

Front End Engineering-II

Project Report

Semester-IV (Batch-2022)

E-Commerce Website



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Abstract

The rapid growth of E-commerce has transformed the retail landscape, reshaping how consumers shop and interact with products and services online. This abstract encapsulates the essence and objectives of a frontend development project focused on enhancing user experience in E-commerce through an intuitive and feature-rich website.

The project aims to address the following key objectives:

1. **User Account Management:** The website enables users to create accounts, facilitating personalized experiences and streamlined checkout processes. Account management features include registration, login, password recovery, and profile editing functionalities.
2. **Seamless Cart Management:** A robust cart management system is implemented, allowing users to add items to their carts, modify quantities, and remove items as needed. The cart interface provides real-time updates on the total price and item count, enhancing transparency and convenience during the shopping process.
3. **Intuitive Navigation and Search:** The website features an intuitive navigation structure, enabling users to explore product categories and subcategories effortlessly. A powerful search functionality is integrated, allowing users to quickly find specific products based on keywords, categories, or attributes.
4. **User Feedback and Interaction:** Interactive elements such as product ratings, reviews, and recommendations are incorporated to encourage user engagement and facilitate informed purchasing decisions. User feedback mechanisms empower customers to share their experiences and insights, fostering a sense of community and trust.
5. **Accessibility and Performance:** The website prioritizes accessibility standards, ensuring compliance with web accessibility guidelines to accommodate users with diverse needs and disabilities. Performance optimization techniques are implemented to minimize loading times and deliver a seamless browsing experience.

In summary, the frontend development project aims to elevate the E-commerce experience by prioritizing user-centric design, functionality, and accessibility. Through iterative design iterations and user testing, the website endeavors to become a preferred destination for online shoppers, providing a seamless and engaging platform for discovering and purchasing products and services.

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Introduction:

In the contemporary digital landscape, electronic commerce, or e-commerce, stands as a cornerstone of modern business operations. The proliferation of internet connectivity and the evolution of user behaviours have catalysed the exponential growth of online shopping platforms. At the heart of this digital transformation lies the front-end development, where user interfaces are crafted to provide seamless and engaging experiences for customers.

This project report delves into the intricacies of front-end development within the realm of e-commerce, with a particular focus on the implementation of essential features: a fully functional cart, a dynamic search bar, and an intuitive login page. These features serve as the bedrock of user interaction within an e-commerce platform, facilitating navigation, exploration, and transactional activities.

The implementation of a fully functional cart system represents a critical component of any e-commerce website. Through meticulous design and development, the cart feature enables users to add, remove, and modify items in their shopping cart seamlessly. By integrating dynamic updates and intuitive user interactions, the cart system enhances the overall shopping experience, streamlining the checkout process and fostering customer satisfaction.

Additionally, the inclusion of a dynamic search bar empowers users to swiftly discover products of interest amidst the vast inventory of an e-commerce website. Leveraging advanced search algorithms and user-centric design principles, the search bar functionality enhances discoverability and navigation, enabling users to find relevant products with minimal effort.

Furthermore, the implementation of a user-friendly login page serves as a gateway to personalized shopping experiences and enhanced security measures. By providing users with secure authentication mechanisms and streamlined login processes, the login page fosters trust and confidence among users, encouraging repeat visits and driving customer retention.

Through meticulous attention to detail and adherence to modern front-end development practices, the cart, search bar, and login page functionalities converge to create a cohesive and immersive e-commerce experience. By prioritizing usability, performance, and accessibility, developers can empower businesses to thrive in the dynamic landscape of online commerce.

This project report aims to provide a comprehensive overview of the design, development, and implementation of these essential front-end features within the context of e-commerce websites.

Objectives:

The primary objective of this project is to conceptualize, design, and develop a user-centric E-commerce website that encapsulates the ethos of modern online retailing while addressing the evolving needs and preferences of consumers. The project encompasses the following specific objectives:

- To create an intuitive and visually appealing user interface that enhances user engagement and facilitates seamless navigation.
- To implement robust account management features, including user registration, login, and profile editing functionalities, to personalize the user experience.
- To integrate a comprehensive cart management system that enables users to add, remove, and modify items in their carts, thereby streamlining the checkout process.
- To incorporate advanced search and filtering functionalities that empower users to discover products based on their preferences, categories, and attributes.
- To optimize the website for responsiveness, accessibility, and performance across various devices and screen sizes, ensuring a consistent and enjoyable user experience.
- To leverage user feedback mechanisms, such as product ratings, reviews, and recommendations, to foster community engagement and trust.

Significance:

The significance of this project lies in its potential to redefine the E-commerce landscape by delivering a user-centric, feature-rich platform that transcends conventional boundaries and sets new standards for online retailing. By amalgamating cutting-edge technology, design principles, and consumer insights, the project endeavours to:

- Enhance the overall user experience and satisfaction, thereby increasing customer retention and loyalty.
- Foster brand differentiation and competitive advantage in a crowded marketplace.
- Drive sales and revenue growth through personalized recommendations, streamlined checkout processes, and intuitive navigation.
- Establish a strong foundation for future scalability, innovation, and expansion in response to evolving market dynamics and consumer preferences.

In essence, the project represents a concerted effort to harness the transformative potential of E-commerce to create value for stakeholders, empower consumers, and shape the future of digital commerce.

