



# WEB & TECH

Assignment 03

# Proposal for E-commerce Website Development

## Group Members:

**Name: Muhammad Hammad, Mahmood Mazhar, Majid Khan.**

**Enrollment NO: 01-135211-102.**

**Enrollment No: 01-135212-036**

**Enrollment No: 01-135212-108**

**Class: BS-IT 5(A).**

## Introduction:

We are pleased to submit this proposal for the development of an E-commerce website. In today's digital age, an E-commerce platform is essential for businesses to reach a wider audience and provide a seamless shopping experience. This proposal outlines the functional and non-functional requirements for the successful implementation of the E-commerce website.

## Functional Requirements:

### 1. User Registration and Authentication:

Users should be able to create accounts, log in, and recover forgotten passwords.

Differentiate between customers and administrators with separate login access.

Implement a secure authentication mechanism.

### 2. Product Catalog:

Display products in a categorized and organized manner.

Include product details, prices, images, and availability status.

Implement a search and filter feature for easy product discovery.

### **3. Shopping Cart:**

Allow users to add, remove, and update items in their shopping cart.

Calculate and display the total order amount.

Save cart contents between sessions for registered users.

### **4. Checkout Process:**

A streamlined and user-friendly checkout process.

Support multiple payment methods (credit card, PayPal, etc.).

Enable guest checkout while encouraging user registration.

### **5. Order Management:**

Allow users to view and track their order history.

Send email notifications for order confirmation, shipping updates, and delivery.

Provide an option to cancel orders within a certain timeframe.

### **6. Product Reviews and Ratings:**

Allow customers to leave reviews and ratings for products.

Display average ratings and sort products by popularity.

Enable administrators to moderate and manage reviews.

### **7. Inventory Management:**

Automatically update product availability based on purchases.

Alert administrators when stock levels are low.

Implement a back-order system if a product is out of stock.

## **8. Admin Panel:**

User-friendly dashboard for managing products, orders, and customers.

Create, update, and delete product listings easily.

Monitor sales, revenue, and user analytics.

## **9. Security:**

Implement SSL certificates for secure transactions.

Protect user data and payment information.

Regularly update and patch the system to address security vulnerabilities.

## **Non-Functional Requirements:**

### **1. Performance:**

Ensure fast page loading times and responsive design.

Handle high concurrent user loads during peak times.

Optimize images and code for performance.

### **2. Scalability:**

Design the system to accommodate future growth and increasing product listings.

Implement load balancing and caching mechanisms.

### **3. Usability:**

Ensure an intuitive and user-friendly interface. Conduct usability testing and gather user feedback for continuous improvement.

### **4. Accessibility:**

Comply with WCAG (Web Content Accessibility Guidelines) for accessibility standards.

Ensure the website is usable by people with disabilities.

## **5. Mobile Responsiveness:**

Ensure the website is fully responsive and functional on mobile devices.

Develop a dedicated mobile app or a progressive web app for enhanced mobile experience.

## **6. Data Backup and Recovery:**

Regularly backup website data and ensure quick recovery in case of data loss.

Implement disaster recovery plans and backup redundancy.

## **7. Compliance:**

Comply with relevant data protection and privacy regulations (e.g., GDPR, CCPA).

Securely handle and store customer data.

## **8. Testing:**

Perform thorough testing, including functional, usability, security, and performance testing.

