VNR VJIET

Name of the Laboratory:
Web Application Development

Name of the Experiment:
Web Application for Shopping Cart
Experiment No:

Week 1: Build a responsive web application for shopping cart with registration, login, catalog and cart pages using CSS3 features, flex and grid.

LOGIN.HTML

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link rel="stylesheet" href="login.css" />
  </head>
  <body>
    <div class="two">
      <form action="./catalog.html">
        <h6>LOGIN</h6>
        <label for="username">Username:</label>
        <input type="text" id="username" name="username" /><br /><br />
        <label for="password">Password :</label>
        <input type="password" id="password" name="password" /><br /><br />
        <button type="submit" value="Submit">Submit</button>
      </form>
    </div>
  </body>
</html>
```

LOGIN.CSS

```css
body {
  background-color: #c5c5a1;
  display: flex;
```

```css
    }
    .two {
        display: flex;
        justify-content: center;
        align-items: center;
        margin: auto;
        margin-top: 240px;
        border: 1px solid black;
        padding: 30px;
        width: 300px;
        border-radius: 20px;
        background-color: #a6c3ce;
        font-size: 20px;
        transition: transform 0.6s ease;
    }
    .two:hover {
        transform: scale(1.125);
    }
    input {
        border-radius: 10px;
        border: none;
        height: 20px;
    }
    input:focus {
        outline: none;
        border: none;
    }
```

CATALOG.HTML

```html
<!DOCTYPE html>
<html lang="en">
```

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```html
<head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Document</title>
  <link rel="stylesheet" href="catalog.css" />
</head>
<body>
  <nav class="navbar">
    <div class="right">
      <a href="./login.html">
        <img
          src="https://www.svgrepo.com/show/508319/thunder.svg"
          alt="Logo"
          class="logo"
        /></a>
    </div>
    <div class="left">
      <a href="./login.html" class="nav-link">Login</a>
      <a href="./regist.html" class="nav-link">Register</a>
      <a href="./cart.html" class="nav-link">Cart</a>
      <input type="text" placeholder="Search..." class="search-bar" />
    </div>
  </nav>
  <div class="mfle">
    <div class="card-container">
      <div class="card">
        <img
```

```html
        src="https://cdn.tmobile.com/content/dam/t-mobile/en-p/cell-
phones/apple/Apple-iPhone-16-Pro/Desert-Titanium/Apple-iPhone-16-Pro-Desert-
Titanium-thumbnail.png"
          alt=""
        />
        <p>iPhone 16 Series</p>
        <button>Add to cart</button>
      </div>
      <div class="card">
        <img
          src="https://cdn.tmobile.com/content/dam/t-mobile/en-p/cell-
phones/apple/Apple-iPhone-16-Pro/Desert-Titanium/Apple-iPhone-16-Pro-Desert-
Titanium-thumbnail.png"
          alt=""
        />
        <p>iPhone 16 Series</p>
        <button>Add to cart</button>
      </div>
      <div class="card">
        <img
          src="https://cdn.tmobile.com/content/dam/t-mobile/en-p/cell-
phones/apple/Apple-iPhone-16-Pro/Desert-Titanium/Apple-iPhone-16-Pro-Desert-
Titanium-thumbnail.png"
          alt=""
        />
        <p>iPhone 16 Series</p>
        <button>Add to cart</button>
      </div>
    </div>
  </div>
  </body>
</html>
```

CART.HTML

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```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link rel="stylesheet" href="cart.css" />
  </head>
  <body>
    <nav class="navbar">
      <div class="right">
        <a href="./login.html">
            <img
              src="https://www.svgrepo.com/show/508319/thunder.svg"
              alt="Logo"
              class="logo"
          /></a>
      </div>
      <div class="left">
        <a href="./login.html" class="nav-link">Login</a>
        <a href="./regist.html" class="nav-link">Register</a>
        <a href="./cart.html" class="nav-link">Cart</a>
        <input type="text" placeholder="Search..." class="search-bar" />
      </div>
    </nav>