Scope:

The scope of the project encompasses the conceptualization, design, development, testing, and deployment of a frontend E-commerce website prototype. While the project primarily focuses on frontend aspects, including user interface design, navigation, and user experience enhancements, it may also involve integration with backend systems and third-party services to enable core functionalities such as account management, cart management, and search capabilities.

The project will adhere to established best practices, standards, and guidelines in web development and user interface design, with an emphasis on responsiveness, accessibility, and performance optimization. Additionally, the project may involve user research, usability testing, and iterative design iterations to gather feedback and iterate on the prototype's design and functionality.

Overall, the project seeks to deliver a tangible and demonstrable prototype that showcases the envisioned E-commerce experience and sets the stage for future enhancements, iterations, and scalability.

Problem Statement:

In the landscape of modern e-commerce, the success of an online store hinges significantly on the effectiveness and efficiency of its front-end components. While creating a fully functional cart, search bar, and login page marks essential milestones in the development of an e-commerce website, several challenges and considerations persist that warrant attention and resolution.

1. User Experience Optimization:

- a. Ensure that the cart, search bar, and login page are seamlessly integrated into the website's overall user interface, providing intuitive navigation and effortless interaction.
- b. Address usability issues such as responsiveness across devices, accessibility for users with disabilities, and intuitive design for users of varying technical proficiency.

2. Performance and Scalability:

- a. Develop front-end components that prioritize performance optimization to minimize loading times and enhance user satisfaction.
- b. Implement scalable solutions to accommodate increasing user traffic and data processing demands without compromising website performance.

3. Security and Authentication:

- a. Implement robust authentication mechanisms for the login page to safeguard user credentials and prevent unauthorized access.
- b. Employ encryption techniques and secure protocols to protect sensitive information exchanged during the login process.

4. Search Functionality and Navigation:

- a. Enhance the search bar functionality to deliver relevant and accurate search results, including product suggestions, filtering options, and advanced search capabilities.
- b. Optimize navigation within the website by integrating intuitive search filters, category browsing, and breadcrumb trails to guide users effectively.

5. Cart Management and Checkout Process:

- a. Ensure seamless integration between the cart functionality and product pages, allowing users to add, update, and remove items effortlessly.
- b. Streamline the checkout process by implementing user-friendly forms, address validation, and secure payment gateways to facilitate smooth transactions.

By addressing these challenges and considerations, the development of fully functional cart, search bar, and login page within an e-commerce website can contribute significantly to enhancing user engagement, driving conversions, and fostering customer satisfaction in the digital marketplace.

Methodology:

The development methodology chosen for the front-end development of the e-commerce website encompasses a structured approach aimed at ensuring efficiency, collaboration, and the delivery of high-quality front-end components. The proposed methodology consists of the following key stages:

1. Requirement Analysis:

- a. Conduct thorough discussions with stakeholders to gather requirements, understand business objectives, and define user needs.
- b. Identify key features and functionalities required for the cart, search bar, and login page, considering usability, accessibility, and performance requirements.
- c. Create user stories, wireframes, and mock-ups to visualize the user interface and establish a clear understanding of design expectations.

2. Design Phase:

- a. Translate the requirements and design concepts into actionable design specifications and guidelines.
- b. Design the user interface for the cart, search bar, and login page, focusing on intuitive navigation, visual appeal.
- c. Iterate on design prototypes based on feedback from stakeholders and usability testing to refine the user experience.

3. Development:

- a. Adopt a component-based development approach, breaking down the front-end components into modular and reusable units.
- b. Write clean, well-structured HTML, CSS, and JavaScript code adhering to industry best practices and coding standards.

4. Testing:

- a. Conduct comprehensive testing of the front-end components to ensure functionality, performance, and cross-browser compatibility.
- b. Perform unit tests, integration tests, and end-to-end tests to validate individual components and their interactions.
- c. Seek feedback from stakeholders and end-users through usability testing to identify areas for improvement and refinement.

5. Deployment and Optimization:

- a.** Deploy the front-end components to staging or production environments, ensuring seamless integration with the backend system.
- b.** Monitor performance metrics such as page load times, responsiveness, and user interactions using web analytics tools.
- c.** Optimize front-end assets, including images, scripts, and stylesheets, to minimize load times and improve overall performance.
- d.** Continuously monitor and iterate on the front-end components based on user feedback, changing requirements, and emerging technologies.

Code Snippet:

1. Header

```
2  <html lang="en">
46 |   <body>
47 |     <section id="header">
48 |       <a href="#">index.html>
49 |         <>ShopSizzle</a>
52 |       <div>
53 |         <ul id="navbar">
54 |           <li><a href="#">index.html">Home</a></li>
55 |           <li><a href="#">shop.html">Shop</a></li>
56 |           <li><a href="#">about.html">About</a></li>
57 |           <li><a href="#">contact.html">Contact</a></li>
58 |           <li>
59 |             <a href="#">cart.html"><i class="fa-regular fa-cart-shopping"></i></a>
60 |           </li>
61 |           <li>
62 |             <a href="#">signin.html"><i class="fa-solid fa-user"></i></a>
63 |           </li>
64 |           <li id="searchContainer">
65 |             <form id="searchForm" autocomplete="off">
66 |               <input type="text" id="searchInput" placeholder="Search ... " />
67 |               <button type="submit" id="searchButton">
68 |                 <i class="fa-solid fa-search"></i>
69 |               </button>
70 |               <div id="searchResults" class="hidden"></div>
71 |             </form>
72 |           </li>
73 |         </ul>
74 |       </div>
75 |     </section>
```

