**E-commerce Application on IBM Cloud Foundry**

**Abstract:**

This abstract introduces a cutting-edge e-commerce website based on cloud technology, poised to transform the world of online shopping. As businesses and consumers increasingly rely on the internet for their retail needs, the need for a scalable, reliable, and flexible e-commerce platform has become paramount. Leveraging the power of cloud computing, our innovative e-commerce website is designed to meet these demands and offer an unparalleled shopping experience.

**Html code:**

<head>

<link rel="stylesheet" href="./ecommerce.css">

<link href="https://unpkg.com/ionicons@4.5.10-0/dist/css/ionicons.min.css" rel="stylesheet">

</head>

<body>

<header>

<div class="logo"><a href="#">ShoPperZ</a></div>

<div class="menu">

<a href="#">

<ion-icon name="close" class="close"></ion-icon>

</a>

<ul>

<li><a href="#" class="under">HOME</a></li>

<li><a href="#" class="under">SHOP</a></li>

<li><a href="#" class="under">OUR PRODUCTS</a></li>

<li><a href="#" class="under">CONTACT US</a></li>

<li><a href="#" class="under">ABOUT US</a></li>

</ul>

</div>

<div class="search">

<a href=""><input type="text" placeholder="search products" id="input">

<ion-icon class="s" name="search"></ion-icon>

</a>

</div>

<div class="heading">

<ul>

<li><a href="#" class="under">HOME</a></li>

<li><a href="#" class="under">SHOP</a></li>

<li><a href="#" class="under">OUR PRODUCTS</a></li>

<li><a href="#" class="under">CONTACT US</a></li>

<li><a href="#" class="under">ABOUT US</a></li>

</ul>

</div>

<div class="heading1">

<ion-icon name="menu" class="ham"></ion-icon>

</div>

</header>

<section>

<div class="section">

<div class="section1">

<div class="img-slider">

<img src="https://images.pexels.com/photos/6347888/pexels-photo-6347888.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=750&w=1260" alt="" class="img">

<img src="https://images.pexels.com/photos/3962294/pexels-photo-3962294.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=750&w=1260" alt="" class="img">

<img src="https://images.pexels.com/photos/2292953/pexels-photo-2292953.jpeg?auto=compress&cs=tinysrgb&dpr=2&w=500" alt="" class="img">

<img src="https://images.pexels.com/photos/1229861/pexels-photo-1229861.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=750&w=1260" alt="" class="img">

<img src="https://images.pexels.com/photos/1598505/pexels-photo-1598505.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=750&w=1260" alt="" class="img">

</div>

</div>

<div class="section2">

<div class="container">

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/1464625/pexels-photo-1464625.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940" alt=""></div>

<div class="name">SHOES</div>

<div class="price">500 rs</div>

<div class="info">Lorem ipsum dolor sit amet consectetur.</div>

</div>

<div class="items">

<div class="img img2"><img src="https://images.pexels.com/photos/3649765/pexels-photo-3649765.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500" alt=""></div>

<div class="name">MEN's T-SHIRT</div>

<div class="price">300rs</div>

<div class="info">Lorem ipsum dolor sit.</div>

</div>

<div class="items">

<div class="img img3"><img src="https://media.istockphoto.com/photos/folded-blue-jeans-on-a-white-background-modern-casual-clothing-flat-picture-id1281304280" alt=""></div>

<div class="name">JEANS</div>

<div class="price">1200rs</div>

<div class="info">Lorem ipsum dolor sit amet.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/8839887/pexels-photo-8839887.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940" alt=""></div>

<div class="name">WATCH</div>

<div class="price">1500 rs</div>

<div class="info">Lorem ipsum dolor sit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/6858618/pexels-photo-6858618.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940" alt=""></div>

<div class="name">SMART PHONE</div>

<div class="price">30,000 rs</div>

<div class="info">Lorem ipsum dolor sit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/5552789/pexels-photo-5552789.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940" alt=""></div>

<div class="name">TELEVISION</div>

<div class="price">45,000 rs</div>

<div class="info">Lorem ipsum dolor sit amet consectetur.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/4295985/pexels-photo-4295985.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500" alt=""></div>

<div class="name">HOODIES</div>

<div class="price">700 rs</div>

<div class="info">Lorem ipsum dolor sit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://media.istockphoto.com/photos/vintage-plates-with-silver-teaspoons-picture-id184363070" alt=""></div>

<div class="name">DINNER SET</div>

<div class="price">1100 rs</div>

<div class="info">Lorem ipsum dolor sit amet consectetur adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/6463348/pexels-photo-6463348.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500" alt=""></div>

<div class="name">BLANKETS</div>

<div class="price">300 rs</div>

<div class="info">Lorem ipsum dolor sit amet consectetur adipisicing.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/2659939/pexels-photo-2659939.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500" alt=""></div>

<div class="name">LAPTOP</div>

<div class="price">1,00,000 rs</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://media.istockphoto.com/photos/modern-kitchen-microwave-oven-picture-id1144960519" alt=""></div>