    <div class="cart">
      <p>Your cart is empty !</p>
    </div>
```
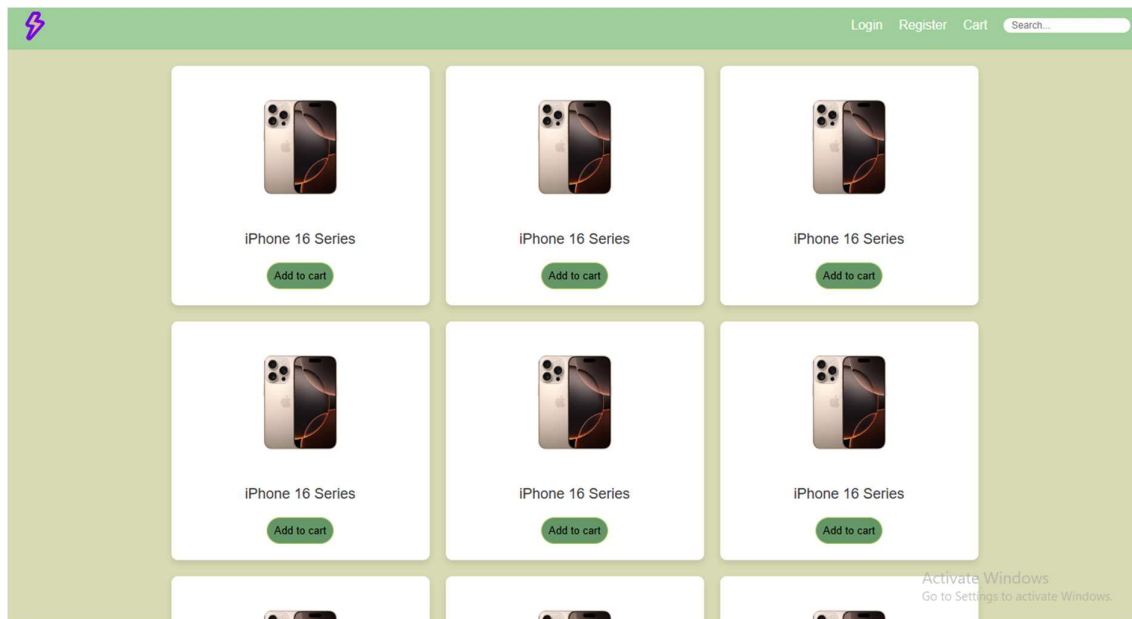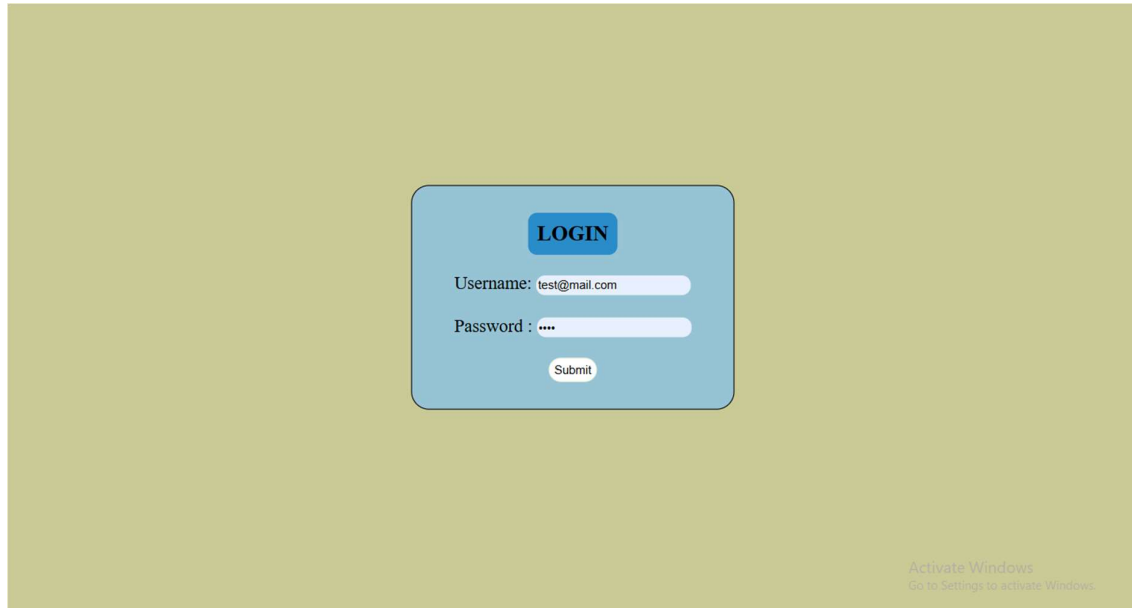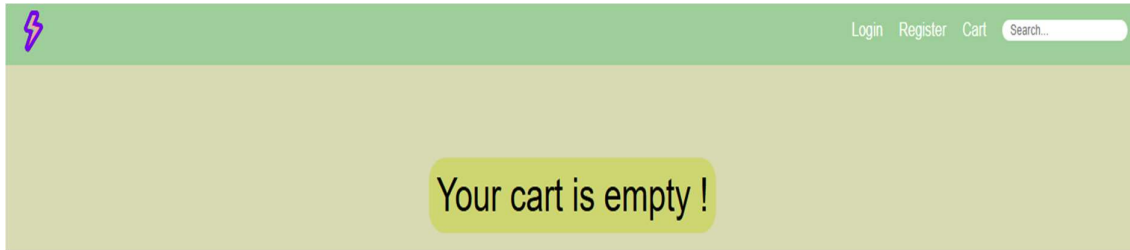
```
  </body>

