Aalim Muhammed Salegh College of Engineering

Domain: Cloud Computing

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PROJECT:

E-COMMERCE APP

GIVEN STATEMENT:

Problem Statement: Build an artisanal e-commerce platform using IBM Cloud Foundry. Connect skilled artisans with a global audience. Showcase handmade products, from exquisite jewelry to artistic home decor. Implement secure shopping carts, smooth payment gateways, and an intuitive checkout process. Nurture creativity and support small businesses through an artisan's dream marketplace!

Creating a E- commerce applications on cloud foundry

Creating an e-commerce application on Cloud Foundry involves several steps:

- **SET UP CLOUD FOUNDRY:**
  Ensure you have access to a Cloud Foundry environment. You can use a platform like IBM Cloud, Pivotal Web Services, or SAP Cloud Platform, all of which support Cloud Foundry

- **SELECT A PROGRAMMING LANGUAGE:**
  Choose a programming language and framework for your e-commerce application. Popular choices include Java (using Spring Boot), Node.js, or Ruby on Rails.

- **DATABASE**:
  Decide on a database for your application. Cloud Foundry supports various databases like PostgreSQL, MySQL, and MongoDB. You can choose the one that best fits your needs.

- **PUSH TO CLOUD FOUNDRY**:
  Use the Cloud Foundry command-line interface (cf CLI) to push your application to the Cloud Foundry platform. This will make your application accessible on the cloud.

- **SERVICE INTEGRATION:**
  Integrate any necessary services like payment gateways, caching, or CDN services. You can use Cloud Foundry's marketplace to add and bind these services to your app.
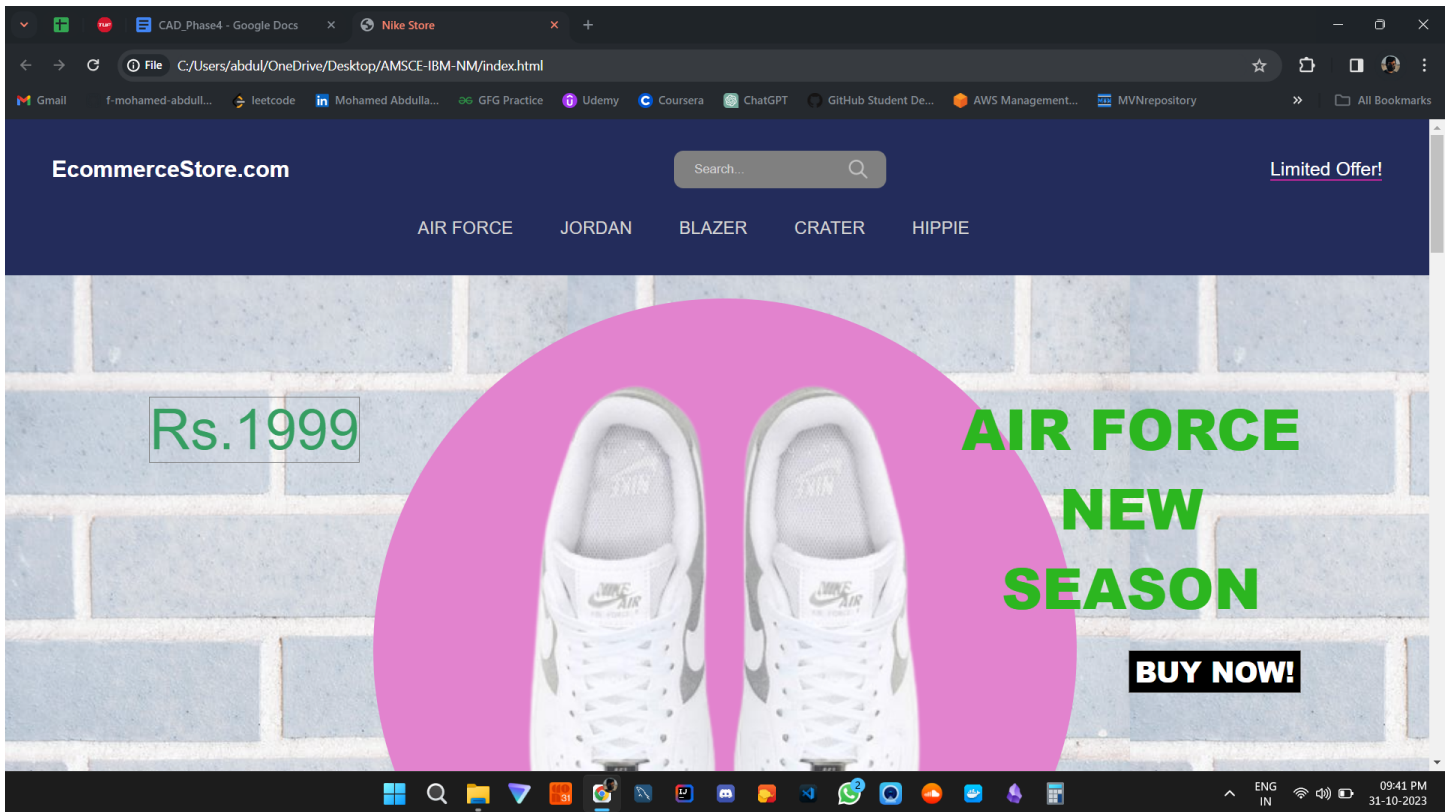
- **SCALING**:
  Configure auto-scaling and load balancing to ensure your e-commerce application can handle varying levels of traffic.