<div class="name">MICROWAVE</div>

<div class="price">4000</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://media.istockphoto.com/photos/black-coffee-maker-with-green-led-lights-picture-id177395430" alt=""></div>

<div class="name">COFFEE MAKER</div>

<div class="price">2000</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/6606354/pexels-photo-6606354.jpeg?auto=compress&cs=tinysrgb&dpr=1&w=500" alt=""></div>

<div class="name">BED</div>

<div class="price">10000</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://media.istockphoto.com/photos/woman-turning-on-air-conditioner-picture-id1325708905" alt=""></div>

<div class="name">AIR CONDITIONER</div>

<div class="price">50000</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/5834/nature-grass-leaf-green.jpg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940" alt=""></div>

<div class="name">BOOK</div>

<div class="price">500</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/4339598/pexels-photo-4339598.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940" alt=""></div>

<div class="name">BAG</div>

<div class="price">900</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://media.istockphoto.com/photos/hand-of-a-lady-selecting-yellow-colored-saree-in-a-shop-picture-id1301740530" alt=""></div>

<div class="name">SAREES</div>

<div class="price">2000</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

<div class="items">

<div class="img img1"><img src="https://images.pexels.com/photos/5816934/pexels-photo-5816934.jpeg?auto=compress&cs=tinysrgb&dpr=2&h=650&w=940" alt=""></div>

<div class="name">WASHING MACHINE</div>

<div class="price">50000</div>

<div class="info">Lorem ipsum dolor sit amet consectetur, adipisicing elit.</div>

</div>

</div>

**Css code:**

{

margin: 0;

padding: 0;

box-sizing: border-box;

}

header {

display: flex;

justify-content: space-evenly;

align-items: center;

height: 60px;

width: 100%;

background: black;

}

.heading ul {

display: flex;

}

.logo a {

color: white;

transition-duration: 1s;

font-weight: 800;

}

.logo a:hover {

color: rgb(240, 197, 6);

transition-duration: 1s;

}

.heading ul li {

list-style: none;

}

.heading ul li a {

margin: 5px;

text-decoration: none;

color: black;

font-weight: 500;

position: relative;

color: white;

margin: 2px 14px;

font-size: 18px;

transition-duration: 1s;

}

.heading ul li a:active {

color: red;

}

.heading ul li a:hover {

color: rgb(243, 168, 7);

transition-duration: 1s;

}

.heading ul li a::before {

content: "";

height: 2px;

width: 0px;

position: absolute;

left: 0;

bottom: 0;

background-color: white;

transition-duration: 1s;

}

.heading ul li a:hover::before {

width: 100%;

transition-duration: 1s;

background-color: rgb(243, 168, 7);

}

#input {

height: 30px;

width: 300px;

text-decoration: none;

border: 0px;

padding: 5px;

}

.logo a {

color: white;

font-size: 35px;

font-weight: 500;

text-decoration: none;

}

ion-icon {

width: 30px;

height: 30px;

background-color: white;

color: black;

}

ion-icon:hover {

cursor: pointer;

}

.search a {

display: flex;

}

header a ion-icon {

position: relative;

right: 3px;

}

.img-slider img {

height: 720px;

width: 1080px;

}

@keyframes slide {

0% {

left: 0px;

}

15% {

left: 0px;

}

20% {

left: -1080px;

}

32% {

left: -1080px;

}

35% {

left: -2160px;

}

47% {

left: -2160px;

}

50% {

left: -3240px;

}

63% {

left: -3240px;

}

66% {

left: -4320px;

}

79% {

left: -4320px;

}

82% {

left: -5400px;

}

100% {

left: 0px;

}

}

.img-slider {

display: flex;

float: left;

position: relative;

width: 1080px;

height: 720px;

animation-name: slide;

animation-duration: 10s;

animation-iteration-count: infinite;

transition-duration: 2s;

}

.heading1 {

opacity: 0;

}

.search {

display: flex;

position: relative;

}

.section1 {

width: 1080px;

overflow: hidden;

justify-content: center;

align-items: center;

margin: 0px auto;

}

.section2 .container {

display: flex;

width: 100%;

height: max-content;

flex-wrap: wrap;

justify-content: center;

margin: 10px auto;

}

.section2 .container .items {

margin: 10px;

width: 200px;

height: 300px;

background-color: white;

border: 2.5px solid black;

border-radius: 12px;

}

.section2 .container .items .name {

text-align: center;

background-color: rgb(240, 197, 6);

height: 25px;

padding-top: 4px;

color: white;

margin: 0;

}

.section2 .container .items .price {

float: left;

padding-left: 10px;

display: block;

width: 100%;

color: rgb(255, 0, 0);

font-weight: 650;

}

.section2 .container .items .info {

padding-left: 10px;

color: rgb(243, 168, 7);

}

.section2 .container .items .img img {

width: 200px;

height: 200px;

margin: 0;

padding: 0;

border-radius: 12px;

transition-duration: 0.8s;

