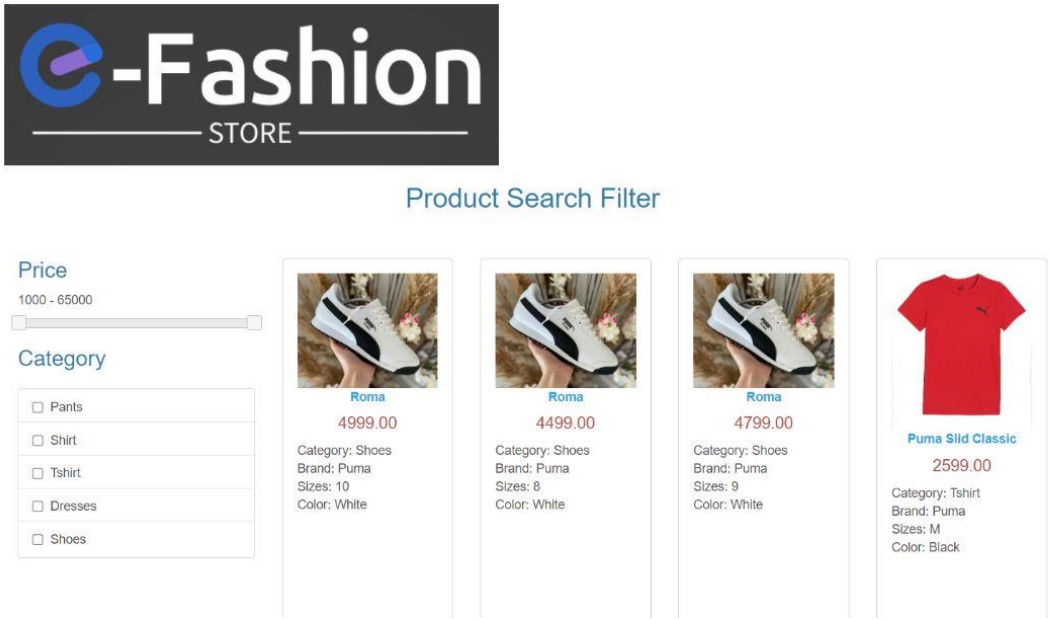
- Filter- Category(Pant)



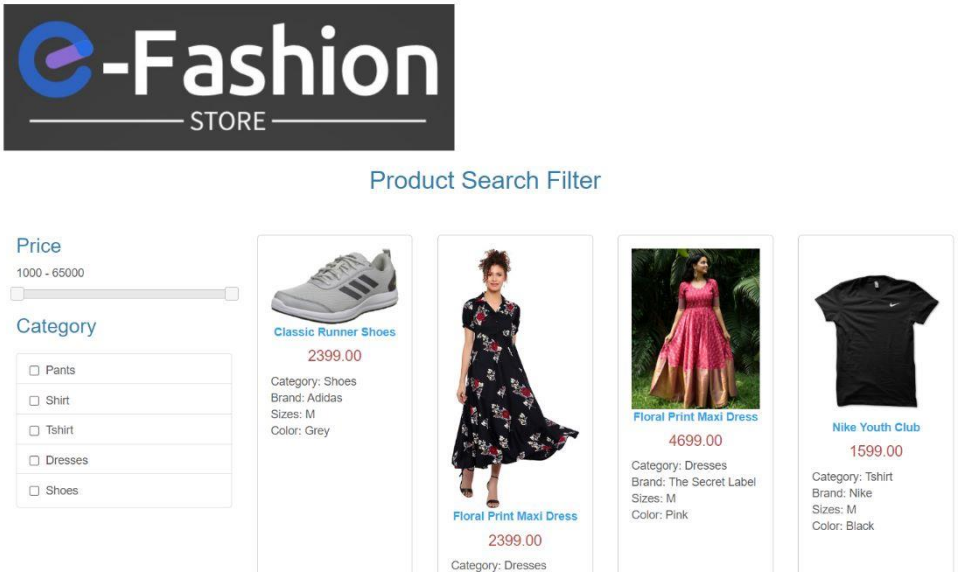
- Filters - Category(Tshirt), Brand(Nike), Size(L), Color(Black)