</html>
```

CART.CSS

```css
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background-color: #d7dab0;
  display: flex;
  flex-direction: column;
  height: 100vh;
}
.navbar {
  display: flex;
  justify-content: space-between;
  align-items: center;
  padding: 10px 20px;
  background-color: #9dcf98;
  color: white;
}
.left {
  display: flex;
  gap: 20px;
}
.nav-link {
  text-decoration: none;
  color: white;
  font-size: 16px;
  transition: transform 0.6s ease;
}
.nav-link:hover {
```

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```
  transform: scale(1.125);

}
```

Your cart is empty !

Week 2: Make the above web application responsive web application using Bootstrap framework.

LOGIN.HTML

```html
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <title>Document</title>

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

    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
crossorigin="anonymous">

  </head>

  <body class="bg-info-subtle ">

  <video id="background-video" autoplay loop muted >

    <source src="https://videos.pexels.com/video-files/1409899/1409899-
uhd_2560_1440_25fps.mp4" type="video/mp4">

  </video>

    <form class="bg-light-subtle p-5 rounded" action="./catalog.html"
style="width: 500px;">

      <div class="bg-warning-subtle rounded d-flex justify-content-center mb-3
fs-3 fw-semibold">LOGIN</div>

      <div class="mb-3 ">

        <label for="email" class="form-label">Email address</label>
```

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```html
        <input type="email" class="form-control" id="exampleInputEmail1" aria-
describedby="emailHelp">

    </div>

    <div class="mb-3">

        <label for="exampleInputPassword1" class="form-label">Password</label>

        <input type="password" class="form-control mb-3"
id="exampleInputPassword1">

    </div>

    <button type="submit" class="btn btn-outline-primary mt-3
justif" >Submit</button>

  </form>

 </body>

</html>
```

LOGIN.CSS

```css
body {

  background-color: #c5c5a1;

  display: flex;

  justify-content: center;

  align-items: center;

  height: 100vh;

  margin: 0;

  position: relative; /* Position body to use the video as background */

  overflow: hidden;

}
```

```css
#background-video {

  position: absolute; /* Position the video behind the form */

  top: 0;

  left: 0;

  width: 100%;

  height: 100%;

  object-fit: cover; /* Make the video cover the entire screen */

  z-index: -1; /* Ensure video stays behind the form */

}


form {

  position: relative;

  transition: transform 0.6s ease;

  z-index: 1; /* Ensure the form is above the video */

}


form:hover {

  transform: scale(1.1);

  border: 1px solid lightblue;