- **MONITORING AND LOGGING** :
  Set up monitoring and logging to keep an eye on the health and performance of your application. Cloud Foundry often provides tools and integrations for this purpose.

Wishlist products:

To implement a wishlist functionality in an e-commerce website using HTML, you'll typically need to use a combination of HTML, JavaScript, and potentially a back-end language for storing and retrieving wishlist data

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Code:

```
<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=1.0">
    <link rel="preconnect" href="https://fonts.googleapis.com">
```

```html
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=League+Spartan:wght@500&family=Nunito&family=Palanquin+Dark:wght@500&family=Roboto+Slab:wght@700&display=swap" rel="stylesheet">
  <link rel="stylesheet" href="style.css">
  <title>Nike Store</title>
</head>

<body>
  <nav id="nav">
    <div class="navTop">
      <div class="navItem">
        <h2>EcommerceStore.com</h2>
        <!-- <img src="./img/sneakers.png" alt=""> -->
      </div>
      <div class="navItem">
        <div class="search">
          <input type="text" placeholder="Search..." class="searchInput">
```

```html
            <img src="./img/search.png" width="20"
height="20" alt="" class="searchIcon">
            </div>
          </div>
          <div class="navItem">
            <span class="limitedOffer">Limited Offer!</span>
          </div>
        </div>
        <div class="navBottom">
          <h3 class="menuItem">AIR FORCE</h3>
          <h3 class="menuItem">JORDAN</h3>
          <h3 class="menuItem">BLAZER</h3>
          <h3 class="menuItem">CRATER</h3>
          <h3 class="menuItem">HIPPIE</h3>
        </div>
      </nav>
      <div class="slider">
        <div class="sliderWrapper">
          <div class="sliderItem">
            <img src="./img/air.png" alt="" class="sliderImg"
id="firsts">
            <div class="sliderBg"></div>
```

```html
        <h1 class="sliderTitle">AIR FORCE</br>
NEW</br> SEASON</h1>
        <h2 class="sliderPrice">Rs.1999</h2>
        <a href="#product">
            <button class="buyButton">BUY
NOW!</button>
        </a>
    </div>
    <div class="sliderItem">
        <img src="./img/jordan.png" alt=""
class="sliderImg" id="jordan">
        <div class="sliderBg"></div>
        <h1 class="sliderTitle">AIR JORDAN</br>
NEW</br> SEASON</h1>
        <h2 class="sliderPrice">Rs 1149</h2>
        <a href="#product">
            <button class="buyButton">BUY
NOW!</button>
        </a>
    </div>
    <div class="sliderItem">
        <img src="./img/blazer.png" alt=""
class="sliderImg" id="thirds">
```

```html
        <div class="sliderBg"></div>