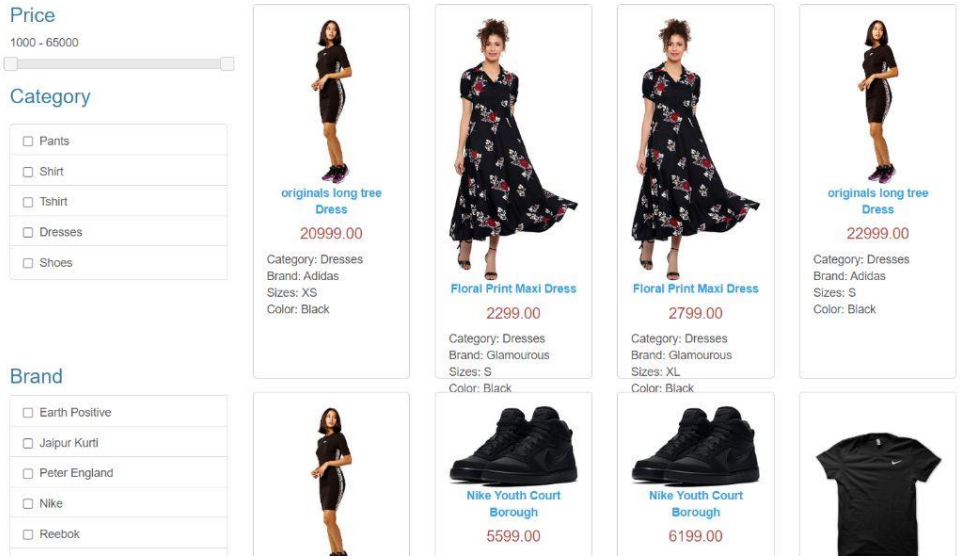
- Filter - Brand(Puma)



- Filter - Size(M)



- Filter - Color(Black)



Conclusion:

The successful implementation of the Product Browsing and Searching module using HTML, CSS, JavaScript, PHP, and MySQL has provided users of the E-Fashion Website with an efficient and enjoyable shopping experience. The module's features, including intuitive navigation, advanced filtering options, and dynamic product listings, have significantly enhanced the usability and convenience of the platform. The rigorous testing process ensured the reliability and performance of the module, contributing to the overall success of the E-Fashion Website.

Future Scope

While the current implementation of the E-Fashion Website fulfills the specified requirements and objectives, there are several avenues for future development and enhancement. Some potential future scope areas include:

- Integration with social media platforms to enable seamless sharing of products and purchase recommendations.
- Implementation of personalized recommendation systems based on user preferences, browsing history, and purchase patterns.
- Integration with third-party logistics providers for real-time shipment tracking and seamless order fulfillment.
- Expansion of the product catalog to include a wider range of fashion categories, brands, and styles.
- Integration of augmented reality (AR) or virtual reality (VR) technologies to enable virtual try-on experiences for customers.
- Integration with popular payment gateways to offer a broader range of secure payment options.
- Implementation of a loyalty program to reward frequent shoppers and encourage customer retention.
- Integration of analytics and data-driven insights to gain a deeper understanding of user behavior, preferences, and market trends.
- Development of mobile applications for iOS and Android platforms, providing users with a dedicated and optimized shopping experience.
- Collaboration with fashion influencers and designers to offer exclusive collections or limited edition products, fostering brand partnerships and customer engagement.

These future enhancements and developments will further elevate the E-Fashion Website, keeping it at the forefront of the fashion e-commerce industry and ensuring continued customer satisfaction and business growth.

