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BANGALORE



School of Computer Science & Engineering

A Mini Project Report on:

Responsive E-Commerce Website

Presented by: Group 5

Kuruba Arun Kumar	20221LCG0005
Avnash N	20221LCG0004

Submitted to:

Dr. Jai Kumar B

Assistant Professor,

School of Computer Science & Engineering

Abstract

This project presents a frontend prototype of an e-commerce grocery website inspired by Blinkit, developed using HTML, CSS, and JavaScript. The objective was to simulate a real-time grocery shopping experience by designing a user-friendly interface that supports item browsing, category filtering, product search, and cart management. The application replicates core features of modern e-commerce platforms including a product grid, navigation sidebar, Search, add to cart, login, dynamic cart functionality, and responsive design. This project emphasizes practical implementation of frontend web development principles, UI/UX considerations, and local functionality without backend/database integration.

1. Introduction

The purpose of this mini-project is to design and develop a static yet functional e-commerce platform frontend for grocery shopping. The project is aimed at reinforcing knowledge of web technologies and improving UI/UX design skills.

2. Technologies Used

- **HTML5** – For structuring the web content.
- **CSS3** – For styling the interface and responsive design.
- **JavaScript (Vanilla JS)** – For implementing interactive features like "Add to Cart".
- **Bootstrap** – For layout and responsiveness.
- **Angular js**- For Responsive and single page website.

3. Features Implemented

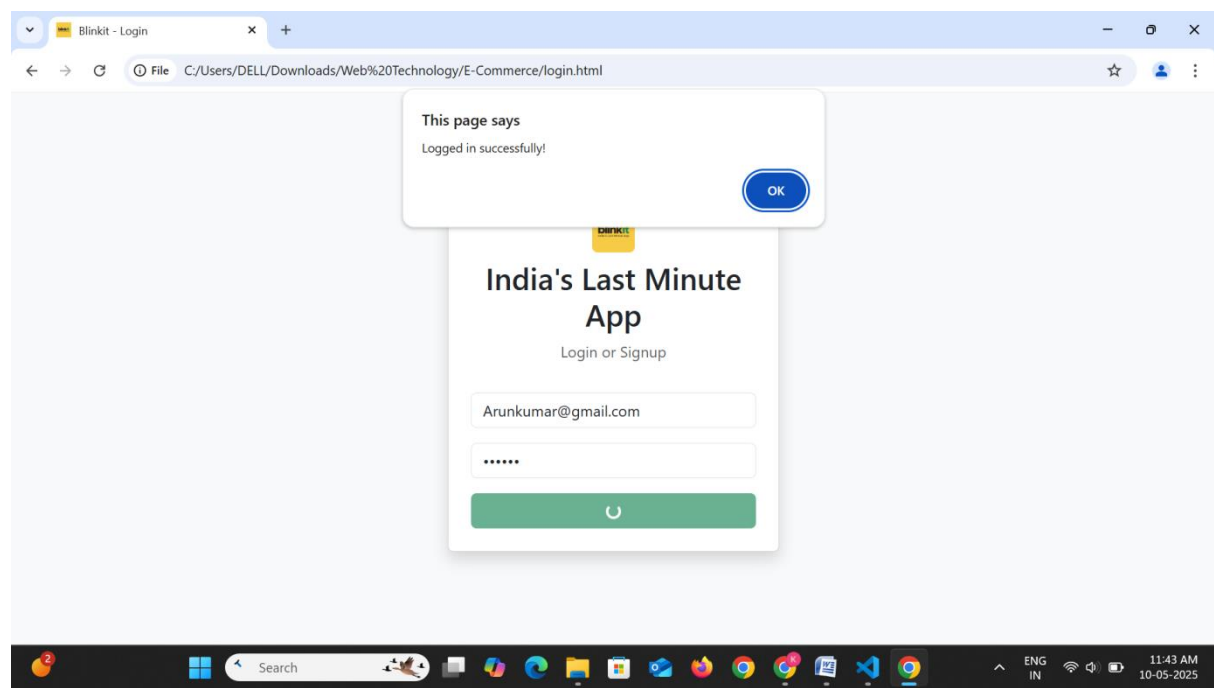
- **Product Display Grid**: Lists products with images, names, quantities, prices, and "Add" buttons.
- **Search Bar**: Allows users to filter products based on keywords.
- **Sidebar Navigation**: Categorized items such as Milk, Bread, Eggs, etc.
- **Cart Icon**: Shows the number of items added to the cart.
- **Responsive Design**: Compatible across different device screen sizes.
- **Add to card**: Adding items to cart.
- **Login**: For Accessing authorized persons
- **Total cost**: For calculating cart items