2. Footer

```
530  <footer class="footer1">
531    <div class="footerLeft">
532      <div class="footerMenu">
533        <h1 class="fMenuItem">About Us</h1>
534        <ul class="fList">
535          <li class="fListItem" onclick="window.location.href='about.html'">
536            Company
537          </li>
538          <li class="fListItem" onclick="window.location.href='contact.html'">
539            Contact
540          </li>
541          <li class="fListItem" onclick="window.location.href='about.html'">
542            Careers
543          </li>
544          <li class="fListItem" onclick="window.location.href='about.html'">
545            Affiliates
546          </li>
547          <li class="fListItem" onclick="window.location.href='about.html'">
548            Stores
549          </li>
550        </ul>
551      </div>
552    <div class="footerMenu">...
553    </div>
554    <div class="footerMenu">...
555    </div>
556    <div class="footerMenu">...
557    </div>
558    <div class="footerMenu">...
559    </div>
560    <div class="footerMenu">...
561    </div>
562    </div>
```

```

633     <div class="footerRight">
634         <div class="footerRightMenu">
635             <h1 class="fMenuTitle">Follow Us</h1>
636             <div class="ficons">
637                 <i class="fa-brands fa-facebook-f ficon"></i>
638                 <i class="fa-brands fa-instagram ficon"></i>
639                 <i class="fa-brands fa-x-twitter ficon"></i>
640                 <i class="fa-brands fa-youtube ficon"></i>
641                 <i class="fa-brands fa-whatsapp ficon"></i>
642             </div>
643         </div>
644         <div class="footerRightMenu">
645             <h1 class="fMenuTitle">Contact Us</h1>
646             <div class="ficons">
647                 <i class="fa-duotone fa-phone ficon"></i>
648                 <i class="fa-sharp fa-solid fa-envelope ficon"></i>
649                 <i class="fa-sharp fa-solid fa-location-dot ficon"></i>
650             </div>
651         </div>
652         <div class="footerRightMenu">
653             <span class="copyright">
654                 <span>@</span>
655                 <span>2024 Shop Sizzle India Marketing Pvt. Ltd</span>
656             </span>
657         </div>
658     </div>
659 </footer>

```

3. Home Page

```

77     <section id="banner2">
78         <div
79             id="demo"
80             class="carousel slide"
81             data-ride="carousel"
82             data-interval="2500">
83             <ol class="carousel-indicators">
84                 <li data-target="#demo" data-slide-to="0" class="active"></li>
85                 <li data-target="#demo" data-slide-to="1"></li>
86                 <li data-target="#demo" data-slide-to="2"></li>
87             </ol>
88             <div class="carousel-inner">
89                 <div class="carousel-item active">
90                     <a href="shop2.html#suits"></a>
91                 </div>
92                 <div class="carousel-item">
93                     <a href="shop2.html#blazers"></a>
94                 </div>
95                 <div class="carousel-item">
96                     <a href="shop2.html"></a>
97                 </div>
98             </div>
99         </div>
100     </section>
101     <section id="banner" class="section-m1">
102         
105     </section>

```

```

106     <section id="product1" class="section-p1">
107         <h2>Frosty Finds</h2>
108         <p>Unwrap the Coziest Deals of Our Winter Collection Sale</p>
109         <div class="pro-container">
110             <div class="pro" onclick="window.location.href='sproduct1.html';">
111                 
112                 <div class="des">
113                     <span class="com">adidas</span>
114                     <span class="star">
115                         <i class="fa-solid fa-star"></i>
116                         <i class="fa-solid fa-star"></i>
117                         <i class="fa-solid fa-star"></i>
118                         <i class="fa-solid fa-star"></i>
119                         <i class="fa-solid fa-star-half"></i>
120                     </span>
121                     <h5>BSC 3-STRIPE HOODED INSULATED JACKET</h5>
122                     <h4>
123                         <del>₹9 999.00</del><span style="color: red"> ₹5 999.00</span>
124                     </h4>
125                 </div>
126                 <a href="#"><i class="fa-regular fa-cart-shopping cart"></i></a>
127             </div>
128         <div class="pro" onclick="window.location.href='sproduct2.html';">...
129             </div>
130         <div class="pro" onclick="window.location.href='sproduct3.html';">...
131             </div>
132         <div class="pro" onclick="window.location.href='sproduct4.html';">...
133             </div>
134         <div class="pro" onclick="window.location.href='sproduct5.html';">...
135             </div>

```

```

203     <div class="pro" onclick="window.location.href='sproduct6.html';">...
204         </div>
205     <div class="pro" onclick="window.location.href='sproduct7.html';">...
206         </div>
207     <div class="pro" onclick="window.location.href='sproduct8.html';">...
208         </div>
209     </div>
210 </section>
211 <section id="banner3" class="section-m1">
212     
213 </section>
214 <section id="product1" class="section-p1">...
215 </section>
216 <section id="banner4" class="section-p1">
217     <h2>WHAT'S TRENDING</h2>
218     <div class="banner-container">
219         <div class="banner-box">
220             <a href="shop.html#sweatshirts"> </a>
221             <span class="banner-des">
222                 <h5>SWEATSHIRTS</h5>
223             </span>
224         </div>
225         <div class="banner-box">...
226             </div>
227         <div class="banner-box">...
228             </div>
229         <div class="banner-box">...
230             </div>