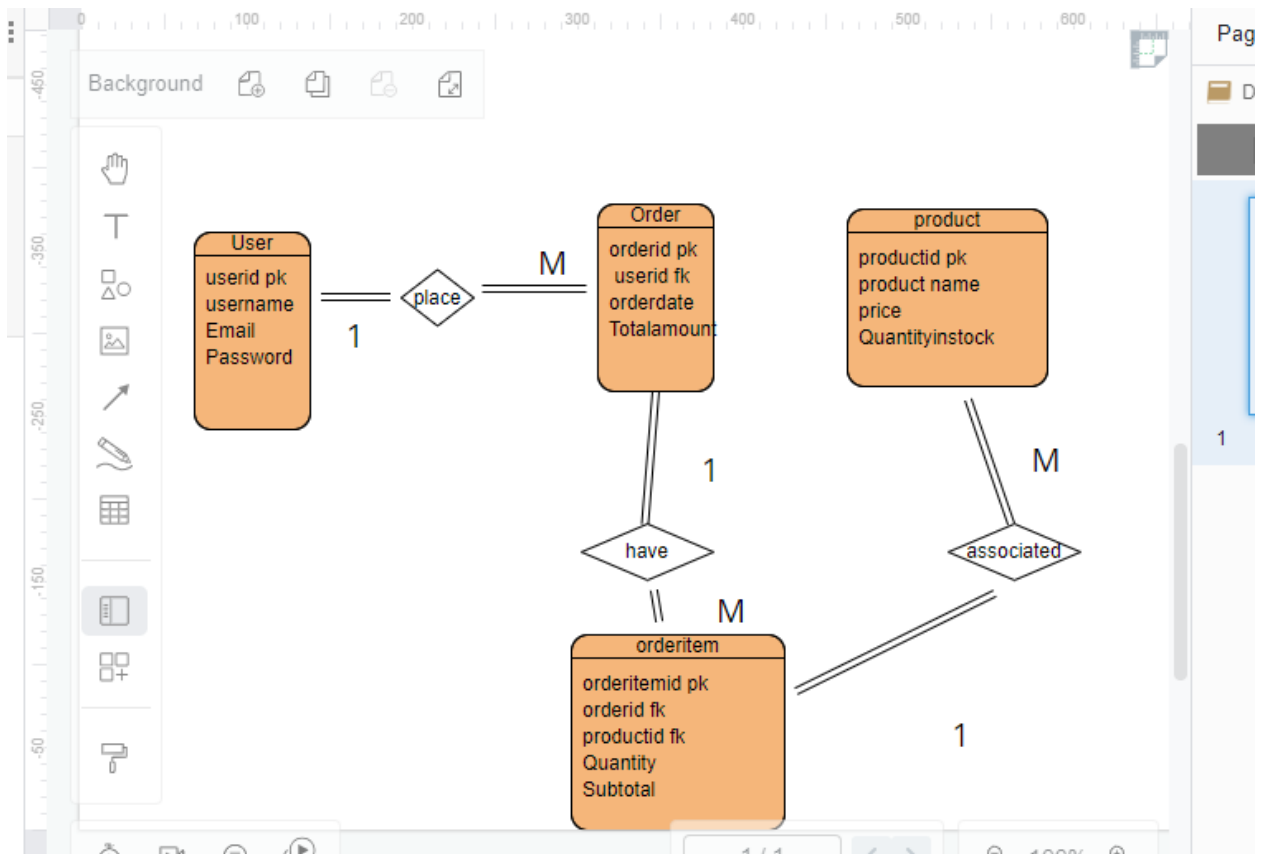
Identify and fix any bugs or issues before the website launch.

## **9. Maintenance and Support:**

Offer ongoing maintenance and support services post-launch.

Provide customer support for inquiries and issues.

## **Erd Diagram:**



**Q:2)**

Ans)

**Code:**

```
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Hammads Store</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
    <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"
```

```

        integrity="sha384-
C6RzsynM9kwDrMNeT87bh950GNyZPhcTNXj1NW7RuBCsyN/o0jlpcV8Qyq46cDfL"
        crossorigin="anonymous"></script>
<style>
    footer{
        background-color: #f2f2f2;
        padding: 25px;
    }
    .carousel-inner img
    {

        width: 100%;
        min-height:200px;
    }
    @media (max-width: 600px)
    {
        .carousel-caption{
            display: none;
        }
    }
</style>
</head>
<body>
    <form id="form1" runat="server">
        <div class="jumbotron text-center" style="margin-bottom: 0; background-
color: crimson">
            <h1>Hammad's E-store</h1>
            <p>Quality Matters the most!</p>
        </div>
        <nav class=" navbar navbar-inverse">
            <div class="container-fluid">
                <div class="navbar-header">
                    <button type="button" class="navbar-toggle" data-
toggle="collapse" data-target="#mynavbar">
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                        <span class="icon-bar"></span>
                    </button>
                    <a class="navbar-brand" href="WebForm1.aspx">E Store</a>
                </div>
                <div class="collapse navbar-collapse" id="myNavbar">
                    <ul class="nav navbar-nav">
                        <li class="active"><a href="WebForm1.aspx">Home</a></li>
                        <li><a href="#">About</a></li>
                        <li><a href="#">Contact</a></li>
                        <li><a href="#">Blog</a></li>
                        <li><a href="#">Product</a></li>
                    </ul>
                    <ul class="nav navbar-nav navbar-right">
                        <li><a href="loginpage.aspx"><span class="glyphicon
glyphicon-log-in"></span>Log in</a></li>
                    </ul>
                </div>
            </div>
        </nav>
        <div class="container">
            <div class="row">
                <div class="col-sm-8">