4. Pages/Components

- **Home Page:** Displays product listings and categories.
- **Cart Preview :** dynamically show the current cart count.
- **Login page:** For adding login credentials

5.Source Code:

Login.HTML



```
<!DOCTYPE html>
<html lang="en" ng-app="loginApp">
<head>
  <link rel="icon" href="blink.jpeg">
  <meta charset="UTF-8">
  <title>Blinkit - Login</title>
  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">

  <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></script>
</head>
<body class="bg-light d-flex align-items-center justify-content-center vh-100" ng-controller="LoginController">

  <div class="card shadow p-4" style="width: 22rem;">
```

```

<div class="text-center mb-3">
  
  <h2 class="mt-2">India's Last Minute App</h2>
  <p class="text-muted" >Login or Signup</p>
</div>

<form name="loginForm" ng-submit="login()" novalidate>
  <div class="mb-3">
    <input type="email" class="form-control" placeholder="Email" ng-model="user.email" name="email"
required>

    <div class="text-danger" ng-show="loginForm.email.$touched && loginForm.email.$invalid">
      Please enter a valid email.
    </div>
  </div>
  <div class="mb-3">
    <input type="password" class="form-control" placeholder="Password" ng-model="user.password"
name="password" required>

    <div class="text-danger" ng-show="loginForm.password.$touched && loginForm.password.$invalid">
      Password is required.
    </div>
  </div>
  <button type="submit" class="btn btn-success w-100" ng-disabled="loading">
    <span ng-show="loading" class="spinner-border spinner-border-sm" aria-hidden="true"></span>
    <span ng-hide="loading">Login</span>
  </button>
</form>
</div>

<script>
  angular.module('loginApp', [])
    .controller('LoginController', ['$scope', function($scope) {
      $scope.user = {
        email: '',
        password: ''
      };
      $scope.loading = false;

      $scope.login = function() {

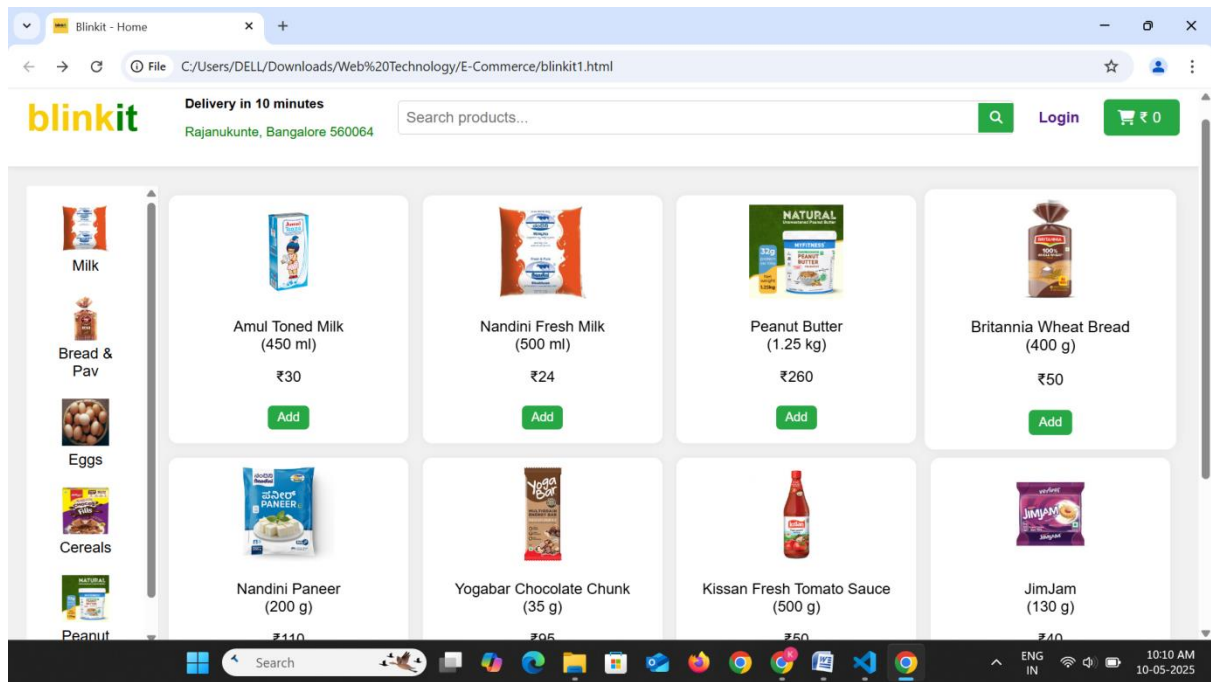
        if ($scope.loginForm.$valid) {
          $scope.loading = true;

          setTimeout(function() {
            sessionStorage.setItem("isLoggedIn", true);
            alert("Logged in successfully!");
            window.location.href = "cart.html";
          }, 2000);
        } else {
          alert("Please fill in both email and password.");
        }
      };
    }]);
</script>

</body>
</html>