```

```

515     <section id="newsletter" class="section-p1 section-m1">
516         <div class="newstext">
517             <h4>Sign Up For Newsletters</h4>
518             <p>
519                 Get E-mail updates about our latest shop and
520                 <span>special offers.</span>
521             </p>
522         </div>
523         <div class="form">
524             <input type="email" placeholder="Your email address" />
525             <button class="normal">Sign Up</button>
526         </div>
527     </section>

```

4. Shop Page:

```

47 >     <section id="header"> ...
78     </section>
79     <section id="page-header" class="shop-header">
80         <h2>#stayhome</h2>
81         <p>Save more with coupons & up to 70% off!</p>
82
83         <p id="jackets"></p>
84     </section>
85
86 >     <section id="product1" class="section-p1"> ...
165     </section>
166 >     <section id="product1" class="section-p1"> ...
247     </section>
248 >     <section id="product1" class="section-p1"> ...
320     </section>
321     <section id="pagination" class="section-p1">
322         <a href="shop.html">1</a>
323         <a href="shop2.html">2</a>
324         <a href="shop3.html">3</a>
325     </section>
326
327 >     <section id="newsletter" class="section-p1 section-m1"> ...
339     </section>
340 >     <footer class="footer1"> ...
469     </footer>

```

5. About Page:

```
48 >  <section id="header">...
78   </section>
79 >  <section id="page-header" class="contact-header">...
81   </section>
82   <section id="about-head" class="section-p1">
83     
84
85   <div>
86     <h2>Who We Are?</h2>
87     <p>
88       At Shop Sizzle, we are more than just an online marketplace — we're a
89       community driven by passion and innovation. Founded with the vision to
90       redefine the online shopping experience, we pride ourselves on offering
91       a diverse range of products that cater to every lifestyle and need. Our
92       team is dedicated to curating the finest selection, ensuring that each
93       item meets our stringent standards of quality and reliability. With a
94       commitment to excellence and customer satisfaction at our core, we
95       strive to foster meaningful connections with our valued customers,
96       creating a shopping journey that is as enriching as it is seamless. Join
97       us as we continue to evolve and inspire, shaping the future of online
98       retail one experience at a time.
99     </p>
100    </div>
101  </section>
102  <section id="about-app" class="section-p1">
103    <h1>Download Our App</h1>
104    <div class="video">
105      <video autoplay muted loop src="img/video4.mp4"></video>
106    </div>
107  </section>
```

6. Contact Us Page:

```
<section id="header">...
</section>
<section id="page-header" class="contact-header">...
</section>
<section id="contact-details" class="section-p1">
  <div class="details">
    <span>GET IN TOUCH</span>
    <h2>Visit one of our agency locations or contact us today</h2>
    <h3>Head Office</h3>
    <div>
      <li>
        <i class="fa-sharp fa-solid fa-location-dot ficon"></i>
        <p>
          Chandigarh-Patiala National Highway NH- 64 Village Jansla Rajpura
          Punjab
        </p>
      </li>
      <li>
        <i class="fa-sharp fa-solid fa-envelope ficon"></i>
        <p>shop.sizzle@rediffmail.com</p>
      </li>
      <li>
        <i class="fa-duotone fa-phone ficon"></i>
        <p>+91 98765-43210</p>
      </li>
      <li>
        <i class="fa-sharp fa-solid fa-clock ficon"></i>
        <p>Monday - Friday: 9:00 AM to 5:00 PM</p>
      </li>
    </div>
  </div>
```

```

109 |     <div class="map">
110 |       <iframe
111 |         src="https://www.google.com/maps/embed?pb=!1m18!1m12!1m3!1d3437.1751352098295!2d76.
112 |           65720287564315!1d30.51608647468949!2m3!1f0!2f0!3f0!3m2!1i1024!2i768!4f13.
113 |           1!3m3!1m2!1s0x390fc32344a6e2d7%3A0x81b346dee91799ca!2sChitkara%20University!5e0!3m2!1sen!2sin!4v17085
114 |           84602958!5m2!1sen!2sin"
115 |           width="600"
116 |           height="450"
117 |           style="border: 0"
118 |           allowfullscreen=""
119 |           loading="lazy"
120 |           referrerPolicy="no-referrer-when-downgrade"></iframe>
121 |     </div>
122 |   </section>
123 |
124 |
125 |
126 |
127 |
128 |
129 |
130 |
131 |
132 |
133 |
134 |
135 |
136 |
137 |
138

```

7. Cart Page:

```

50 >   <section id="header"> ...
51 </section>
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
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72
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96
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98
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100
101
102
103
104 >
233

```

8. Login Page:

```
79 <section id="login-details" class="section-p1">
80   <form name="fname1" onsubmit="return all_field1()" style="display: block">
81     <h2>Login</h2>
82     <p>Don't have an account? <a href="login.html">Sign Up</a></p>
83     <label for="email">Email</label>
84     <input type="email" id="email" name="email" placeholder="Email" />
85     <label for="number">Phone Number</label>
86     <input type="text" id="number" name="number" placeholder="Phone Number" />
87     <label for="password">Password</label>
88     <input
89       type="password"
90       id="password"
91       name="password"
92       placeholder="Password" />
93     <button type="submit" value="submit" class="normal">Log In</button>
94   </form>
95   <button
96     id="logoutButton"
97     class="normal"
98     style="
99       display: none;
100      background-color: #874260;
101      color: #fff;
102      margin-left: 200px;
103    "
104     onclick="logout()">
105     Log Out
106   </button>
107   
108 </section>
```