```

```


- </li>
- </li>
- </li>
</ol>


![image](logo/image1.jpg.jpg)

### Offer</h3> Clothes</p> </div> </div> imageImage 2</h3> Clothes</p> </div> </div> imageImage 3</h3> Clothes</p> </div> </div> </div> </div> <a class="left carousel-control" href="#myCarousel" role="button" data-slide="prev"> Some text</p> </div> Upcoming Events</p> </div> Visit our blog</p> </div> </div> </div> </div>


```



```

<div class="container text-center">
  <h3>Product</h3>
  <br />
  <div class="row">
    <div class="col-sm-3">
      
      <p>Current Project</p>
    </div>
    <div class="col-sm-3">
      
      <p>Project 2</p>
    </div>
    <div class="col-sm-3">
      <div class="well">
        <p>Some text..</p>
      </div>
      <div class="well">
        <p>Some text..</p>
      </div>
    </div>
    <div class="col-sm-3">
      <div class="well">
        <p>Some text..</p>
      </div>
      <div class="well">
        <p>Some text..</p>
      </div>
    </div>
  </div>
  <hr />
</div>
<div class="container text-center">
  <h3>Our partners</h3>
  <br />
  <div class="row">
    <div class="col-sm-2">
      
      <p>Partner 1</p>
    </div>
    <div class="col-sm-2">
      
      <p>Partner 2</p>
    </div>
    <div class="col-sm-2">
      
      <p>Partner 3</p>
    </div>
    <div class="col-sm-2">
      
      <p>Partner 4</p>
    </div>
  </div>

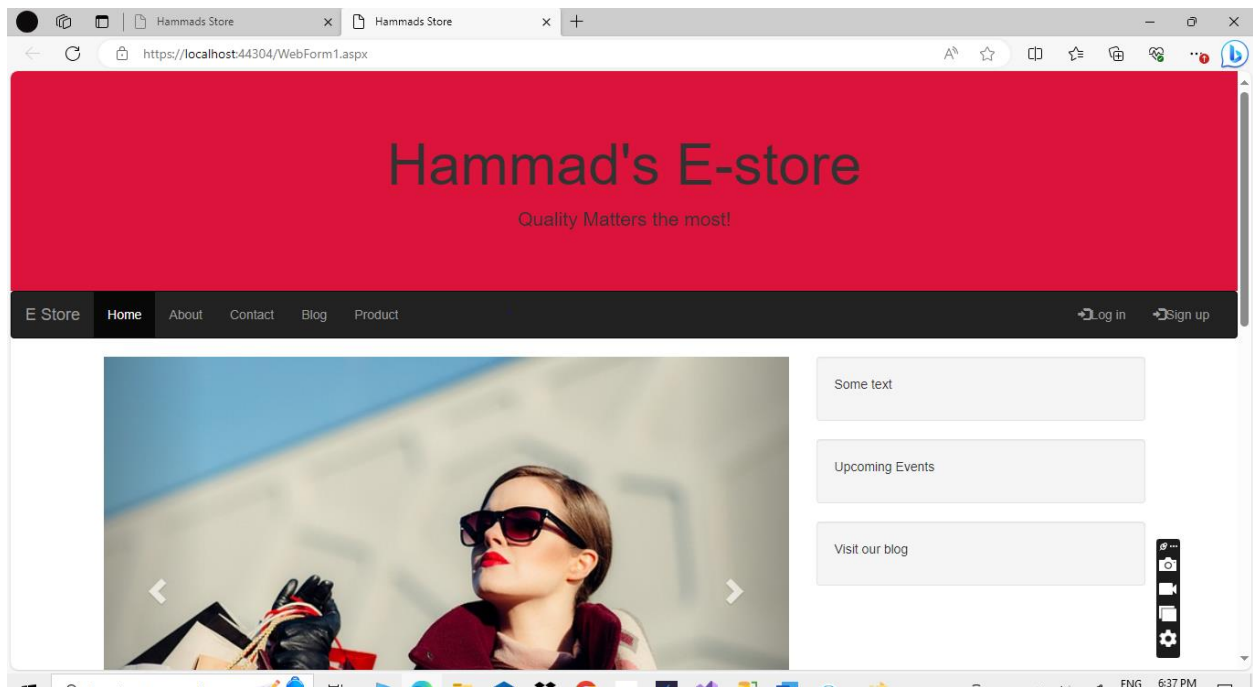
```