```

Blinkit1.html:



```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
  <link rel="icon" href="blink.jpeg">
  <title>Blinkit - Home</title>

  <link rel="stylesheet" href="style.css"/>
  <link
    rel="stylesheet"
    href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.7.2/css/all.min.css"
    integrity="sha512-Evv84Mr4kqVGRNSgIGL/F/aIDqQb7xQ2vcrdIwxfjThSH8CSR7PBEakCr51Ck+w+/U6swU2Im1vVX0SVk9ABhg=="
    crossorigin="anonymous"
    referrerpolicy="no-referrer"/>
</head>
<body>
  <header>
    <div class="logo-container">
      <h1><span style="color:rgb(248, 204, 9);">blink</span><span style="color:green;">it</span></h1>
      <div class="delivery-info">
        <p><b>Delivery in 10 minutes</b></p>
        <p style="color: green;">Rajanukunte, Bangalore 560064</p>
      </div>
    </div>

    <div class="search-container">
      <input type="text" class="search-input" placeholder="Search products..." />
      <button class="search-button"><i class="fas fa-search"></i></button>
    </div>

    <div>
      <b> <a href="login.html" style="text-decoration:none;" >Login</a></b>
    </div>

    <a href="cart.html" style="text-decoration: none;">
      <div class="cart-section">
        <i class="fas fa-shopping-cart"></i>
        ₹<span class="cart-total">0</span>
      </div>
    </a>
  </header>

  <div class="content-container">
```

```

<div class="sidebar">
  <div class="sidebar-item" data-category="Milk">Milk</div>
  <div class="sidebar-item" data-category="Bread & Pav">Bread & Pav</div>
  <div class="sidebar-item" data-category="Eggs">Eggs</div>
  <div class="sidebar-item" data-category="Cereals">Cereals</div>
  <div class="sidebar-item" data-category="Peanut Butter">Peanut Butter</div>
</div>

<div class="product-grid">
  <div class="product-card" data-price="30">
    
    <p class="product-name">Amul Toned Milk<br> (450 ml)</p>
    <p>₹30</p>
    <button class="add-btn">Add</button>
  </div>
  <div class="product-card" data-price="24">
    
    <p class="product-name">Nandini Fresh Milk <br>(500 ml)</p>
    <p>₹24</p>
    <button class="add-btn">Add</button>
  </div>
  <div class="product-card" data-price="260">
    
    <p class="product-name">Peanut Butter <br>(1.25 kg)</p>
    <p>₹260</p>
    <button class="add-btn">Add</button>
  </div>
  <div class="product-card" data-price="50">
    
    <p class="product-name">Britannia Wheat Bread <br>(400 g)</p>
    <p>₹50</p>
    <button class="add-btn">Add</button>
  </div>
  <div class="product-card" data-price="110">
    
    <p class="product-name">Nandini Paneer<br> (200 g) </p>
    <p>₹110</p>
    <button class="add-btn">Add</button>
  </div>
  <div class="product-card" data-price="95">
    
    <p class="product-name">Yogabar Chocolate Chunk <br>(35 g)</p>
    <p>₹95</p>
    <button class="add-btn">Add</button>
  </div>
  <div class="product-card" data-price="50">
    
    <p class="product-name">Kissan Fresh Tomato Sauce <br>(500 g)</p>
    <p>₹50</p>
    <button class="add-btn">Add</button>
  </div>
  <div class="product-card" data-price="40">
    
    <p class="product-name">JimJam <br>(130 g)</p>
    <p>₹40</p>
    <button class="add-btn">Add</button>
  </div>
</div>
</div>

<footer style="background-color: #ffffff; border-top: 1px solid #ddd; padding: 20px 40px; text-align: center; margin-top: 20px;">
  <div style="margin-bottom: 10px;">
    <a href="https://www.facebook.com/blinkit.india/" target="_blank" style="margin: 0 10px; color: #3b5998; font-size: 20px;"><i class="fab fa-facebook-f"></i></a>
    <a href="https://x.com/letsblinkit?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor" target="_blank" style="margin: 0 10px; color:black; font-size: 20px;"><i class="fa-brands fa-x-twitter"></i></a>
    <a href="https://www.instagram.com/letsblinkit/?hl=en" target="_blank" style="margin: 0 10px; color: #e4405f; font-size: 20px;"><i class="fab fa-instagram"></i></a>
  </div>
  <p style="font-size: 14px; color: #666;"> Blinkit. All rights reserved.</p>