9. Sign Up Page:

```
2  <html lang="en">
81   <section id="login-details" class="section-p1">
82     <form name="fname" id="loginForm" onsubmit="return all_field()">
83       <h2>Create an Account</h2>
84       <p>Already have an account? <a href="signin.html">Login</a></p>
85       <label for="name">Name</label>
86       <input type="text" id="name" placeholder="Name" name="name" />
87       <label for="email">Email</label>
88       <input type="email" id="email" placeholder="Email" name="email" />
89       <label for="number">Phone Number</label>
90       <input type="text" id="number" name="number" placeholder="Phone Number" />
91       <label for="password">Password</label>
92       <input
93         type="password"
94         id="password"
95         name="password"
96         placeholder="Password" />
97       <label for="cpassword">Confirm Password</label>
98       <input
99         type="password"
100        id="cpassword"
101        name="cpassword"
102        placeholder="Confirm Password"
103        onblur="return matchpass()"/>
104       <div id="error"></div>
105       <p>
106         By creating an account you agree to our
107         <a href="#">Terms & Conditions</a>
108       </p>
109       <button class="normal" type="submit" value="submit">
110         Create Account
111       </button>
```

10. Product Page:

```
80 |     <section id="prodetails" class="section-p1">
81 |       <div class="single-pro-image">
82 |         
83 |       </div>
84 |     </div>
85 |     <div class="single-pro-details">
86 |       <h6>Men • Sportswear</h6>
87 |       <span class="star">
88 |         <i class="fa-solid fa-star"></i>
89 |         <i class="fa-solid fa-star"></i>
90 |         <i class="fa-solid fa-star"></i>
91 |         <i class="fa-solid fa-star"></i>
92 |         <i class="fa-solid fa-star-half"></i>
93 |       </span>
94 |       <h2>BSC 3-STRIKES HOODED INSULATED JACKET</h2>
95 |       <h4><del>₹9 999.00</del><span style="color: red"> ₹5 999.00</span></h4>
96 |       <select>
97 |         <option>Select Size</option>
98 |         <option>XS</option>
99 |         <option>S</option>
100 |         <option>M</option>
101 |         <option>L</option>
102 |         <option>XL</option>
103 |         <option>2XL</option>
104 |       </select>
105 |       <input type="number" value="1" id="myNum" min="1" />
106 |
107 |
108 |
109 |
110 |
111 |
112 |
113 |
114 |
115 |
116 |
117 |
118 |
119 |     <button
120 |       class="normal"
121 |       id="addToCartButton"
122 |       onclick="addtocart('BSC 3-STRIKES HOODED INSULATED JACKET',5999.00,'img/jacket.avif')">
123 |       Add To Cart
124 |     </button>
125 |     <h4>Product Details</h4>
126 |     <span
127 |       ><h5>
128 |         <b>
129 |           >WARM, LIGHTWEIGHT JACKET THAT REPELS RAIN, MADE IN PART WITH
130 |             RECYCLED MATERIALS.</b>
131 |         >
132 |       </h5>
133 |       Grab this adidas insulated jacket when it's chilly with the chance of
134 |       an afternoon squall. Hidden cuffs seal out rain and wind. The
135 |       elasticized hood and inner storm flap give you extra protection from
136 |       the elements. High-loft synthetic insulation keeps you warm on city
137 |       streets, meandering trails or wherever you escape to. Made with a
138 |       series of recycled materials, and at least 60% recycled content, this
139 |       product represents just one of our solutions to help end plastic
140 |       waste.</span>
141 |     >
142 |   </div>
143 | </section>
```

11. JavaScript Files:

```
1  var MainImg = document.getElementById("MainImg");
2  var smallimg = document.getElementsByClassName("small-img");
3  smallimg[0].onclick = function () {
4      var temp = MainImg.src;
5      MainImg.src = smallimg[0].src;
6      smallimg[0].src = temp;
7  };
8  smallimg[1].onclick = function () {
9      var temp = MainImg.src;
10     MainImg.src = smallimg[1].src;
11     smallimg[1].src = temp;
12 };
13 smallimg[2].onclick = function () {
14     var temp = MainImg.src;
15     MainImg.src = smallimg[2].src;
16     smallimg[2].src = temp;
17 };
18 smallimg[3].onclick = function () {
19     var temp = MainImg.src;
20     MainImg.src = smallimg[3].src;
21     smallimg[3].src = temp;
22 };
```

```
1  document.addEventListener("DOMContentLoaded", function () {
2      var searchForm = document.getElementById("searchForm");
3      var searchInput = document.getElementById("searchInput");
4      var searchResults = document.getElementById("searchResults");
5
6      var products = [...];
200
201
202      searchForm.addEventListener("submit", function (event) {
203          event.preventDefault();
204          var searchTerm = searchInput.value.trim().toLowerCase();
205          if (searchTerm !== "") {
206              var filteredProducts = products.filter(function (product) {
207                  return (
208                      product.category.toLowerCase() === searchTerm ||
209                      product.name.toLowerCase().includes(searchTerm)
210                  );
211              });
212
213              displaySearchResults(filteredProducts);
214          } else {
215              hideSearchResults();
216          }
217      });