        <h1 class="sliderTitle">BLAZER</br> NEW</br> SEASON</h1>
        <h2 class="sliderPrice">Rs 2100</h2>
        <a href="#product">
            <button class="buyButton">BUY NOW!</button>
        </a>
    </div>
    <div class="sliderItem">
        <img src="./img/crater.png" alt="" class="sliderImg" id="crater">
        <div class="sliderBg"></div>
        <h1 class="sliderTitle">CRATER</br> NEW</br> SEASON</h1>
        <h2 class="sliderPrice">Rs 2999</h2>
        <a href="#product">
            <button class="buyButton">BUY NOW!</button>
        </a>
    </div>
    <div class="sliderItem">
```

```html
            <img src="./img/hippie.png" alt="" class="sliderImg">
            <div class="sliderBg"></div>
            <h1 class="sliderTitle">HIPPIE</br> NEW</br> SEASON</h1>
            <h2 class="sliderPrice">Rs 999</h2>
            <a href="#product">
                <button class="buyButton">BUY NOW!</button>
            </a>
        </div>
    </div>
  </div>


  <div class="features">
    <div class="feature">
        <img src="./img/shipping.png" alt="" class="featureIcon">
        <span class="featureTitle">FREE SHIPPING</span>
        <span class="featureDesc">Free worldwide shipping on all orders.</span>
    </div>
    <div class="feature">
```

```html
        <img class="featureIcon" src="./img/return.png" alt="">
        <span class="featureTitle">30 DAYS RETURN</span>
        <span class="featureDesc">No question return and easy refund in 14 days.</span>
    </div>
    <div class="feature">
        <img class="featureIcon" src="./img/gift.png" alt="">
        <span class="featureTitle">GIFT CARDS</span>
        <span class="featureDesc">Buy gift cards and use coupon codes easily.</span>
    </div>
    <div class="feature">
        <img class="featureIcon" src="./img/contact.png" alt="">
        <span class="featureTitle">CONTACT US!</span>
        <span class="featureDesc">Keep in touch via email and support system.</span>
    </div>
  </div>

    <div class="product" id="product">
```

```html
<img src="./img/air.png" alt="" class="productImg">
<div class="productDetails">
    <h1 class="productTitle">AIR FORCE</h1>
    <h2 class="productPrice">Rs 1999</h2>
    <p class="productDesc">Lorem ipsum dolor sit amet consectetur impal adipisicing elit. Alias assumenda
        dolorum
        doloremque sapiente aliquid aperiam.</p>
    <div class="colors">
        <div class="color"></div>
        <div class="color"></div>
    </div>
    <div class="sizes">
        <div class="size">42</div>
        <div class="size">43</div>
        <div class="size">44</div>o
    </div>
    <button class="productButton">BUY NOW!</button>
</div>
<div class="payment">
    <h1 class="payTitle">Personal Information</h1>
```

```html
