

Case Study: Product Management System (PMS)

1. Project Overview

Objective:

Build a web-based Product Management System where an admin can manage products (CRUD operations) and users can browse products, add them to cart, and checkout.

Technology Stack:

- Frontend: HTML5, CSS3, Bootstrap 5
- Backend: JSON Server or any REST API simulation
- Storage: LocalStorage for logged-in session
- Optional: Images for product catalog

User Roles: 1. Admin – Can manage products

2. User – Can browse products, add to cart, checkout

2. Pages and Features

A. Welcome Page

- Purpose: Landing page for PMS
- Features:
 - Welcome message and brand/logo
 - Buttons to Login and Signup

Programs:

Index.html:

```
<!DOCTYPE html>
```

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

```
<head>
```

```
  <meta charset="UTF-8">
```

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

```
  <title>Product Management System</title>
```

```
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap-icons/font/bootstrap-icons.css"
rel="stylesheet">
```

```
</head>
```

```
<body>
```

```
<nav class="navbar navbar-expand-lg navbar-dark bg-dark">
```

```
<div class="container-fluid">
```

```
<a class="navbar-brand" href="#">Product Management</a>
```

```
<div class="d-flex">
```

```
<a class="btn btn-success me-2" href="login.html">Login</a>
```

```
<a class="btn btn-primary" href="signup.html">Signup</a>
```

```
</div>
```

```
</div>
```

```
</nav>
```

```
<div class="container text-center mt-5">
```

```
<h2>Welcome to Product Management System!</h2>
```

```
<p>Please Login or Signup to continue.</p>
```

```
<a class="btn btn-success mt-3" href="login.html">Login</a>
```

```
<a class="btn btn-primary mt-3 mx-2" href="signup.html">Signup</a>
```

```
</div>
```

```
<footer class="bg-dark text-white text-center mt-5 p-3">
```

```
<p>Follow us on
```

```
<a href="#" class="text-info mx-2"><i class="bi bi-facebook"></i></a>
```

```
<a href="#" class="text-info mx-2"><i class="bi bi-twitter"></i></a>
```

```
<a href="#" class="text-info mx-2"><i class="bi bi-linkedin"></i></a>
```

```
        <a href="#" class="text-info mx-2"><i class="bi bi-instagram"></i></a>
    </p>
    <p>&copy; 2025 Product Management System. All Rights Reserved.</p>
</footer>
</body>
</html>
```

Signup.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
    <title>Signup Page</title>
</head>
<body>
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
        <div class="container-fluid">
            <a class="navbar-brand" href="index.html">Product Management System</a>
            <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNav">
                <span class="navbar-toggler-icon"></span>
            </button>

            <div class="collapse navbar-collapse" id="navbarNav">
                <ul class="navbar-nav ms-auto">
```

```
<li class="nav-item">
  <a id="loginLink" class="nav-link" href="login.html">Login</a>
</li>
<li class="nav-item">
  <a id="singupLink" class="nav-link" href="signup.html">Signup</a>
</li>
<li class="nav-item">
  <a id="logoutLink" class="nav-link" href="#" onclick="logout()">Login</a>
</li>
</ul>
</div>
</div>
</nav>
```

```
<div class="container mt-5">
  <h2>Signup</h2>
  <input type="text" id="name" placeholder="Full Name" class="form-control mb-2"
required>
  <input type="email" id="email" placeholder="Email" class="form-control mb-2"
required>
  <input type="password" id="password" placeholder="Password" class="form-control
mb-2" required>

  <select id="role" class="form-control mb-3" required>
    <option value="user">User</option>
    <option value="admin">Admin</option>
  </select>

  <button class="btn btn-primary" onclick="signup()">Signup</button>
```

</div>

<script>

```
function signup() {  
let name = document.getElementById("name").value.trim();  
let email = document.getElementById("email").value.trim();  
let password = document.getElementById("password").value.trim();  
let role = document.getElementById("role").value;  
  
if (!name || !email || !password || !role) {  
    alert("All fields are required!");  
    return;  
}  
  