```

```
219     function displaySearchResults(products) {
220       if (products.length === 0) {
221         var noResultsMessage = document.createElement("div");
222         noResultsMessage.textContent = "Sorry! No results found ... ";
223         searchResults.appendChild(noResultsMessage);
224         searchResults.classList.remove("hidden");
225         return;
226       }
227     products.forEach(function (product) {
228       var item = document.createElement("div");
229       item.classList.add("searchItem");
230
231       var image = document.createElement("img");
232       image.src = product.image;
233       image.alt = product.name;
234       image.width = 70;
235
236       var name = document.createElement("span");
237       name.textContent = product.name;
238
239       item.appendChild(image);
240       item.appendChild(name);
241
242       item.addEventListener("click", function () {
243         window.location.href = product.link;
244       });
245
246       searchResults.appendChild(item);
247     });
248
249
250   searchResults.classList.remove("hidden");
```

```
253   function hideSearchResults() {
254     searchResults.innerHTML = "";
255     searchResults.classList.add("hidden");
256   }
257
258   document.addEventListener("click", function (event) {
259     if (!searchForm.contains(event.target)) {
260       hideSearchResults();
261     }
262   });
263
264   searchForm.addEventListener("click", function (event) {
265     event.stopPropagation();
266   });
267 }
```

```

3   function addtocart(productName, price, imageUrl) {
4     if (!isLoggedIn()) {
5       alert("Please login to add items to your cart.");
6       window.location.href = "signin.html";
7       return;
8     }
9
10    let quantity = parseInt(document.getElementById("myNum").value);
11
12    let itemIndex = cartItems.findIndex(
13      (item) => item.productName === productName
14    );
15
16    if (itemIndex === -1) {
17      cartItems[itemIndex].quantity += quantity;
18    } else {
19      cartItems.push({
20        productName: productName,
21        price: price,
22        quantity: quantity,
23        imageUrl: imageUrl,
24      });
25    }
26
27    saveCartToLocalStorage();
28    alert("Item added to cart");
29    document.getElementById("addToCartButton").textContent = "Added";
30
31    displayCart();
32    updateCartSummary();
33  }

```

```

35  function displayCart() {
36    let gridContainer = document.querySelector("#cart-grid");
37
38    gridContainer.innerHTML = "";
39
40    cartItems.forEach((item) => {
41      let gridItem = document.createElement("div");
42      gridItem.classList.add("cart-item");
43
44      gridItem.innerHTML = `
45        <div class="cart-remove"><i class="fa-sharp fa-solid fa-xmark" style="padding:15px"
46          onclick="removeItem('${
47            item.productName
48          }')"></i></div>
49        <div class="cart-product-image"></div>
52        <div class="cart-product">${item.productName}</div>
53        <div class="cart-price">${item.price}</div>
54        <div class="cart-quantity">${item.quantity}</div>
55        <div class="cart-subtotal">${item.price * item.quantity}</div>
56      `;
57
58      gridContainer.appendChild(gridItem);
59    });
60

```

```

61  function removeItem(productId) {
62    let itemIndex = cartItems.findIndex(
63      (item) => item.productId === productId
64    );
65
66    if (itemIndex !== -1) {
67      cartItems.splice(itemIndex, 1);
68    }
69
70    saveCartToLocalStorage();
71
72    displayCart();
73    updateCartSummary();
74  }
75
76  function saveCartToLocalStorage() {
77    localStorage.setItem("cartItems", JSON.stringify(cartItems));
78  }
79
80  function loadCartFromLocalStorage() {
81    let storedCartItems = localStorage.getItem("cartItems");
82    if (storedCartItems) {
83      cartItems = JSON.parse(storedCartItems);
84    }
85  }
86
87  document.addEventListener("DOMContentLoaded", function () {
88    loadCartFromLocalStorage();
89
90    displayCart();
91    updateCartSummary();
92  });
93
94  function updateCartSummary() {
95    let totalItems = 0;
96    let totalPrice = 0;
97    const GST_RATE = 0.18;
98    const cartSummaryContainer = document.getElementById("cart-summary");
99    const cartSummaryHeading = document.getElementById("cart-summary-heading");
100
101   cartSummaryContainer.innerHTML = "";
102
103   cartSummaryHeading.textContent = "Cart Summary";
104
105   cartItems.forEach((item) => {
106     totalItems += item.quantity;
107     totalPrice += item.price * item.quantity;
108   });
109
110   const GST = totalPrice * GST_RATE;
111   const totalPriceBeforeGST = totalPrice;
112   totalPrice += GST;
113
114   const totalItemsElement = document.createElement("div");
115   totalItemsElement.textContent = `Total Items: ${totalItems}`;
116
117   const totalPriceElement = document.createElement("div");
118   totalPriceElement.textContent = `Total Price (incl. GST): ${formatCurrency(
119     totalPrice
120   )}`;
121

