Abstract:

The main objective of our project is to create an online store.We'll build a website for the leather sector that is based on commerce.We would like to sell some leather-based goods in that sector, such as leather shoes, purses, belts, caps, wallets, watch straps, jackets, and gloves.To reach our product among all of them necessary is the fundamental demand for developing a website.For the purpose of keeping crucial data, including customer information, product information, sales and transaction data, and so on, we have established a database.

Front-end:

Our e-commerce website's front end has all the necessary functionality and is more user-interactive.The navigation bar, search bar, login and signup buttons, picture sliders, copyrights information, and terms and cookie information are all frontend components.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>My E-Commerce Website</title>

  <style>

    .logo a {

      color: white;

      font-size: 35px;

      font-weight: 500;

      text-decoration: none;

    }


    nav ul {

      list-style: none;

      padding: 0;

      margin: 0;

      color: black;

    }
```

```css
nav {

  background-color: green;

}


nav ul li {

  margin-right: 20px;

}


.login {

  background-color: rgb(145, 33, 49);

  color: #fff;

  padding: 8px 16px;

  text-decoration: none;

  border-radius: 5px;

  font-weight: bold;

  transition: background-color 0.3s;

  float: right;

}


.signup {

  background-color: rgb(58, 75, 208);

  color: #fff;

  padding: 8px 16px;

  text-decoration: none;

  border-radius: 5px;

  font-weight: bold;

  transition: background-color 0.3s;

  float: right;
```

```css
    }

    .login:hover {
       background-color: white;
       color: rgb(145, 33, 49);
    }


    .signup:hover {
       background-color: white;
       color: rgb(58, 75, 208);
    }


    .logo {
       width: 2px;
       height: 1px;
    }


    .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;
```

```css
        }
    }

    .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;
    }

    .search {
        display: flex;
        position: relative;
    }

    .services {
        position: relative;
        display: inline-block;
    }

    .services-content {
        display: none;
        position: absolute;
        background-color: #f9f9f9;
```

```css
      min-width: 160px;

      box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2);

      z-index: 1;

    }


    .services:hover .services-content {

      display: block;

    }
</style>
```

```html
<script>


  const navLinks = document.querySelectorAll('.nav a');

  const cartCount = document.getElementById('cart-count');



  function setActivePage(event) {

    navLinks.forEach(link => link.classList.remove('active'));

    event.target.classList.add('active');

  }



  function updateCart() {


    const currentCount = parseInt(cartCount.textContent);

    cartCount.textContent = currentCount + 1;

  }
```

```
    navLinks.forEach(link => {

      link.addEventListener('click', (event) => {

        setActivePage(event);

      });

    });



    const addButton = document.getElementById('add-to-cart-button');

    if (addButton) {

      addButton.addEventListener('click', () => {

        updateCart();

      });

    }
  </script>
```

```html
</head>
<body>


<header>
  <div class="logo"><a href="#">The Leather Industry</a></div>
  <nav>
    <ul>
      <li><a href="#">Home</a></li>
      <li><a href="#">About</a></li>
      <li><a href="#">Services</a></li>
```

```html
        <li>

          <div class="Services">

            <a href="#">Wishlist</a>

            <a href="#">Personalized Recommendations</a>

            <a href="#">Product Reviews</a>

          </div>

        </li>

        <li><a href="#">Contact</a></li>

        <li><a href="#" class="login">Login</a></li>

        <li><a href="#" class="signup">Sign Up</a></li>

      </ul>

      <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="cart">

        <span class="cart-icon">🛒</span>

        <span id="cart-items">0</span>

      </div>

    </nav>

</header>

<main>


<section class="img-slider">

  <div class="img-slider">

      <img src="c:\Users\User\Pictures\logo.png">

      <img
src="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBwgHBgkIBwgKCgkLDRYPD
```

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      Shipping & Delivery

      Returns & Exchanges

      Customer Support

      Terms & Conditions

   </div>

   Services

</section>

</body>

</html>

Database:

IBM cloud is a vast data storage method . The IBM®Cloudant distributed database has a 99.99% SLA and
is completely managed. It is designed for heavy workloads and quickly expanding online and mobile
apps. For hybrid or multicloud systems, Cloudant's API and replication protocols are compatible with
Apache CouchDB and it elastically scales throughput and storage. We have use cloudant database with
json for creating datbases which were required for storaging information in ecommerce website by
using ibm cloud.three databases are created for storing information.Database1 is used for storing
product details,database2 is used for storing customer details and database3 is used for sale and order

Query:

Datbase1:product details (IBM link for product details: {

  "id": "7eeb69405a1c1fee787bbe6ce927116f",

  "key": "7eeb69405a1c1fee787bbe6ce927116f",