```

```

    <p style="font-size: 13px; color: #888;">Blinkit delivers groceries, essentials & more in minutes. Fast, reliable
    & convenient.</p>
  </footer>

  <script>
    function updateCartIcon() {
      const cart = JSON.parse(localStorage.getItem("cart")) || {};
      let total = 0;

      for (let item in cart) {
        total += cart[item].price * cart[item].quantity;
      }

      document.querySelector(".cart-total").textContent = total;
    }

    updateCartIcon();

    document.querySelectorAll(".product-card").forEach(card => {
      let quantity = 0;
      const price = parseInt(card.getAttribute("data-price"));
      const name = card.querySelector(".product-name").textContent;
      const addBtn = card.querySelector(".add-btn");

      addBtn.addEventListener("click", () => {
        let cart = JSON.parse(localStorage.getItem("cart")) || {};
        if (cart[name]) {
          cart[name].quantity += 1;
        } else {
          cart[name] = { price: price, quantity: 1 };
        }
        localStorage.setItem("cart", JSON.stringify(cart));
        addBtn.textContent = `Added (${cart[name].quantity})`;
        updateCartIcon();
      });
    });

    document.querySelector(".search-input").addEventListener("input", function () {
      let searchValue = this.value.toLowerCase();
      document.querySelectorAll(".product-card").forEach(card => {
        let name = card.querySelector(".product-name").textContent.toLowerCase();
        card.style.display = name.includes(searchValue) ? "block" : "none";
      });
    });

    const productGrid = document.querySelector(".product-grid");

    document.querySelectorAll(".sidebar-item").forEach(item => {
      item.addEventListener("click", function() {
        const category = this.dataset.category;

        const data = {
          "Milk": [
            { "name": "Amul Toned Milk (450 ml)", "price": 30, "image": "amul.png" },
            { "name": "Nandini Fresh Milk (500 ml)", "price": 24, "image": "nandini.jpeg" }
          ],
          "Bread & Pav": [
            { "name": "Britannia Wheat Bread (400 g)", "price": 50, "image": "wheat.webp" }
          ],
          "Eggs": [
            { "name": "Farm Fresh Eggs (6 pcs)", "price": 60, "image": "eggs.webp" }
          ],
          "Cereals": [{ "name": "Chocos ", "price": 120, "image": "chocos.jpg"
            },
            { "name": "Peanut Butter ", "price": 260, "image": "butter.webp"
            }
          ]
        };

        const products = data[category] || [];