```

```

122  const gstElement = document.createElement("div");
123  gstElement.textContent = 'GST (18%): ${formatCurrency(GST)}';
124
125  const totalPriceBeforeGSTElement = document.createElement("div");
126  totalPriceBeforeGSTElement.textContent = 'Price Before GST: ${formatCurrency(
127    totalPriceBeforeGST
128  )}' ;
129
130  cartSummaryContainer.appendChild(totalItemsElement);
131  cartSummaryContainer.appendChild(totalPriceBeforeGSTElement);
132  cartSummaryContainer.appendChild(gstElement);
133  cartSummaryContainer.appendChild(totalPriceElement);
134 }
135 function formatCurrency(amount) {
136   const formattedAmount = amount.toLocaleString("en-IN", {
137     style: "currency",
138     currency: "INR",
139   });
140
141   return formattedAmount;
142 }
143
144 function checkout() {
145   cartItems = [];
146
147   saveCartToLocalStorage();
148
149   displayCart();
150
151   updateCartSummary();
152
153   alert("Checkout Successfully ... ");
154   window.location.href = "index.html";
155 }
156 function isLoggedIn() {
157   return localStorage.getItem("loggedIn") === "true";
158 }

```

Results:

The screenshot shows the homepage of the ShopSizzle website. At the top, there is a navigation bar with links for Home, Shop, About, Contact, a shopping cart icon, a user profile icon, and a search bar. The main banner features a man in a tuxedo standing in front of a wooden paneled wall. The text "YOUR BOLLYWOOD MOMENT AWAITS!" is displayed prominently, followed by "Shop the new Wedding Collection." and a "Shop Now" button.

Frosty Finds
Unwrap the Coziest Deals of Our Winter Collection Sale

adidas BSC 3-STRIKES HOODED INSULATED JACKET
₹9 999.00 ₹5 999.00 [Shop](#)

adidas ADIDAS X MARIMEKKO MARATHON JACKET
₹9 999.00 ₹4 999.00 [Shop](#)

adidas GRAPHICS CAMO COACH JACKET
₹10 999.00 ₹4 950.00 [Shop](#)

adidas ADIDAS ADVENTURE WINTER ALLOVER PRINT GORE-TEX JACKET
₹29 999.00 ₹17 999.50 [Shop](#)

Three male models are shown in separate frames, each wearing a different winter jacket. The first model on the left is wearing a dark blue zip-up hoodie with green stripes on the sleeves. The second model in the middle is wearing a brown jacket over a grey shirt and white pants. The third model on the right is wearing a maroon crew-neck sweater and holding a book.

Our Services



PERSONALIZATION

Emboss select bags, luggage, belts, leather accessories, and items from the pet's collection with initials to create a truly unique piece.



PACKAGING

Choose our online exclusive tote or add a gift message at checkout to enjoy the boutique shopping bag.



COLLECT IN STORE

Order online and collect your order from your preferred ShopSizzle boutique.

Sign Up For Newsletters

Get E-mail updates about our latest shop and **special offers**.

About Us

[Company](#)
[Contact](#)
[Careers](#)
[Affiliates](#)
[Stores](#)

My Account

[Sign In](#)
[View Cart](#)
[My Wishlist](#)
[Track My Order](#)
[Help](#)

Useful Links

[Support](#)
[Refund](#)
[FAQ](#)
[Feedback](#)
[Stories](#)

Products

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[Sweaters](#)
[Suits](#)
[Blazers](#)
[Shorts](#)
[Tshirts](#)

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 ShopSizzle
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#stayhome
Save more with coupons & up to 70% off!

Jackets

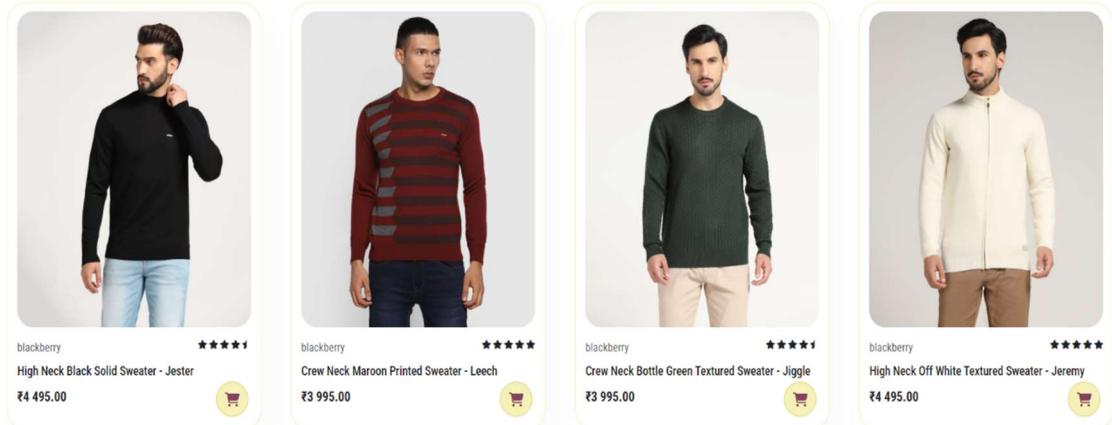








Sweaters



1 2 3

This is a detailed view of the product page for the "High Neck Black Solid Sweater - Jester". The page features a large central image of a man wearing the black turtle-neck sweater. To the left of the image is a breadcrumb navigation "Men • Sweaters". To the right is a star rating of five stars. The product title "High Neck Black Solid Sweater - Jester" is displayed prominently. Below it is the price "₹4 495.00". A "Select Size" dropdown menu is shown, with "1" selected. A "Add To Cart" button is located next to the size selector. The "Product Details" section contains a descriptive paragraph about the sweater's features and benefits.

