

VNR VJIET

Name of the Experiment:

Web Application for Shopping Cart

Name of the Laboratory:

Experiment No:

Web Application Development

Date:

Web Application Development

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

```
<!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

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

```

<!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="catalog.css" />
  </head>
  <body>
    <nav class="navbar">
      <div class="right">
        <a href="./login.html">
          </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">

```

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```
<div class="card-container">
  <div class="card">
    
    <p>iPhone 16 Series</p>
    <button>Add to cart</button>
  </div>
  <div class="card">
    
    <p>iPhone 16 Series</p>
    <button>Add to cart</button>
  </div>
  <div class="card">
    
    <p>iPhone 16 Series</p>
    <button>Add to cart</button>
  </div>
</div>
</body>
</html>
```

CART.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">
        </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

```

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;
}

```

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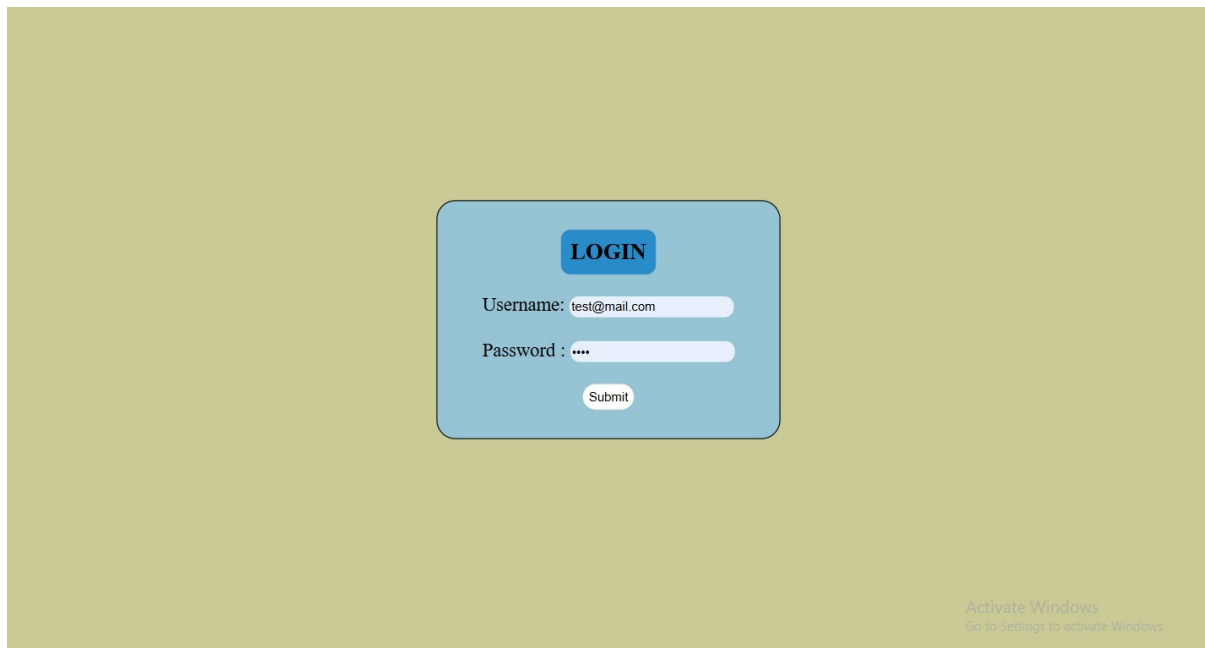
Experiment No:

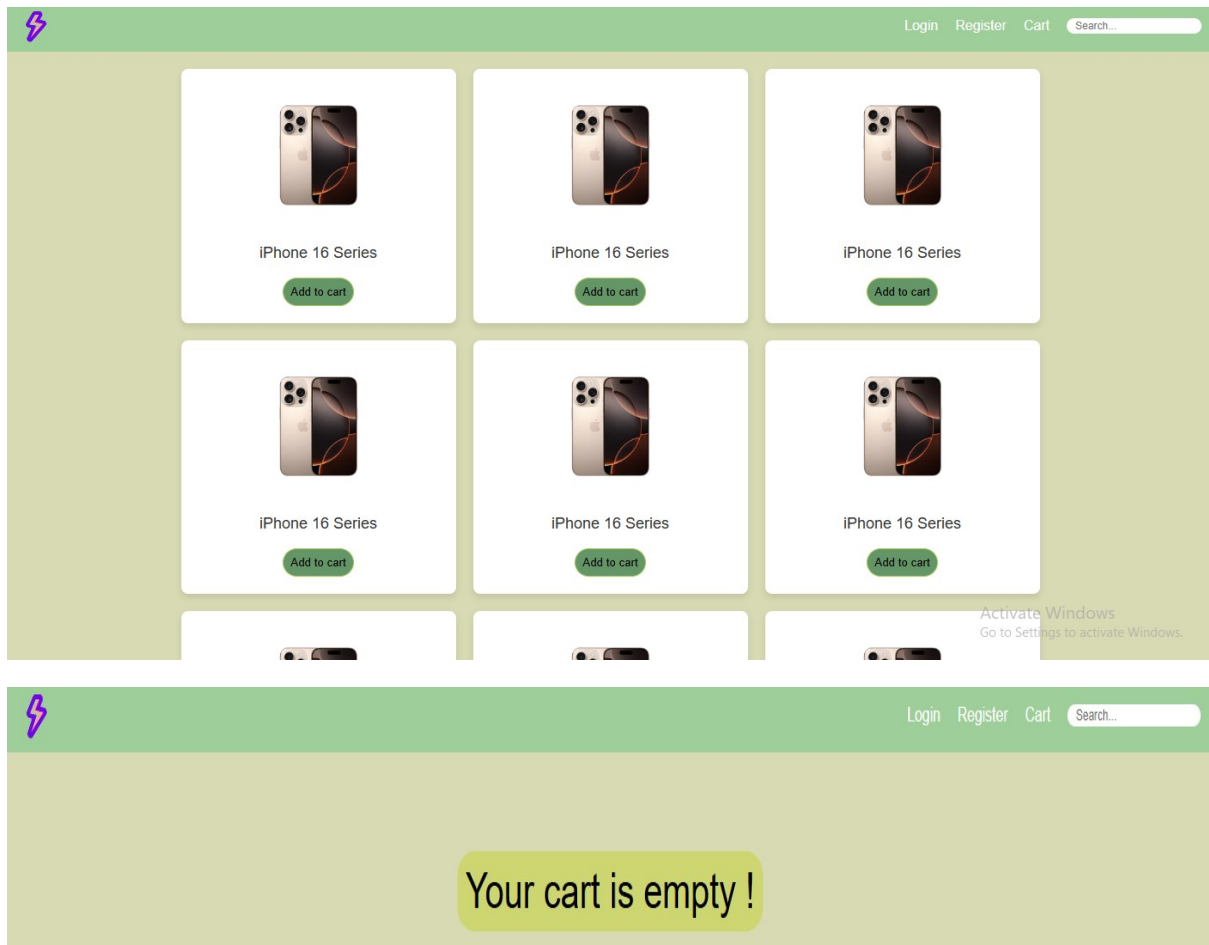
Web Application Development

Date:

Web Application Development

```
.left {  
  display: flex;  
  gap: 20px;  
}  
.nav-link {  
  text-decoration: none;  
  color: white;  
  font-size: 16px;  
  transition: transform 0.6s ease;  
}  
.nav-link:hover {  
  transform: scale(1.125);  
}
```





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

LOGIN.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-
QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+ALEwIH"
crossorigin="anonymous">
  </head>
  <body class="bg-info-subtle ">
    <video id="background-video" autoplay loop muted >
```

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```
<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>
    <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

```
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;
}
#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

```

<!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"
      rel="stylesheet"
      integrity="sha384-
QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+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">
          </a>

```


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```
<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">
      <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">
          