Appendices

Index.php

```
<?php

// index.php

include('database_connection.php');

?>

<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1">
  <meta name="description" content="">
  <meta name="author" content="">
  <title>Software Engineering Project</title>
  <script src="js/jquery-1.10.2.min.js"></script>
  <script src="js/jquery-ui.js"></script>
  <script src="js/bootstrap.min.js"></script>
  <link rel="stylesheet" href="css/bootstrap.min.css">
  <link href="css/jquery-ui.css" rel="stylesheet">
  <!-- Custom CSS -->
  <link href="css/style.css" rel="stylesheet">
</head>

<body>
  <!-- Page Content -->
  <div class="container">
    <div class="row">
      <br />
      <img src="logo.jpg" alt="E-Fashion Store Logo">
      <h2 align="center">Product Search Filter</h2>
      <br />
      <div class="col-md-3">
        <div class="list-group">
          <h3>Price</h3>
          <input type="hidden" id="hidden_minimum_price" value="0"
/>
          <input type="hidden" id="hidden_maximum_price"
value="65000" />
          <p id="price_show">1000 - 65000</p>
```

```
          <div id="price_range"></div>
        </div>
        <div class="list-group">
          <h3>Category</h3>
          <div style="height: 280px; overflow-y: auto; overflow-x:
hidden;">
            <?php
            $query = "SELECT DISTINCT(category) FROM products  ORDER
BY product_id DESC";
            $statement = $connect->prepare($query);
            $statement->execute();
            $result = $statement->fetchAll();
            foreach ($result as $row) {
            ?>
              <div class="list-group-item checkbox">
                <label><input type="checkbox" class="common_selector
category" value="<?php echo $row['category']; ?>"> <?php echo
$row['category']; ?></label>
              </div>
            <?php
            }
            ?>
          </div>
        </div>
        <div class="list-group">
          <h3>Brand</h3>
          <?php
          $query = "SELECT DISTINCT(brand) FROM products  ORDER BY
product_id DESC";
          $statement = $connect->prepare($query);
          $statement->execute();
          $result = $statement->fetchAll();
          foreach ($result as $row) {
          ?>
            <div class="list-group-item checkbox">
              <label><input type="checkbox" class="common_selector
brand" value="<?php echo $row['brand']; ?>"> <?php echo
$row['brand']; ?></label>
            </div>
          <?php
          }
          ?>
        </div>
        <div class="list-group">
          <h3>Sizes</h3>
          <?php
          $query = "SELECT DISTINCT(sizes) FROM products  ORDER BY
sizes DESC";
```

```
          $statement = $connect->prepare($query);
          $statement->execute();
          $result = $statement->fetchAll();
          foreach ($result as $row) {
          ?>
            <div class="list-group-item checkbox">
              <label><input type="checkbox" class="common_selector
sizes" value="<?php echo $row['sizes']; ?>"> <?php echo
$row['sizes']; ?></label>
            </div>
          <?php
          }
          ?>
        </div>
        <div class="list-group">
          <h3>Colors</h3>
          <?php
          $query = "SELECT DISTINCT(colors) FROM products ORDER BY
colors DESC";
          $statement = $connect->prepare($query);
          $statement->execute();
          $result = $statement->fetchAll();
          foreach ($result as $row) {
          ?>
            <div class="list-group-item checkbox">
              <label><input type="checkbox" class="common_selector
colors" value="<?php echo $row['colors']; ?>"> <?php echo
$row['colors']; ?></label>
            </div>
          <?php
          }
          ?>
        </div>
      </div>
      <div class="col-md-9">
        <br />
        <div class="row filter_data"></div>
      </div>
    </div>
  </div>

  <style>
    #loading {
      text-align: center;
      background: url('loader.gif') no-repeat center;
      height: 250px;
    }
  </style>
```

```
  <script>
    $(document).ready(function() {
      filter_data();

      function filter_data() {
        $('.filter_data').html('<div id="loading" style=""
></div>');
        var action = 'fetch_data';
        var minimum_price = $('#hidden_minimum_price').val();
        var maximum_price = $('#hidden_maximum_price').val();
        var category = get_filter('category');
        var brand = get_filter('brand');
        var sizes = get_filter('sizes');
        var colors = get_filter('colors');
        $.ajax({
          url: "fetch_data.php",
          method: "POST",
          data: {
            action: action,
            minimum_price: minimum_price,
            maximum_price: maximum_price,
            category: category,
            brand: brand,
            sizes: sizes,
            colors: colors
          },
          success: function(data) {
            $('.filter_data').html(data);
          }
        });
      }

      function get_filter(class_name) {
        var filter = [];
        $('.' + class_name + ':checked').each(function() {
          filter.push($(this).val());
        });
        return filter;
      }

      $('.common_selector').click(function() {
        filter_data();
      });

      $('#price_range').slider({
        range: true,
        min: 1000,
```

```
        max: 65000,
        values: [1000, 65000],
        step: 500,
        stop: function(event, ui) {
          $('#price_show').html(ui.values[0] + ' - ' +
ui.values[1]);
          $('#hidden_minimum_price').val(ui.values[0]);
          $('#hidden_maximum_price').val(ui.values[1]);
          filter_data();
        }
      });
    });
  </script>
</body>

</html>
```