```

```

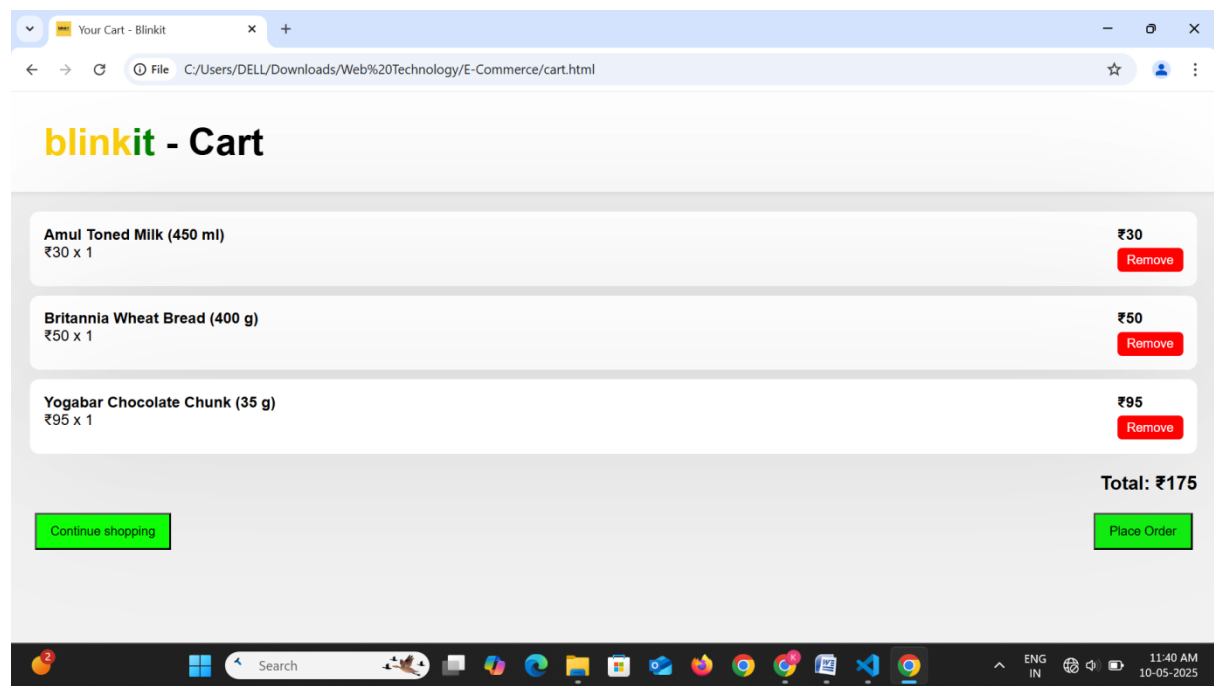
productGrid.innerHTML = "";

products.forEach(product => {
  const card = document.createElement("div");
  card.className = "product-card";
  card.setAttribute("data-price", product.price);
  card.innerHTML = `
    
    <p class="product-name">${product.name}</p>
    <p>₹${product.price}</p>
    <button class="add-btn">Add</button>
  `;
  productGrid.appendChild(card);

  card.querySelector(".add-btn").addEventListener("click", () => {
    let cart = JSON.parse(localStorage.getItem("cart")) || {};
    if (cart[product.name]) {
      cart[product.name].quantity += 1;
    } else {
      cart[product.name] = { price: product.price, quantity: 1 };
    }
    localStorage.setItem("cart", JSON.stringify(cart));
    card.querySelector(".add-btn").textContent = `Added (${cart[product.name].quantity})`;
    updateCartIcon();
  });
});
});
});
</script>
</body>
</html>