```
  "value": {

    "rev": "2-f0122cf7f17152dbe0fead3247833748"

 }

})

{

 "prod_id":"lp001",

 "product_name":"leather shoes",

 "description":"durability for timeless footwear ",

 "price":"$50",

 "stock":"full"

 }

 {

   "prod_id":"lp002",

 "product_name":"leather bags",

 "description":"adding a touch of sophistication to your outfit",

 "price":"$70",

 "stock":"full"


}

 {

 "prod_id":"lp004",

 "product_name":"leather belts",

 description:"adding a polised look to your attair",

 price:"$40",

 stock:"full"


 }

 {
```

"prod_id":"lp005",

 "product_name":"leather jackets",

 "description":"blend of classic and warmth",

"price" :"$80",

 "stock":"full"

 }
{

"prod_id":"lp006",

 "product_name":"leather gloves",

 "description":"keeping your hands cozy",

 "price":"$25",

 "stock":"full"
 }
{

 "prod_id":"lp007",

 "product_name":"leather wristwatch",

 "description":"making your watch stretchable",

 "price":"$20",

 "stock":"full"

}

 {

  "prod_id":"lp008",

 "product_name":"leather hats",

 "description":"offers fashionable touch to you",

 "price":"$30",

```
  "stock":"full"

}

Database2:customer details(IBM link for customer details: {

 "id": "058a624389be77f19cf0e854a9ed05b0",

 "key": "058a624389be77f19cf0e854a9ed05b0",

 "value": {

  "rev": "1-944a1cf94daebcce92a5d811db164291"

 }

})

{

 "0": {

  "cus id": "li001",

  "fname": "abi",

  "lname": "naya",

  "gender": "F",

  " email_id": "abinaya06@gmail.com",

  "address": "no 4,keelaraja veedi ,thanjavur-614625, ph-no:9863457890"

 },

 "1": {

  "cus id": "li002",

  "fname": "abinesh",

  "lname": "bath",

  "gender": "M",

  " email_id": "abiabinesh@gmail.com",

  "address": "no-436,maada  veedi ,cumbum,theni-600875,ph-no:8882657890"

 },

 "2": {

  "cus id": "li003",

  "fname": "lansuri",
```

    "lname": "",

    "gender": "F",

    " email_id": "lansu2003@gmail.com",

    "address": "no-436,mgr nagar ,sollinganallur,chennai-600011,ph-no:8626987090"

  },

  "3": {

    "cus id": "li004",

    "fname": "siva",

    "lname": "sakthi",

    "gender": "O",

    " email_id": "sivasakthi10@gmail.com",

    "address": "no-424,muslim street,old town ,cuddalore-600005,ph-no:8751723120"

  },

  "4": {

    "cus id": "li005",

    "fname": "zach",

    "lname": "hamin",

    "gender": "M",

    " email_id": "riderzachh@gmail.com",

    "address": "no-7,north st ,thaiyur,kallakuruchi-610875,ph-no:8229317890"

  },

  "_id": "058a624389be77f19cf0e854a9ed05b0",

  "_rev": "1-944a1cf94daebcce92a5d811db164291"

}

Database 3:sales and transaction:(IBM link for sales& transaction: {

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  "key": "0e2c158d1f8c6cbf3f1fa40285a6d5c5",

  "value": {

    "rev": "1-d3561814f3848fa3fbb2e73b84cb7ccf"

```
 }
})
[{
  "order id":"OCP001",
  "customer id":"li002",
  "product id":"lp002",
  "order date":"20/04/2023",
  "received by":"23/04/2023",
  "quantity":"1",
  "total":"$51"
},
{
 "order id":"OCP002",
  "customer id":"li003",
  "product id":"lp001",
  "order date":"21/04/2023",
  "received by":"24/04/2023",
  "quantity":"1",
  "total":"$71"
},
{

"order id":"OCP003",
  "customer id":"li004",
  "product id":"lp004",
  "order date":"25/04/2023",
  "received by":"28/04/2023",
  "quantity":"1",
  "total":"$41"
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    },

    {

        "order id":"OCP004",

        "customer id":"li005",

        "product id":"lp003",

        "order date":"26/04/2023",

        "received by":"29/04/2023",

        "quantity":"2",

        "total":"$82"

    },

    {

        "order id":"OCP005",

        "customer id":"li001",

        "product id":"lp007",

        "order date":"30/04/2023",

        "received by":"02/05/2023",

        "quantity":"1",

        "total":"$41"

    }

]

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.Front end involves all the user required features while the cloudant is act as a backbone for storing information via databases.