Men • Sweaters

High Neck Black Solid Sweater - Jester

₹4 495.00

Select Size

1 Add To Cart

Product Details

Experience the essence of timeless style and comfort with the Black Turtle Neck Sweater. This classic sweater showcases a turtle neckline, offering both style and warmth to elevate your outfit. With full sleeves and a knitted weave, it envelops you in soothing cosiness while exuding sophistication. The stunning black colour gives a versatile look, making it a staple piece in your wardrobe for various occasions. Stunning turtle neckline offers a chic and cosy look. Wear this turtle neck sweater with Blackberrys tailored trousers and ankle boots for a polished and elegant ensemble for any formal or semi-formal event.

The banner features the ShopSizzle logo at the top left. The main heading "#Discover Our Story" is centered over a dark background with a city skyline silhouette. At the bottom, there is a stylized illustration of a warehouse or storage area with workers and forklifts.

ShopSizzle

Home Shop About Contact

#Discover Our Story



Who We Are?

At Shop Sizzle, we are more than just an online marketplace – we're a community driven by passion and innovation. Founded with the vision to redefine the online shopping experience, we pride ourselves on offering a diverse range of products that cater to every lifestyle and need. Our team is dedicated to curating the finest selection, ensuring that each item meets our stringent standards of quality and reliability. With a commitment to excellence and customer satisfaction at our core, we strive to foster meaningful connections with our valued customers, creating a shopping journey that is as enriching as it is seamless. Join us as we continue to evolve and inspire, shaping the future of online retail one experience at a time.

ShopSizzle

GET IN TOUCH

Visit one of our agency locations or contact us today

Head Office

- 📍 Chandigarh-Patiala National Highway NH- 64 Village Jansla Rajpura Punjab
- ✉️ shop.sizzle@rediffmail.com
- 📞 +91 98765-43210
- 🕒 Monday - Friday: 9:00 AM to 5:00 PM

LEAVE A MESSAGE

We love to hear from you

Your Name

E-mail

ShopSizzle

Home Shop About Contact Cart Search...

Remove	Image	Product	Price	Quantity	Subtotal
×		ADIDAS X MARIMEKKO MARATHON JACKET	4999	1	4999
×		ADIDAS MOSCOW GRAPHIC TEE	3499.5	1	3499.5

Cart Summary

Total Items: 2

Price Before GST: ₹8,498.50

GST (18%): ₹1,529.73

Total Price (Incl. GST): ₹10,028.23

[Checkout](#)

ShopSizzle

Home Shop About Contact Cart Search...

Create an Account

Already have an account? [Login](#)

Name

Name

Email

Email

Phone Number

Phone Number

Password

Password

Confirm Password

Confirm Password

By creating an account you agree to our [Terms & Conditions](#)

[Create Account](#)



Login

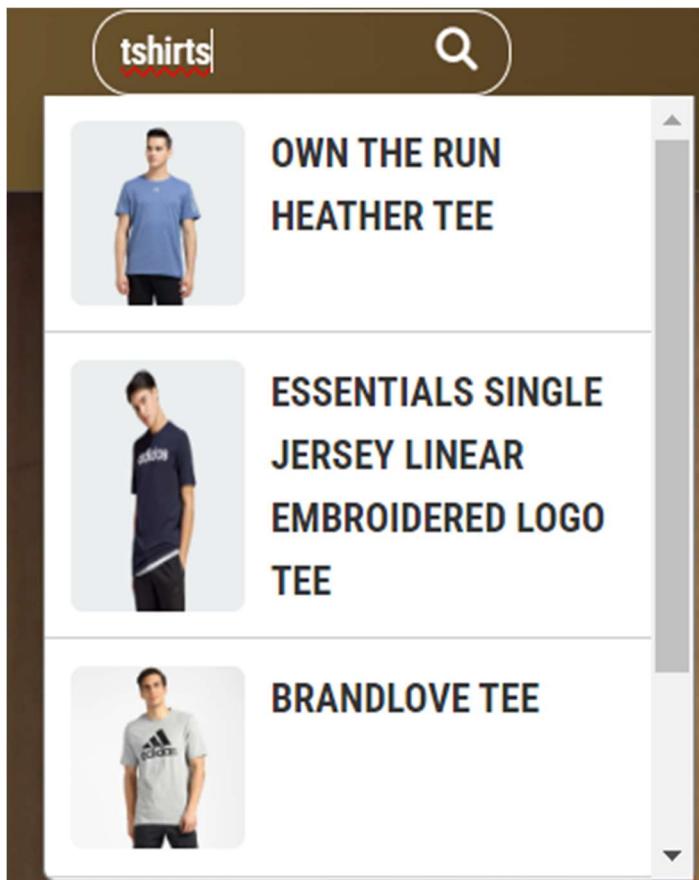
Don't have an account? [Sign Up](#)

Email

Phone Number

Password

[Log In](#)



tshirts 

 OWN THE RUN
HEATHER TEE

 ESSENTIALS SINGLE
JERSEY LINEAR
EMBROIDERED LOGO
TEE

 BRANDLOVE TEE

References:

- The products displayed are from **Adidas** and **Blackberry**.
- The banners used are used from **Peter England, Blackberry**.
- The access code is generated from **web3forms.com** for contact page.