```

Cart.html:




```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Your Cart - Blinkit</title>
  <link rel="icon" href="blink.jpeg">
  <link rel="stylesheet" href="style.css">
  <style>
    .cart-container {
      padding: 20px;
    }
    .cart-item {
      background: white;
      margin-bottom: 10px;
      padding: 15px;
      border-radius: 10px;
      box-shadow: 0 2px 500px rgba(0,0,0,0.1);
      display: flex;
      justify-content: space-between;
    }
    .total {
      font-weight: bold;
      font-size: 20px;
      margin-top: 20px;
      text-align: right;
    }
    .button{
      padding:10px 15px;
      margin:0px 25px;
      cursor:pointer;
      text-decoration:none;
      margin-bottom:90px;
      background-color: rgb(13, 254, 5);
    }
    .place-order{
      float:right;
      padding:10px 15px;
      margin:0px 25px;
      background-color:rgb(17, 235, 17);
      color:black;
      cursor:pointer;
    }
  </style>
</head>
<body>
  <header>
    <h1 style="padding: 15px;"><span style="color:rgb(248, 204, 9);">blink</span><span
style="color:green;">it</span> - Cart</h1>
  </header>

  <div class="cart-container" id="cart-container">

</div>
<a href="blinkit1.html"> <button class="button" >Continue shopping</button></a>
<button class="place-order" onclick="call()">Place Order</button>

<script>
  function renderCart() {
    const cart = JSON.parse(localStorage.getItem('cart')) || {};
    const container = document.getElementById('cart-container');
    container.innerHTML = "";
    let total = 0;

    if (Object.keys(cart).length === 0) {
      container.innerHTML = "<p>Your cart is empty.</p>";
    } else {
      for (let name in cart) {
        const item = cart[name];
        const itemTotal = item.price * item.quantity;

```

```

        total += itemTotal;

        const div = document.createElement('div');
        div.className = 'cart-item';
        div.innerHTML = `
            <div>
                <strong>${name}</strong><br>
                ₹${item.price} x ${item.quantity}
            </div>
            <div>
                <strong>₹${itemTotal}</strong><br>
                <button onclick="removeFromCart('${name}')" style="margin-top: 5px; background-color:
red; color: white; border: none; padding: 5px 10px; border-radius: 5px; cursor: pointer;">Remove</button>
            </div>
        `;
        container.appendChild(div);
    }

    const totalDiv = document.createElement('div');
    totalDiv.className = 'total';
    totalDiv.innerHTML = `Total: ₹${total}`;
    container.appendChild(totalDiv);
}

function removeFromCart(name) {
    let cart = JSON.parse(localStorage.getItem("cart")) || {};
    if (cart[name]) {
        cart[name].quantity -= 1;
        if (cart[name].quantity <= 0) {
            delete cart[name];
        }
        localStorage.setItem("cart", JSON.stringify(cart));
        renderCart();
    }
}

function call() {
    const isLoggedIn = sessionStorage.getItem("isLoggedIn");
    const cart = JSON.parse(localStorage.getItem("cart")) || {};

    let total = 0;
    for (let item in cart) {
        total += cart[item].price * cart[item].quantity;
    }

    if (!isLoggedIn) {
        alert("Please log in before placing your order.");

        window.location.href = "login.html";
        return ;
    }

    if (total > 0) {
        alert(`Please Pay ₹ ${total} to place the order`);
    } else {
        alert("Please add items to the cart");
    }
}

renderCart();
</script>
</body>
</html>