}
```

CATALOG.HTML

```html
<!DOCTYPE html>

<html lang="en">

  <head>

    <meta charset="UTF-8" />

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

    <title>Document</title>

    <!-- Add Bootstrap CSS -->

    <link

      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
```

```html
      rel="stylesheet"
      integrity="sha384-
QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
      crossorigin="anonymous"
    />
    <link rel="stylesheet" href="catalog.css" />
  </head>
  <body class="font-monospace">
    <!-- Navbar -->
    <nav class="navbar navbar-expand-lg bg-body-info font-monospace">
      <div class="container-fluid">
        <a href="./login.html" class="navbar-brand">
          <img
            src="https://www.svgrepo.com/show/508319/thunder.svg"
            alt="Logo"
            class="logo"
          /></a>
        <div class="collapse navbar-collapse" id="navbarSupportedContent">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0">
            <li class="nav-item">
              <a class="nav-linki nav-link active"
href="./login.html">Login</a>
            </li>
            <li class="nav-item">
              <a class="nav-link nav-linki active" href="./regist.html"
                >Register</a
              >
            </li>
            <li class="nav-item">
```

```html
              <a class="nav-linki nav-link active" href="./cart.html">Cart</a>
          </li>
        </ul>
        <form class="d-flex" role="search">
          <input
            class="form-control me-2"
            type="search"
            placeholder="Search"
            aria-label="Search"
          />
          <button class="btn btn-outline-light"
type="submit">Search</button>
        </form>
      </div>
    </div>
  </nav>


  <!-- Card Section -->
  <div class="container mt-4">
    <div class="row row-cols-1 row-cols-md-3 g-4">
      <div class="col">
        <div class="card h-100">
          <div class="d-flex justify-content-center">
            <img
              src="https://cdn.tmobile.com/content/dam/t-mobile/en-p/cell-
phones/apple/Apple-iPhone-16-Pro/Desert-Titanium/Apple-iPhone-16-Pro-Desert-
Titanium-thumbnail.png"
              alt=""
              class="card-img-top"
            />
          </div>
          <div class="card-body text-center">
```

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```html
        <p class="card-text">iPhone 16 Series</p>

        <button class="btn btn-success">Add to cart</button>

      </div>

    </div>

  </div>


  <div class="col">

    <div class="card h-100">

      <div class="d-flex justify-content-center">

        <img

          src="https://cdn.tmobile.com/content/dam/t-mobile/en-p/cell-
phones/apple/Apple-iPhone-16-Pro/Desert-Titanium/Apple-iPhone-16-Pro-Desert-
Titanium-thumbnail.png"

          alt=""

          class="card-img-top"

        />

      </div>

      <div class="card-body text-center">

        <p class="card-text">iPhone 16 Series</p>

        <button class="btn btn-success">Add to cart</button>

      </div>

    </div>

  </div>


  <div class="col">

    <div class="card h-100">

      <div class="d-flex justify-content-center">

        <img
```

```html
            src="https://cdn.tmobile.com/content/dam/t-mobile/en-p/cell-
phones/apple/Apple-iPhone-16-Pro/Desert-Titanium/Apple-iPhone-16-Pro-Desert-
Titanium-thumbnail.png"
              alt=""
              class="card-img-top"
            />
          </div>
          <div class="card-body text-center">
            <p class="card-text">iPhone 16 Series</p>
            <button class="btn btn-success">Add to cart</button>
          </div>
        </div>
      </div>
    </div>


    <!-- Add Bootstrap JS -->
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js
"></script>
    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-
alpha1/dist/js/bootstrap.min.js"></script>
  </body>
</html>
```