        <label>Name and Surname</label>
        <input type="text" placeholder="John Doe"
class="payInput">
        <label>Phone Number</label>
        <input type="text" placeholder="+1 234 5678"
class="payInput">
        <label>Address</label>
        <input type="text" placeholder="Elton St 21 22-145"
class="payInput">
        <h1 class="payTitle">Card Information</h1>
        <div class="cardIcons">
            <img src="./img/visa.png" width="40" alt=""
class="cardIcon">
            <img src="./img/master.png" alt="" width="40"
class="cardIcon">
        </div>
        <input type="password" class="payInput"
placeholder="Card Number">
        <div class="cardInfo">
            <input type="text" placeholder="mm"
class="payInput sm">
            <input type="text" placeholder="yyyy"
class="payInput sm">
```

```
            <input type="text" placeholder="cvv"
class="payInput sm">
        </div>
        <button class="payButton">Checkout!</button>
        <span class="close">X</span>
    </div>
  </div>
  <div class="gallery">
    <div class="galleryItem">
      <h1 class="galleryTitle">Be Yourself!</h1>
      <img
src="https://images.pexels.com/photos/13159244/pexels-phot
o-13159244.jpeg"
          alt="" class="galleryImg">
    </div>
    <div class="galleryItem">
      <img
src="https://images.pexels.com/photos/2982100/pexels-photo
-2982100.jpeg?auto=compress&cs=tinysrgb&w=1260&h=75
0&dpr=1"
          alt="" class="galleryImg">
      <h1 class="galleryTitle">This is the First Day of Your
New Life</h1>
```

```
        </div>

        <div class="galleryItem">

            <h1 class="galleryTitle">Just Do it!</h1>

            <img
src="https://images.pexels.com/photos/1018911/pexels-photo
-1018911.jpeg?auto=compress&cs=tinysrgb&w=1260&h=75
0&dpr=1"

                alt="" class="galleryImg">

        </div>

    </div>

    <div class="newSeason">

        <div class="nsItem">

            <img
src="https://images.pexels.com/photos/34514/spot-runs-start-
la.jpg?auto=compress&cs=tinysrgb&w=1260&h=750&dpr=1
"

                alt="" class="nsImg">

        </div>

        <div class="nsItem">

            <h3 class="nsTitleSm">WINTER NEW
ARRIVALS</h3>

            <h1 class="nsTitle">New Season</h1>

            <h1 class="nsTitle">New Collection</h1>
```

```html
                <a href="#nav">
                    <button class="nsButton">CHOOSE YOUR STYLE</button>
                </a>
            </div>
            <div class="nsItem">
                <img
src="https://images.pexels.com/photos/7856965/pexels-photo-7856965.jpeg?auto=compress&cs=tinysrgb&dpr=2&w=500"
                    alt="" class="nsImg">
            </div>
        </div>
        <footer>
            <div class="footerLeft">