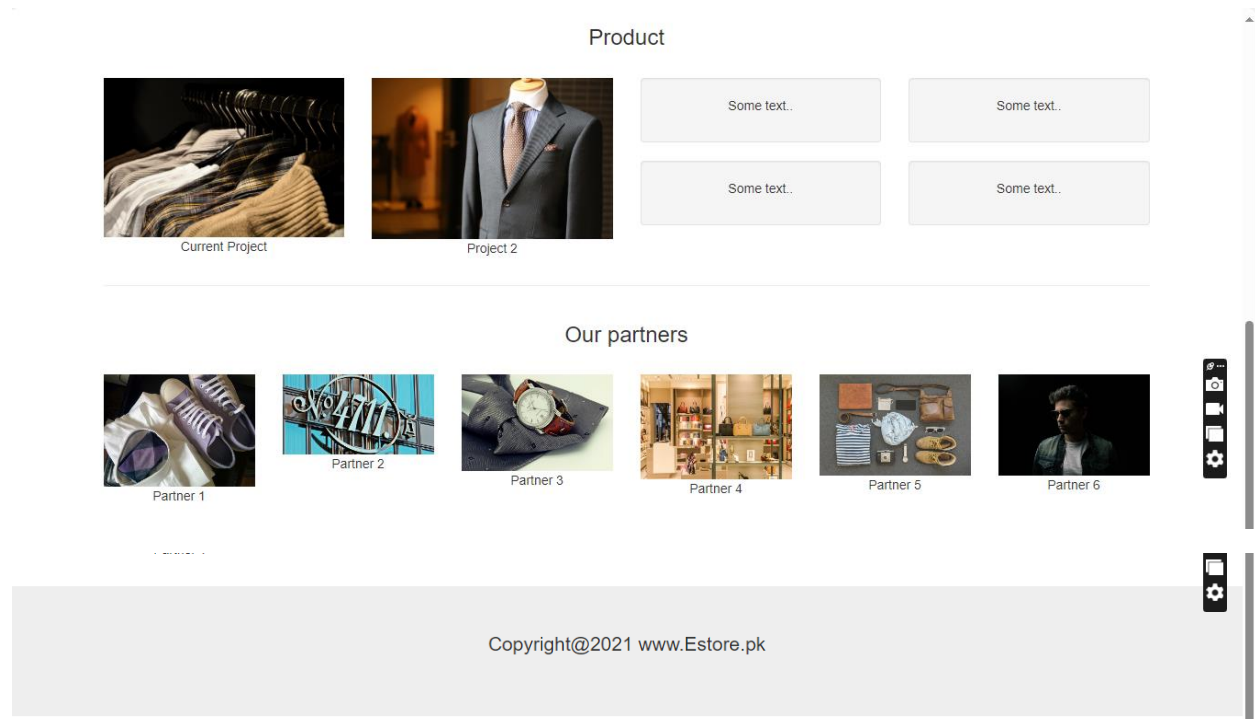
```

        
        <p>Partner 5</p>
    </div>
    <div class="col-sm-2">
        
        <p>Partner 6</p>
    </div>
</div>
<br />
<footer class="container-fluid text-center jumbotron">