CART.HTML

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <link
```

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```html
      href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
      rel="stylesheet"
      integrity="sha384-QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6hW+ALEwIH"
      crossorigin="anonymous"
    />
    <link rel="stylesheet" href="cart.css" />
  </head>
  <body class="font-monospace">
    <nav class="navbar navbar-expand-lg bg-body-info font-monospace">
      <div class="container-fluid">
        <a href="./login.html" class="navbar-brand">
          <img
            src="https://www.svgrepo.com/show/508319/thunder.svg"
            alt="Logo"
            class="logo"
          /></a>
        <div class="collapse navbar-collapse" id="navbarSupportedContent">
          <ul class="navbar-nav me-auto mb-2 mb-lg-0  ">
            <li class="nav-item">
              <a class="nav-linki nav-link " href="./login.html">Login</a>
            </li>
            <li class="nav-item">
              <a class="nav-link nav-linki " href="./regist.html"
                >Register</a
              >
            </li>
            <li class="nav-item">
```

```html
              <a class="nav-linki nav-link " href="./cart.html">Cart</a>
            </li>
          </ul>
          <form class="d-flex" role="search">
            <input
              class="form-control me-2"
              type="search"
              placeholder="Search"
              aria-label="Search"
            />
            <button class="btn btn-outline-light"
type="submit">Search</button>
          </form>
        </div>
      </div>
    </nav>


    <div class="cart d-flex justify-content-center">
      <video id="background-video" autoplay loop muted >
      <source src="https://videos.pexels.com/video-files/1580455/1580455-
hd_1920_1080_30fps.mp4" type="video/mp4">
      </video>
      <p>Your cart is empty !</p>
    </div>
  </body>
</html>
```

CART.CSS

```css
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  background-color: #d7dab0;
```