}

.section2 .container .items .img {

overflow: hidden;

margin: 0;

}

.section2 .container .items:hover .img img {

transform: scale(1.2);

transition-duration: 0.8s;

border-radius: 12px;

}

footer {

display: flex;

flex-direction: column;

background-color: black;

align-items: center;

color: white;

}

.footer1 {

display: flex;

flex-direction: column;

align-items: center;

color: white;

margin-top: 15px;

}

.social-media {

display: flex;

justify-content: center;

color: white;

flex-wrap: wrap;

}

.social-media a {

color: white;

margin: 20px;

border-radius: 5px;

margin-top: 10px;

color: white;

}

.social-media a ion-icon {

color: white;

background-color: black;

}

.social-media a:hover ion-icon {

color: red;

transform: translateY(5px);

}

.footer2 {

display: flex;

width: 100%;

justify-content: space-evenly;

align-items: center;

text-decoration: none;

flex-wrap: wrap;

}

.footer0 {

font-weight: 1200;

transition-duration: 1s;

}

.footer0:hover {

color: rgb(243, 168, 7);

}

.footer2 .heading {

font-weight: 900;

font-size: 18px;

}

.footer3 {

margin-top: 60px;

margin-bottom: 20px;

display: flex;

flex-wrap: wrap;

justify-content: center;

}

.footer2 .heading:hover {

color: rgb(243, 168, 7);

}

.footer2 .div:hover {

transform: scale(1.05);

}

.footer3 h4 {

margin: 0 10px;

}

.footer2 div {

margin: 10px;

}

.menu {

visibility: hidden;

}

.heading1 .ham:active {

color: red;

}

.items {

overflow: hidden;

}

.ham,

.close {

cursor: pointer;

}

@media screen and (max-width: 1250px) {

.heading ul li {

display: none;

}

.items {

transform: scale(0.9);

}

.img-slider img {

height: 60vw;

width: 80vw;

}

.ham:active {

color: red;

}

.menu {

display: flex;

flex-direction: column;

align-items: center;

}

.menu a ion-icon {

position: absolute;

}

@keyframes slide1 {

0% {

left: 0vw;

}

15% {

left: 0vw;

}

20% {

left: -80vw;

}

32% {

left: -80vw;

}

35% {

left: -160vw;

}

47% {

left: -160vw;

}

50% {

left: -240vw;

}

63% {

left: -240vw;

}

66% {

left: -320vw;

}

79% {

left: -320vw;

}

82% {

left: -400vw;

}

100% {

left: 0vw;

}

}

.menu ul {

display: flex;

flex-direction: column;

position: absolute;

width: 100vw;

height: 100vh;

background-color: black;

left: 0;

top: 0;

z-index: 11;

align-items: center;

justify-content: center;

opacity: 1;

}

.close {

z-index: 34;

color: white;

background-color: black;

}

.close:active {

color: red;

}

.menu ul li {

list-style: none;

margin: 20px;

border-top: 3px solid white;

width: 80%;

text-align: center;

padding-top: 10px;

}

.menu ul li a {

text-decoration: none;

padding-top: 10px;

color: white;

font-weight: 900;

}

.menu ul li a:hover {

color: rgb(240, 197, 6);

}

.img-slider {

display: flex;

float: left;

position: relative;

width: 80%;

height: 60%;

animation-name: slide1;

animation-duration: 10s;

animation-iteration-count: infinite;

transition-duration: 2s;

}

.section1 {

width: 80%;

overflow: hidden;

justify-content: center;

align-items: center;

margin: 0px auto;

}

.heading1 {

opacity: 1;

position: relative;

bottom: 8px;

}

.search a {

display: flex;

flex-wrap: nowrap;

}

.heading1 .ham {

background-color: black;

color: white;

}

#input {

width: 200px;

flex-shrink: 2;

}

header {

height: 150px;

}

}

@media screen and (max-width: 550px) {

.heading ul li {

display: none;

}

.heading1 {

opacity: 1;

bottom: 8px;

}

header {

height: 250px;

flex-wrap: wrap;

display: flex;

flex-direction: column;

}

#input {

width: 150px;

}

.close {

z-index: 34;

}

.search a {

display: flex;

flex-wrap: nowrap;

}

}

**Java script code:**

const close = document.querySelector(".close");

const open = document.querySelector(".ham");

const menu = document.querySelector(".menu");

close.addEventListener("click", () => {

menu.style.visibility = "hidden";

});

open.addEventListener("click", () => {

menu.style.visibility = "visible";

});

**Conclusion:**

this cloud-based e-commerce website represents the future of online retail, offering businesses the tools they need to succeed in the digital age. With its scalability, reliability, security, and flexibility, it empowers businesses to adapt to ever-changing market demands, while providing customers with a convenient, personalized, and efficient shopping experience. The cloud is the backbone of this innovative platform, ensuring it remains at the forefront of e-commerce technology.