Fetch_data.php

```
<?php

// fetch_data.php

include('database_connection.php');

if (isset($_POST["action"])) {
  $query = "SELECT * FROM products WHERE 1";

  if (isset($_POST["minimum_price"], $_POST["maximum_price"]) &&
!empty($_POST["minimum_price"]) && !empty($_POST["maximum_price"]))
{
    $query .= " AND price BETWEEN :minimum_price AND
:maximum_price";
  }
  if (isset($_POST["category"])) {
    $category_filter = implode("','", $_POST["category"]);
    $query .= " AND category IN('" . $category_filter . "')";
  }
  if (isset($_POST["brand"])) {
    $brand_filter = implode("','", $_POST["brand"]);
    $query .= " AND brand IN('" . $brand_filter . "')";
  }
  if (isset($_POST["sizes"])) {
    $sizes_filter = implode("','", $_POST["sizes"]);
    $query .= " AND sizes IN('" . $sizes_filter . "')";
  }
  if (isset($_POST["colors"])) {
    $colors_filter = implode("','", $_POST["colors"]);
    $query .= " AND colors IN('" . $colors_filter . "')";
  }

  $statement = $connect->prepare($query);

if (isset($_POST["minimum_price"], $_POST["maximum_price"]) &&
!empty($_POST["minimum_price"]) && !empty($_POST["maximum_price"]))
{
  $statement->bindValue(':minimum_price', $_POST["minimum_price"]);
  $statement->bindValue(':maximum_price', $_POST["maximum_price"]);
}
```

```
$statement->execute();

  $result = $statement->fetchAll();
  $total_row = $statement->rowCount();
  $output = '';

  if ($total_row > 0) {
    foreach ($result as $row) {
      $output .= '
      <div class="col-sm-4 col-lg-3 col-md-3">
        <div style="border:1px solid #ccc; border-radius:5px;
padding:16px; margin-bottom:16px; height:450px;">
          <img src="image/' . $row['image'] . '" alt="" class="img-
responsive" style="width:100%; height:100;" >
          <p align="center"><strong><a href="#">' . $row['name'] .
'</a></strong></p>
          <h4 style="text-align:center;" class="text-danger">' .
$row['price'] . '</h4>
          <p>Category: ' . $row['category'] . ' <br />
          Brand: ' . $row['brand'] . ' <br />
          Sizes: ' . $row['sizes'] . ' <br />
          Color: ' . $row['colors'] . ' </p>
        </div>
      </div>
      ';
    }
  } else {
    $output = '<h3>No Data Found</h3>';
  }

  echo $output;
}

?>
```

Database_Connection.php

```
<?php

//database_connection.php

$connect = new PDO("mysql:host=localhost;dbname=seproject", "root",
"");

?>
```