```

Green.html:

```
<script>
const cart = JSON.parse(localStorage.getItem('cart')) || {};
const container = document.getElementById('cart-container');
let total = 0;

if (Object.keys(cart).length === 0) {
  container.innerHTML = "<p>Your cart is empty.</p>";
} else {
  for (let name in cart) {
    const item = cart[name];
    const itemTotal = item.price * item.quantity;
    total += itemTotal;

    const div = document.createElement('div');
    div.className = 'cart-item';
    div.innerHTML = `
      <div>${name} <br> ₹${item.price} x ${item.quantity}</div>
      <div><strong>₹${itemTotal}</strong></div>
    `;
    container.appendChild(div);
  }

  const totalDiv = document.createElement('div');
  totalDiv.className = 'total';
  totalDiv.innerHTML = `Total: ₹${total}`;
  container.appendChild(totalDiv);
}

function call(){
  if(total>0){
    alert(`Please Pay ₹ ${total} to place the order`);
  }
  else{
    alert("Please add items to the cart");
  }
}
</script>
```

It.html:

```
<html>
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Blinkit - Home</title>
  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.3/css/all.min.css">
  <style>
    body {
      font-family: Arial, sans-serif;
      margin: 0;
      padding: 0;
      background-color: #f1f1f1;
    }
    header {
      display: flex;
      align-items: center;
      justify-content: space-between;
      background-color: white;
      padding: 15px 20px;
    }
  </style>
</head>
```

```
.logo-container {
  display: flex;
  align-items: center;
}
h1 {
  font-size: 40px;
}
.delivery-info {
  margin-left: 50px;
  font-size: 14px;
  color: black;
}
.search-container {
  display: flex;
  align-items: center;
  border: 1px solid #ccc;
  border-radius: 5px;
  overflow: hidden;
}
.search-input {
  width: 600px;
  padding: 8px;
  border: none;
  font-size: 16px;
  outline: none;
}
.search-button {
  background: green;
  border: none;
  color: white;
  padding: 8px 12px;
  cursor: pointer;
}
.cart-section {
  display: flex;
  align-items: center;
  font-size: 18px;
  background: green;
  color: white;
  padding: 10px;
  border-radius: 5px;
}
.cart-section i {
  margin-right: 5px;
}
.content-container {
  display: flex;
  margin: 20px;
}
.sidebar {
  width: 120px;
  background: white;
  padding: 10px;
  border-right: 2px solid #ddd;
  overflow-y: auto;
  height: 80vh;
}
.sidebar-item {
  text-align: center;
  padding: 10px;
  cursor: pointer;
}
.sidebar-item img {
  width: 50px;
  height: 50px;
  display: block;
  margin: 0 auto 5px;
}
.sidebar-item:hover {
  background: #eee;
}
.product-grid {
  display: grid;
}
```



```

        <p>Amul Toned Milk</p>
        <p>₹30</p>
        <button class="add-btn">Add</button>
    </div>
    <div class="product-card" title="Nandini">
        
        <p>Nandini Fresh Milk</p>
        <p>₹24</p>
        <button class="add-btn">Add</button>
    </div>
    <div class="product-card" title="Chocos">
        
        <p>Kellogg's Double Chocolate Fills Chocos</p>
        <p>₹40</p>
        <button class="add-btn">Add</button>
    </div>
    <div class="product-card" title="Peanut Butter">
        
        <p>Peanut Butter</p>
        <p>₹210</p>
        <button class="add-btn">Add</button>
    </div>
    <div class="product-card" title="Bread">
        
        <p>Britannia Wheat Bread</p>
        <p>₹50</p>
        <button class="add-btn">Add</button>
    </div>
    <div class="product-card" title="Panner">
        
        <p>Nandini Paneer</p>
        <p>₹90</p>
        <button class="add-btn">Add</button>
    </div>
    <div class="product-card" title="YogaBar">
        
        <p>Yogabar Chocolate Chunk</p>
        <p>₹95</p>
        <button class="add-btn">Add</button>
    </div>
</div>
<div>
    <footer style="background-color: #ffffff; border-top: 1px solid #ddd; padding: 20px 40px; text-align: center; margin-top: 20px;">
        <div>
            <a href="#" style="margin: 0 10px; color: #3b5998; font-size: 20px;"><i class="fab fa-facebook-f"></i></a>
            <a href="#" style="margin: 0 10px; color: #1da1f2; font-size: 20px;"><i class="fab fa-twitter"></i></a>
            <a href="https://www.instagram.com/prajwal.palakshappa/?utm_source=ig_web_button_share_sheet" style="margin: 0 10px; color: #e4405f; font-size: 20px;"><i class="fab fa-instagram"></i></a>
        </div>
        <p style="font-size: 14px; color: #666;"> Blinkit 2025. All rights reserved.</p>
        <p style="font-size: 13px; color: #888;">Blinkit delivers groceries, essentials & more in minutes. Fast, reliable & convenient.</p>
    </footer>
</div>
<script>
    document.querySelector('.search-input').addEventListener('input', function() {
        let searchValue = this.value.toLowerCase();
        let products = document.querySelectorAll('.product-card');

        products.forEach(product => {
            let productName = product.querySelector('p').textContent.toLowerCase();
            if (productName.includes(searchValue)) {
                product.style.display = "block";
            } else {
                product.style.display = "None";
            }
        });
    });

    let cartCount = 0;
    const cartCountElement = document.querySelector('.cart-count');