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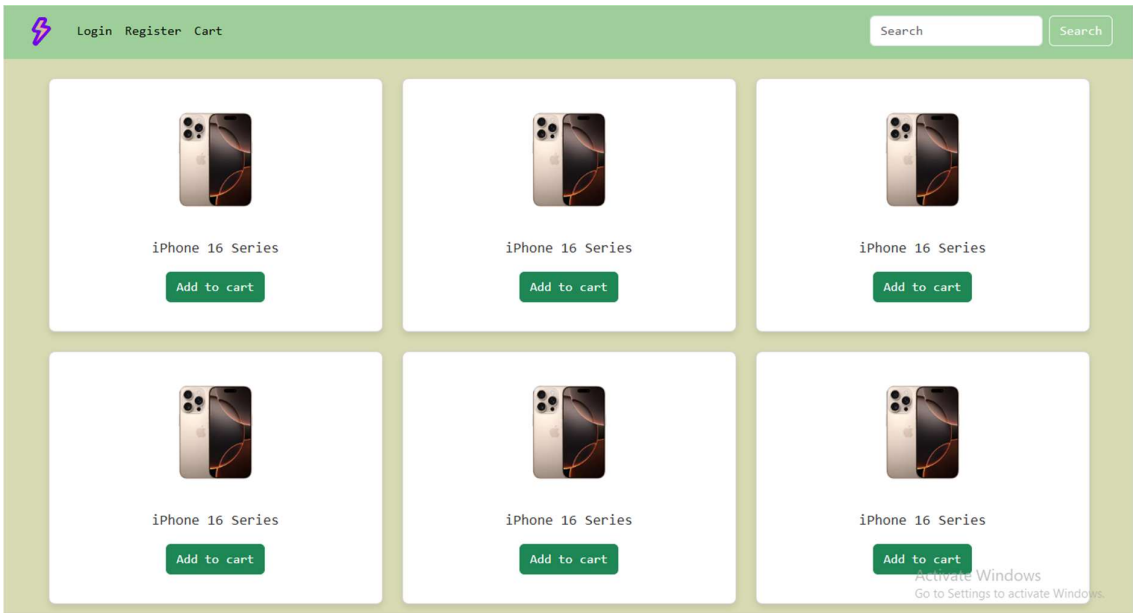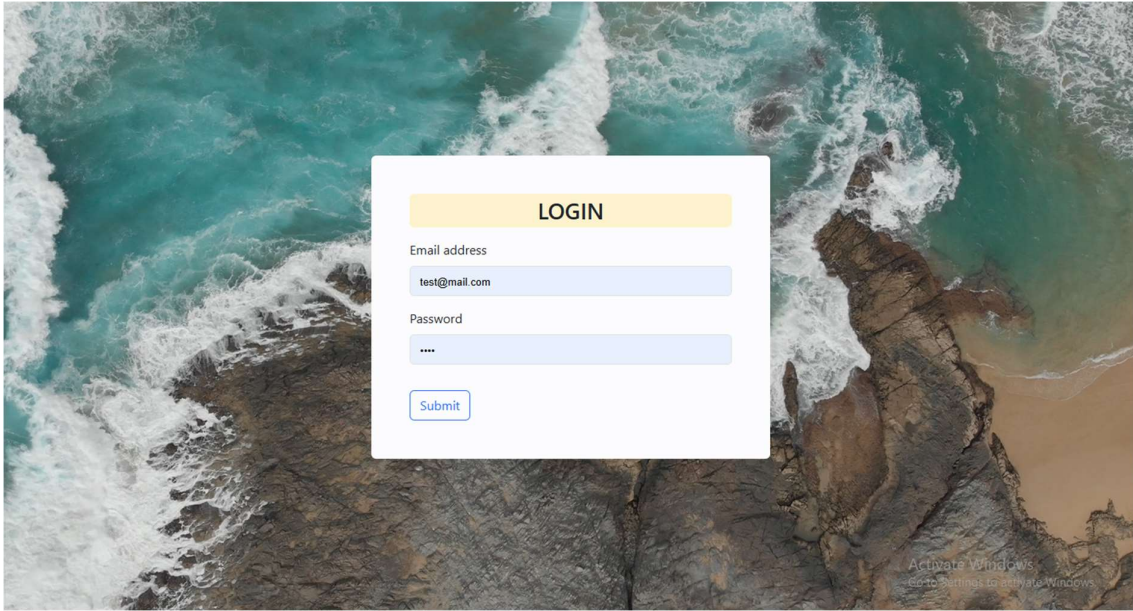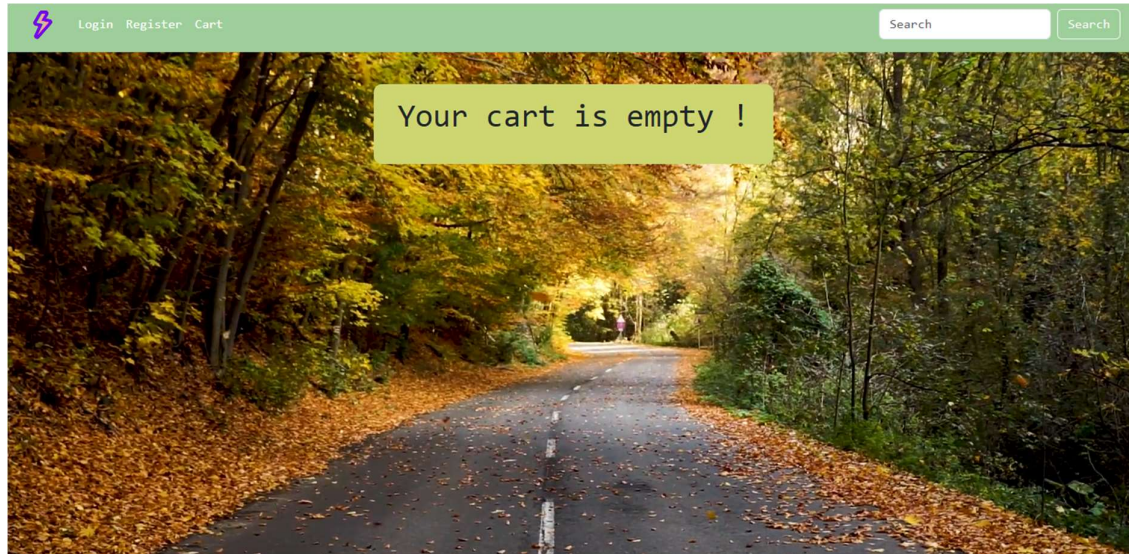Experiment No:

```css
  display: flex;

  flex-direction: column;

  height: 100vh;

}


.navbar {

  display: flex;

  justify-content: space-between;

  align-items: center;

  padding: 10px 20px;

  background-color: #9dcf98;

  color: white;

}


.left {

  display: flex;

  gap: 20px;

}


.nav-link {

  text-decoration: none;

  color: white;

  font-size: 16px;

  transition: transform 0.6s ease;

}
```

LOGIN

Email address

test@mail.com

Password

····

Submit

Login Register Cart

Search

Search

iPhone 16 Series

Add to cart

iPhone 16 Series

Add to cart

iPhone 16 Series

Add to cart

iPhone 16 Series

Add to cart

iPhone 16 Series

Add to cart

iPhone 16 Series

Add to cart

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Week 3: Use JavaScript for doing client – side validation of the pages implemented in experiment 1 and experiment 2.