                <div class="footerMenu">
                    <h1 class="fMenuTitle">About Us</h1>
                    <ul class="fList">
                        <li class="fListItem">Company</li>
                        <li class="fListItem">Contact</li>
                        <li class="fListItem">Careers</li>
                        <li class="fListItem">Affiliates</li>
                        <li class="fListItem">Stores</li>
```

```html
        </ul>
    </div>
    <div class="footerMenu">
        <h1 class="fMenuTitle">Useful Links</h1>
        <ul class="fList">
            <li class="fListItem">Support</li>
            <li class="fListItem">Refund</li>
            <li class="fListItem">FAQ</li>
            <li class="fListItem">Feedback</li>
            <li class="fListItem">Stories</li>
        </ul>
    </div>
    <div class="footerMenu">
        <h1 class="fMenuTitle">Products</h1>
        <ul class="fList">
            <li class="fListItem">Air Force</li>
            <li class="fListItem">Air Jordan</li>
            <li class="fListItem">Blazer</li>
            <li class="fListItem">Crater</li>
            <li class="fListItem">Hippie</li>
        </ul>
    </div>
```

```html
        </div>
        <div class="footerRight">
            <div class="footerRightMenu">
                <h1 class="fMenuTitle">Subscribe to our newsletter</h1>
                <div class="fMail">
                    <input type="text" placeholder="your@email.com" class="fInput">
                    <button class="fButton">Join!</button>
                </div>
            </div>
            <div class="footerRightMenu">
                <h1 class="fMenuTitle">Follow Us</h1>
                <div class="fIcons">
                    <img src="./img/facebook.png" alt="" class="fIcon">
                    <img src="./img/twitter.png" alt="" class="fIcon">
                    <img src="./img/instagram.png" alt="" class="fIcon">
                    <img src="./img/whatsapp.png" alt="" class="fIcon">
                </div>
```
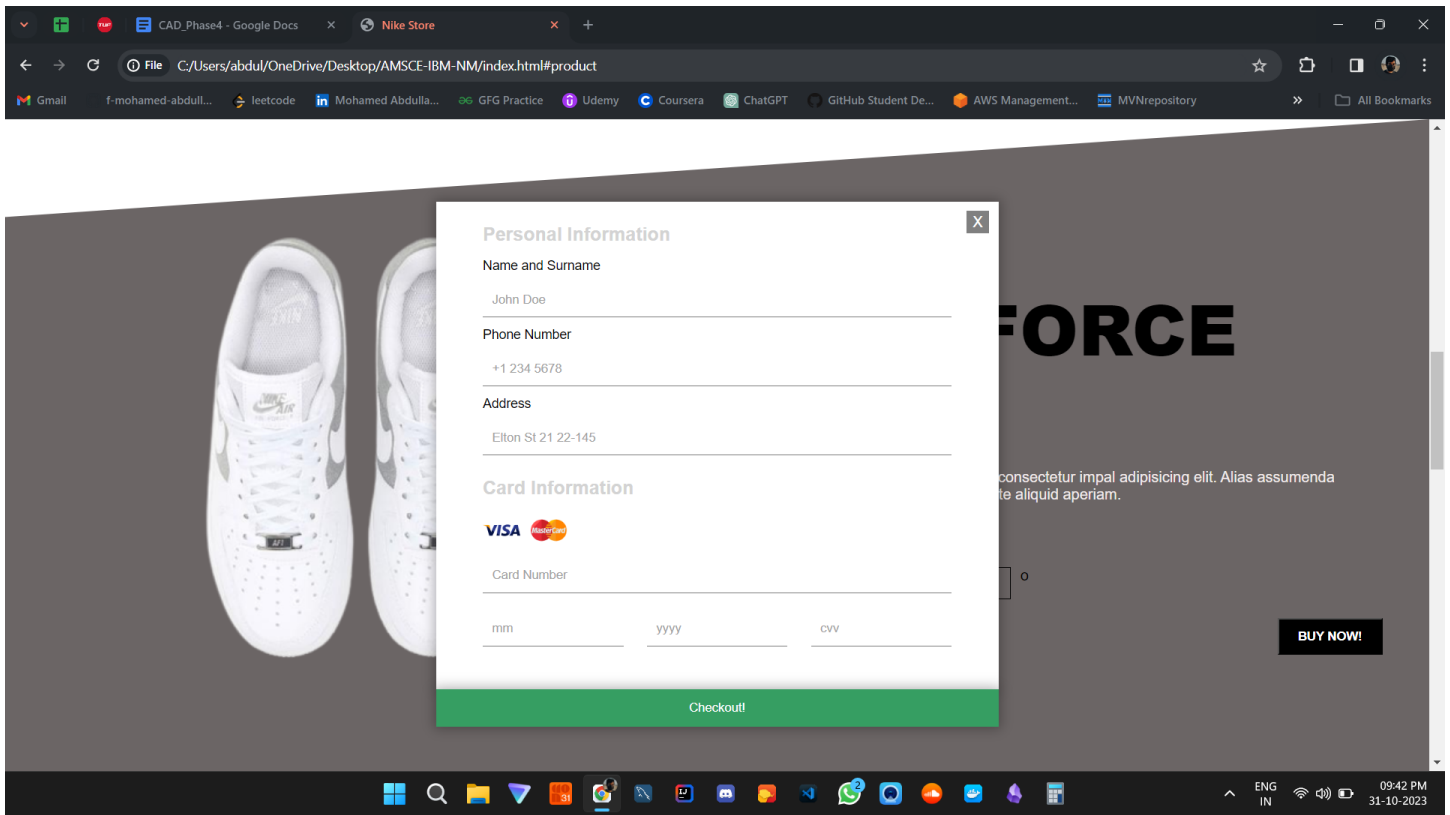
```
          </div>
          <div class="footerRightMenu">
             <span class="copyright">All rights reserved.
    2023.</span>
          </div>
       </div>
    </footer>
    <script src="./app.js"></script>
</body>

</html>
```

Payment method:

To working on an e-commerce website and need to handle payments, it's highly recommended to use a secure and established payment gateway to handle the payment process. Popular payment gateways such as Stripe, PayPal, or others provide secure mechanisms for processing payments without exposing sensitive information to your website.

Conclusion:

  Thus the development of ecommerce on cloud foundry is done.