```

```

        document.querySelectorAll('.add-btn').forEach(button => {
            button.addEventListener('click', function () {
                if (this.textContent === "Add") {
                    cartCount++;
                    this.textContent = "Remove";
                    this.style.background = "red";
                } else {
                    cartCount = Math.max(0, cartCount - 1);
                    this.textContent = "Add";
                    this.style.background = "green";
                }
                cartCountElement.textContent = cartCount;
            });
        });
    </script>
</body>
</html>

```

Signup.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Blinkit - Signup</title>
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <style>
        * {
            margin: 0;
            padding: 0;
            box-sizing: border-box;
            font-family: Arial, sans-serif;
        }

        body {
            background-color: #f4f4f4;
            display: flex;
            align-items: center;
            justify-content: center;
            height: 100vh;
        }

        .box {
            width: 320px;
            background: white;
            padding: 25px;
            text-align: center;
            border-radius: 10px;
            box-shadow: 0px 0px 12px rgba(0, 0, 0, 0.1);
        }

        h2 {
            color: green;
            margin-bottom: 15px;
        }

        h2 span:first-child {
            color: rgb(248, 204, 9);
        }

        input {
            width: 100%;
            padding: 10px;
            margin: 10px 0;
            border: 1px solid #ccc;
            border-radius: 5px;
            font-size: 15px;
        }
    </style>

```

```

    button {
      width: 100%;
      padding: 12px;
      background: #28a745;
      color: white;
      font-size: 16px;
      border: none;
      cursor: pointer;
      border-radius: 5px;
    }

    button:hover {
      background: #218838;
    }

    p {
      margin-top: 12px;
      font-size: 14px;
    }

    a {
      color: #28a745;
      text-decoration: none;
      font-weight: bold;
    }

    a:hover {
      text-decoration: underline;
    }
  </style>
</head>
<body>
  <div class="box">
    <h2><span>blink</span><span style="color:green;">it</span> Signup</h2>
    <form action="Signup" method="post">
      <input type="email" name="username" placeholder="Email" required>
      <input type="password" name="password" placeholder="Password" required>
      <button type="submit">Sign Up</button>
      <p>Already have an account? <a href="login.html">Login</a></p>
    </form>
  </div>
</body>
</html>

```

6. Future Enhancements

- Add backend integration using Node.js and MongoDB.
- Enable login/signup and checkout functionalities.
- Store cart data persistently using local storage or a database.
- Add admin panel for product management.

7. Conclusion

The frontend e-commerce mini-project successfully demonstrates essential e-commerce functionalities using core web technologies. It serves as a practical foundation for more complex, full-stack development in future iterations.