LOGIN.JS

```javascript
document.addEventListener("DOMContentLoaded", function () {

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


    form.addEventListener("submit", function (event) {

        event.preventDefault();

        let isLogin = false;
```

```javascript
        const email = document.getElementById("exampleInputEmail1").value;

        const password =
document.getElementById("exampleInputPassword1").value;

        const storedUser = JSON.parse(localStorage.getItem("user"));

        console.log(email, password, storedUser)


        if (storedUser && storedUser.email === email && storedUser.password
=== password) {

            alert("Login successful!");

            localStorage.setItem("loggedInUser", JSON.stringify(storedUser));

            isLogin = true

            localStorage.setItem("isloginned",JSON.stringify(isLogin) )

            window.location.href = "catalog.html";

        } else {

            alert("Invalid email or password.");

        }

    });

});
```

CART.JS

```javascript
document.addEventListener("DOMContentLoaded", function () {

    const addToCartButtons = document.querySelectorAll(".btn-success");

    addToCartButtons.forEach(button => {

        button.addEventListener("click", function () {

            const productName = this.parentElement.querySelector(".card-
text").innerText;

            let cart = JSON.parse(localStorage.getItem("cart")) || [];


            cart.push({ productName });

            localStorage.setItem("cart", JSON.stringify(cart));

            alert(`${productName} added to cart!`);

        });
```

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```
    });
});
```

SEARCH.JS

```javascript
document.addEventListener("DOMContentLoaded", function () {

    const searchInput = document.querySelector(".form-control");

    const productCards = document.querySelectorAll(".card");


    searchInput.addEventListener("input", function () {

        const searchValue = searchInput.value.toLowerCase();

        console.log(searchValue)


        productCards.forEach(card => {

            const productName = card.querySelector(".card-
text").innerText.toLowerCase();

            card.style.display = productName.includes(searchValue) ? "block" :
"none";

        });

    });
});
```

CART-DISPLAY.JS

```javascript
function renderCart() {

    const cartContainer = document.querySelector(".cart p");

    const cart = JSON.parse(localStorage.getItem("cart")) || [];

    if (cart.length > 0) {

      cartContainer.innerHTML =

        "Your Cart Items:<br>" +

        cart
```

```javascript
          .map(
            (item, index) => `
        <div class="cart-item" style="margin: 10px 0;">
          <span>- ${item.productName}</span>
          <button class="btn btn-outline-danger"
onclick="deleteCartItem(${index})" style="margin-left: 10px;">Delete</button>
        </div>
      `
          )
          .join("");
    } else {
      cartContainer.innerText = "Your cart is empty!";
    }
  }


  function deleteCartItem(index) {
    const cart = JSON.parse(localStorage.getItem("cart")) || [];
    cart.splice(index, 1);
    localStorage.setItem("cart", JSON.stringify(cart));
    renderCart();
}
  document.addEventListener("DOMContentLoaded", renderCart);
```

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localhost:5500 says
Login successful!

OK

LOGIN

Email address
test@mail.com

Password
....

Submit

Logout   Cart

localhost:5500 says
iPhone 15 Series added to cart!

OK

Search   Search

iPhone 16 Series
Add to cart

iPhone 15 Series
Add to cart

Microsoft Surface Book
Add to cart

Mac Mini
Add to cart

Mac Studio
Add to cart

AirPods Max
Add to cart

Logout   Cart

Search   Search

Your Cart Items:

- iPhone 15 Series   Delete

- Microsoft Surface Book   Delete

- Mac Mini   Delete

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