        </div>
      </div>
    </div>
  </div>
</div>
```

```

        />
    </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">
            
        </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">
            
        </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 -->

```

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```
<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

```
<!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
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.mi
n.css"
rel="stylesheet"
integrity="sha384-
QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhY6hW+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">
</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">
    <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

```

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;

```

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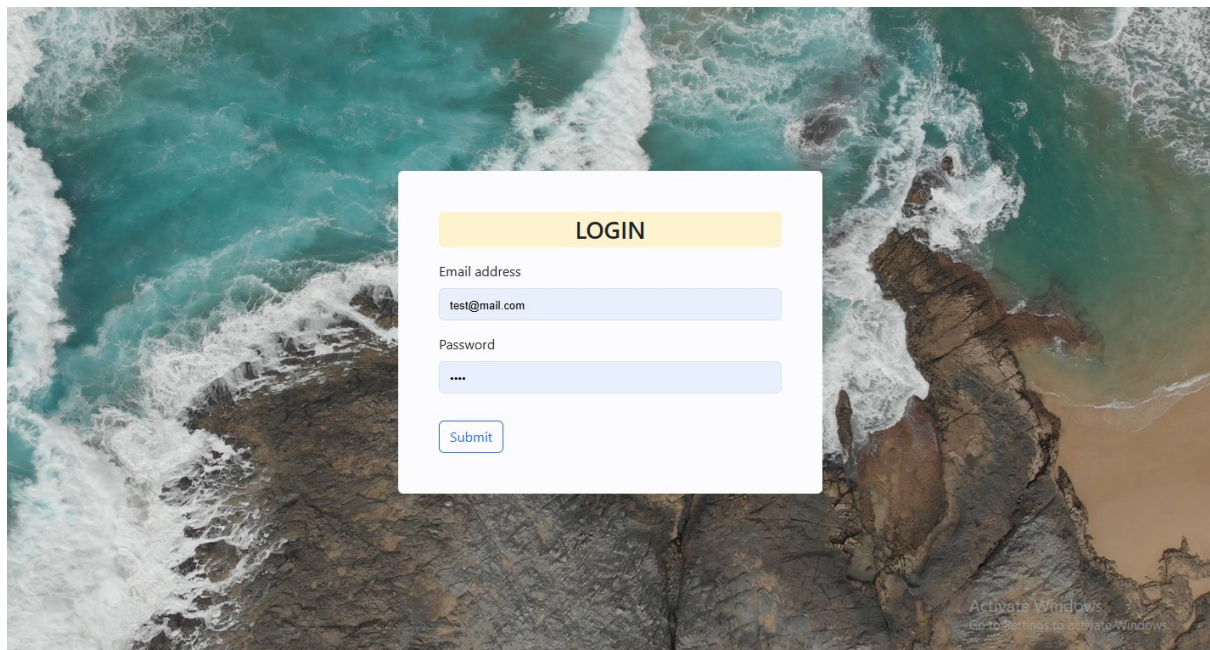
Date:

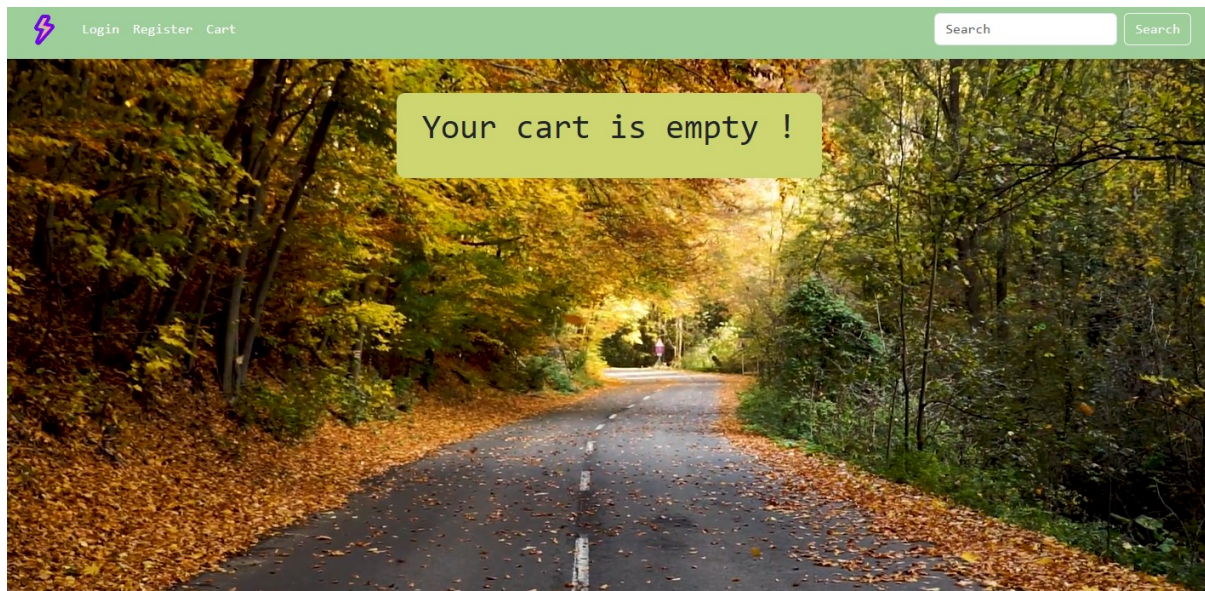
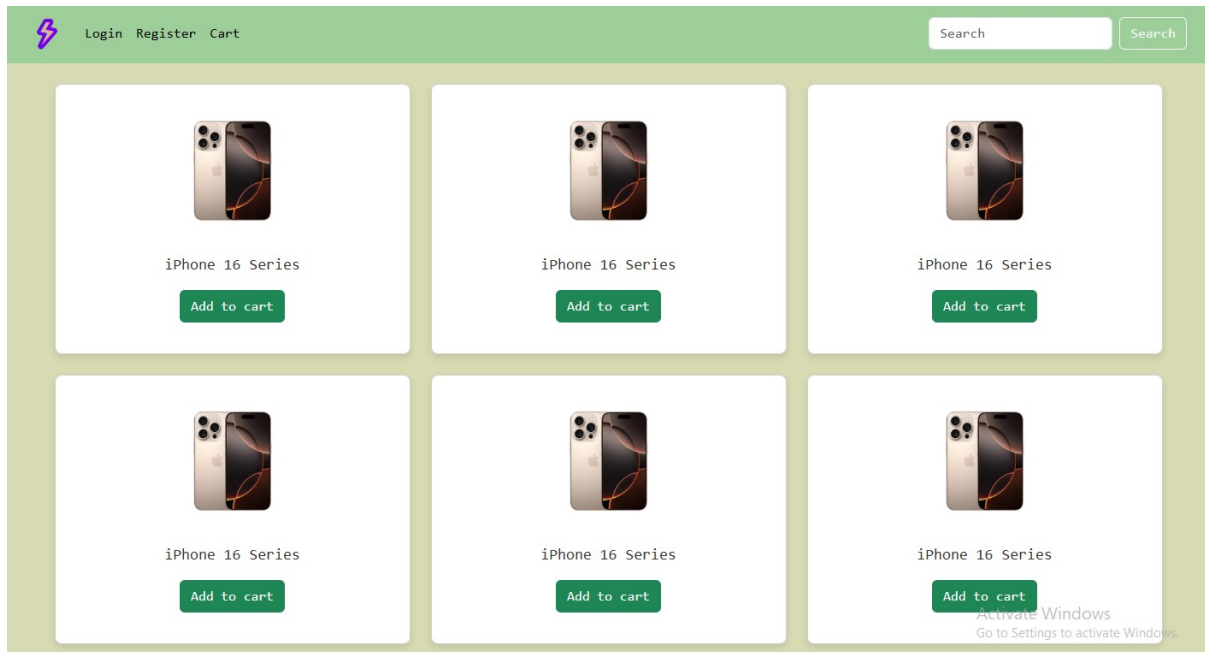
Web Application Development

```
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;
}
```