    <p>Copyright@2021 www.Estore.pk</p>
</footer>
</form>
</body>
</html>

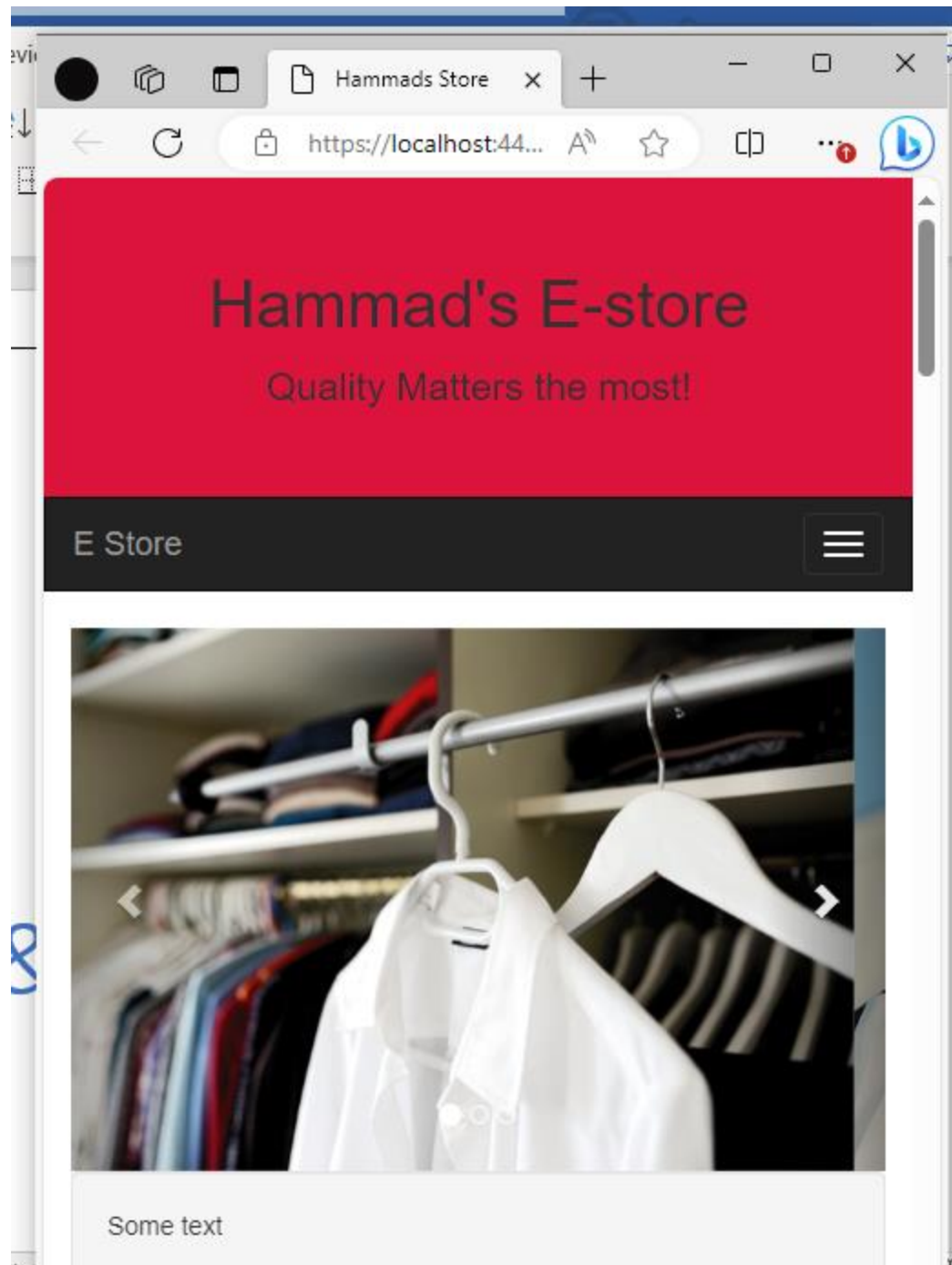
```

## Output:





**Responsiveness:**





Current Project



Project 2