SEProject.sql

```
-- phpMyAdmin SQL Dump

-- version 5.2.1

-- https://www.phpmyadmin.net/

--

-- Host: 127.0.0.1

-- Generation Time: Jun 19, 2023 at 10:24 AM

-- Server version: 10.4.28-MariaDB

-- PHP Version: 8.2.4


SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";

START TRANSACTION;

SET time_zone = "+00:00";



/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;

/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;

/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;

/*!40101 SET NAMES utf8mb4 */;


--
```

```
-- Database: `seproject`
--

-- --------------------------------------------------------

--
-- Table structure for table `products`
--

CREATE TABLE `products` (
  `product_id` int(11) NOT NULL,
  `category` varchar(255) DEFAULT NULL,
  `colors` varchar(255) DEFAULT NULL,
  `sizes` varchar(255) DEFAULT NULL,
  `name` varchar(255) DEFAULT NULL,
  `brand` varchar(255) DEFAULT NULL,
  `image` varchar(255) DEFAULT NULL,
  `price` decimal(10,2) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;

--
-- Dumping data for table `products`
--

INSERT INTO `products` (`product_id`, `category`, `colors`, `sizes`,
`name`, `brand`, `image`, `price`) VALUES
(1, 'Shoes', 'Grey', 'S', 'Classic Runner Shoes', 'Adidas', 'Shoes1.jpg',
2199.00),
(2, 'Dresses', 'Black,Red', 'XS', 'Floral Print Maxi Dress', 'Glamourous',
'Dress1.jpg', 2199.00),
(3, 'Dresses', 'Pink', 'XS', 'Floral Print Maxi Dress', 'The Secret
Label', 'Dress2.jpg', 4499.00),
(4, 'Dresses', 'Black', 'XS', 'originals long tree Dress', 'Adidas',
'Dress3.jpg', 20999.00),
```

```
(5, 'Shoes', 'White', '10', 'Roma', 'Puma', 'Shoes4.jpg', 4999.00),

(7, 'Shoes', 'Grey', 'M', 'Classic Runner Shoes', 'Adidas', 'Shoes1.jpg',
2399.00),

(8, 'Shoes', 'Grey', 'L', 'Classic Runner Shoes', 'Adidas', 'Shoes1.jpg',
2999.00),

(9, 'Dresses', 'Black', 'S', 'Floral Print Maxi Dress', 'Glamourous',
'Dress1.jpg', 2299.00),

(10, 'Dresses', 'Red', 'M', 'Floral Print Maxi Dress', 'Glamourous',
'Dress1.jpg', 2399.00),

(11, 'Dresses', 'Red', 'L', 'Floral Print Maxi Dress', 'Glamourous',
'Dress1.jpg', 2499.00),

(12, 'Dresses', 'Black', 'XL', 'Floral Print Maxi Dress', 'Glamourous',
'Dress1.jpg', 2799.00),

(13, 'Dresses', 'Pink', 'M', 'Floral Print Maxi Dress', 'The Secret
Label', 'Dress2.jpg', 4699.00),

(14, 'Dresses', 'Pink', 'L', 'Floral Print Maxi Dress', 'The Secret
Label', 'Dress2.jpg', 4899.00),

(15, 'Dresses', 'Black', 'S', 'originals long tree Dress', 'Adidas',
'Dress3.jpg', 22999.00),

(16, 'Dresses', 'Black', 'L', 'originals long tree Dress', 'Adidas',
'Dress3.jpg', 24999.00),

(17, 'Shoes', 'White', '8', 'Roma', 'Puma', 'Shoes4.jpg', 4499.00),

(18, 'Shoes', 'White', '9', 'Roma', 'Puma', 'Shoes4.jpg', 4799.00),

(19, 'Shoes', 'White', '10', 'Reebok Zig Dynamica 4 Shoes', 'Reebok',
'Shoes5.jpeg', 5999.00),

(20, 'Shoes', 'White', '7', 'Reebok Zig Dynamica 4 Shoes', 'Reebok',
'Shoes5.jpeg', 5499.00),

(6, 'Shoes', 'White', '9', 'Reebok Zig Dynamica 4 Shoes', 'Reebok',
'Shoes5.jpeg', 5599.00),

(21, 'Shoes', 'Black', '9', 'Nike Youth Court Borough', 'Nike',
'Shoes2.jpeg', 5599.00),

(22, 'Shoes', 'Black', '10', 'Nike Youth Court Borough', 'Nike',
'Shoes2.jpeg', 6199.00),

(23, 'Tshirt', 'Black', 'M', 'Nike Youth Club', 'Nike', 'Tshirt1.jpeg',
1599.00),

(24, 'Tshirt', 'Black', 'M', 'Puma Slid Classic', 'Puma', 'Tshirt2.jpeg',
2599.00),
```

```
(25, 'Shirt', 'White', 'XL', 'Peter Classic', 'Peter England',
'Shirt2.jpg', 2599.00),

(26, 'Shirt', 'Green', 'XL', 'Peter Classic', 'Peter England',
'Shirt7.jpg', 2799.00),

(27, 'Shirt', 'Green', 'M', 'Party Classic', 'Peter England',
'Shirt6.jpg', 2599.00),

(28, 'Pants', 'Green', 'XL', 'Jaipur Kurti Olive Green Cotton Pants',
'Jaipur Kurti', 'Pant3.jpeg', 2299.00),

(29, 'Shirt', 'Pink', 'L', 'Men Cotton Shirt', 'Peter England',
'Shirt2.jpg', 2999.00),

(30, 'Pants', 'Blue', 'XL', 'Men Blue Pant', 'Peter England',
'Pant2.jpeg', 5299.00),

(30, 'Pants', 'Black', 'XL', 'Men Black Pant', 'Peter England',
'Pant1.jpeg', 5499.00),

(31, 'Shoes', 'Red', '10', 'SOFTRIDE Enzo Nxt Men Running Shoes ', 'Puma',
'Shoes6.jpg', 3599.00),

(32, 'Tshirt', 'Black', 'L', 'Nike Icon Block T-Shirt ', 'Nike',
'Tshirt5.jpeg', 5599.00),

(33, 'Tshirt', 'Pink', 'L', 'Organic T-Shirt - bright pink ', 'Earth
Positive', 'Tshirt4.jpeg', 3599.00),

(34, 'Tshirt', 'Blue', 'XL', 'Adidas Icon Block T-Shirt ', 'Adidas',
'Tshirt3.jpeg', 5599.00),

(36, 'Shirt', 'White', 'S', 'Organic Shirt - White ', 'Earth Positive',
'shirt2.jpg', 1599.00),

(35, 'Tshirt', 'Red', 'S', 'Reebok UFC Mens Red Fan Gear Official Logo T-
Shirt  ', 'Reebok', 'Tshirt6.jpg', 4599.00);

COMMIT;


/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;

/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;

/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

E-Fashion Store File:

https://docs.google.com/document/d/1gpAV_2lQh3U7NqoWsLfip9i_iZV1_jvn/edit?usp=sharing&ouid=109179888752290499539&rtpof=true&sd=true