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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

```
document.addEventListener("DOMContentLoaded", function () {
    const form = document.querySelector("form");

    form.addEventListener("submit", function (event) {
        event.preventDefault();
        let isLogin = false;

        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

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

```

SEARCH.JS

```

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

```

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
                .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>

```


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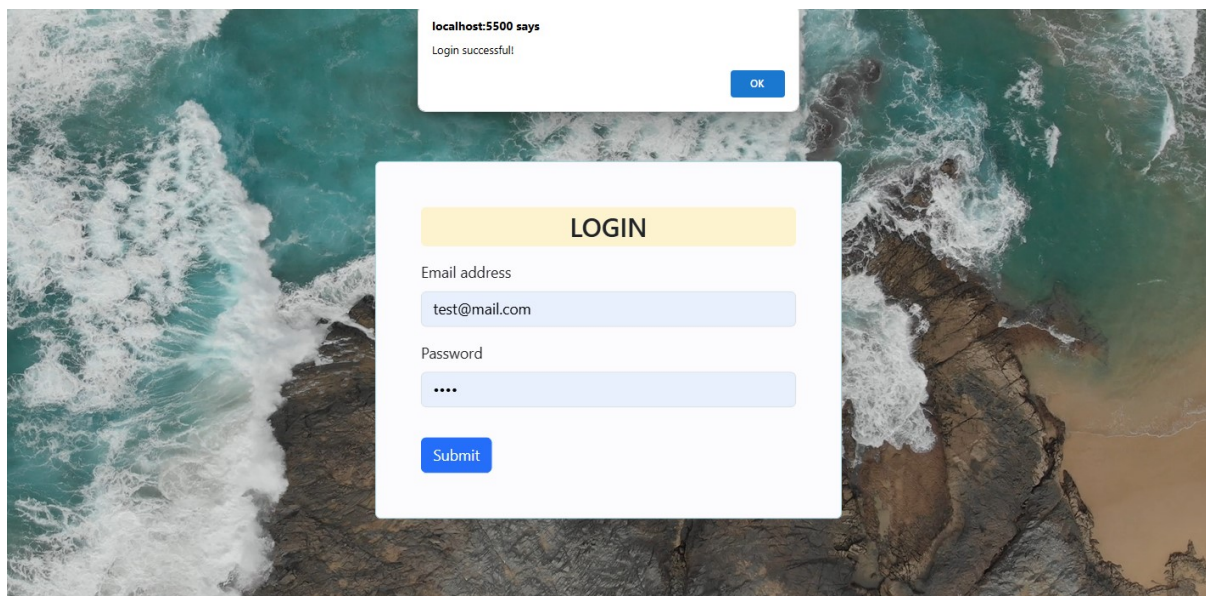
Date:

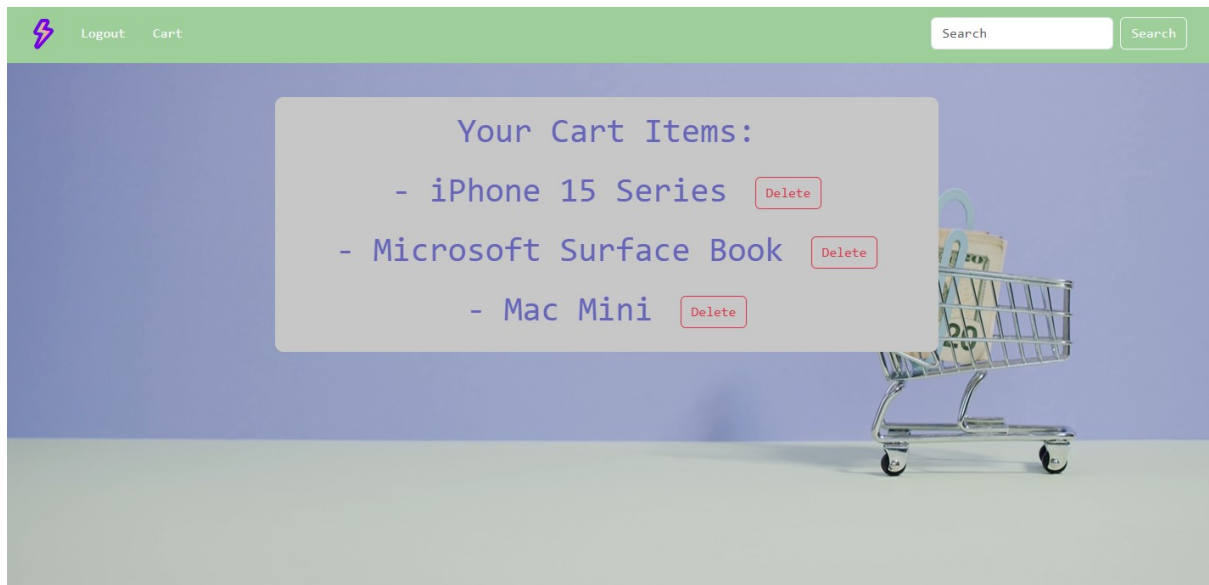
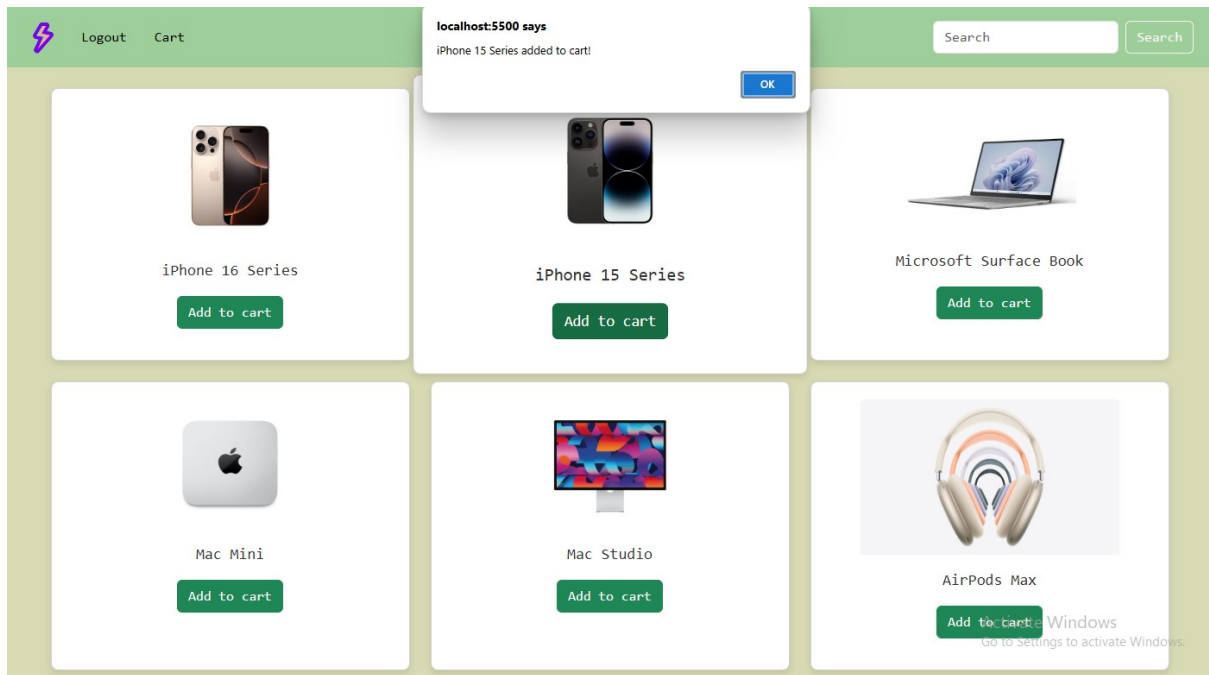
Web Application Development

```
        )
        .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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