// First check if user already exists  
fetch(`http://localhost:3000/users?email=${encodeURIComponent(email)}`)  
    .then(res => res.json())  
    .then(usersFromServer => {  
        if (usersFromServer.length > 0) {  
            alert("User already exists!");  
            return;  
        }  
  
        // Create new user in db.json  
        fetch("http://localhost:3000/users", {  
            method: "POST",  
            headers: { "Content-Type": "application/json" },  
            body: JSON.stringify({ name, email, password, role })
```

```

    })
    .then(res => res.json())
    .then(data => {
        alert("Signup Successful! Please login.");
        window.location.href = "login.html";
    })
    .catch(err => {
        console.error("Error:", err);
        alert("Signup failed. Please try again.");
    });
})
.catch(err => {
    console.error("Error:", err);
    alert("Something went wrong. Try again later.");
});
}

```

```

function logout(){
    alert("You have been logged out.")
    window.location.href="index.html"
}

```

</script>

```

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/js/bootstrap.bundle.min.js"></scrip
t>

</body>

</html>

```

Login.html:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Login</title>

  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">

</head>

<body class="bg-light">

  <div class="container mt-5">

    <h2 class="text-center mb-4">Login</h2>

    <form id="loginForm" class="mx-auto" style="max-width: 400px;">

      <div class="mb-3">

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

        <input type="email" id="email" class="form-control" placeholder="Enter email"
required>

      </div>

      <div class="mb-3">

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

        <input type="password" id="password" class="form-control" placeholder="Enter
password" required>

      </div>

      <button type="submit" class="btn btn-primary w-100">Login</button>

    </form>
```

```
<p class="text-center mt-3">  
  Don't have an account? <a href="signup.html">Sign up</a>  
</p>  
</div>
```

```
<script>  
  
document.getElementById("loginForm").addEventListener("submit", function (e) {  
  e.preventDefault();  
  
  let email = document.getElementById("email").value.trim();  
  let password = document.getElementById("password").value.trim();  
  
  fetch(`http://localhost:3000/users?email=${email}&password=${password}`)  
    .then(res => res.json())  
    .then(users => {  
      if (users.length > 0) {  
        let user = users[0];  
  
        // Save user details in localStorage  
        localStorage.setItem("loggedInUser", JSON.stringify(user));  
  
        alert("Login successful!");  
  
        // Redirect based on role  
        if (user.role === "admin") {  
          window.location.href = "admin-dashboard.html";  
        } else {
```



```

        window.location.href = "user-dashboard.html";
    }
} else {
    alert("Invalid email or password!");
}
})
.catch(err => {
    console.error("Error:", err);
    alert("Something went wrong. Please try again.");
});
});
</script>
</body>
</html>

```

User-dashboard.html:

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>User Dashboard</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body>
    <!-- Navbar -->
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">

```

```
<div class="container-fluid">

  <a class="navbar-brand" href="#">Products Portal</a>

  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav">

    <span class="navbar-toggler-icon"></span>

  </button>

  <div class="collapse navbar-collapse" id="navbarNav">

    <ul class="navbar-nav ms-auto">

      <li class="nav-item">

        <a class="nav-link active" href="#">Products List</a>

      </li>

      <li class="nav-item">

        <a class="nav-link" href="#" id="cartLink">Cart (<span id="cartCount">0</span>)</a>

      </li>

      <li class="nav-item">

        <a class="nav-link" href="checkout.html">Checkout</a>

      </li>

      <li class="nav-item">

        <a class="nav-link text-danger" href="#" onclick="logout()">Logout</a>

      </li>

    </ul>

  </div>

</div>

</nav>
```

```
<div class="container mt-4">

  <h2 class="mb-4">All Products</h2>
```

```
<div class="row" id="productList">
```

```
</div>
```

```
</div>
```

```
<script>
```

```
const API_URL = "http://localhost:3000/products";
```

```
const CART_API_URL = "http://localhost:3000/cart";
```

```
function loadProducts() {
```

```
  fetch(API_URL)
```

```
    .then(res => res.json())
```

```
    .then(products => {
```

```
      const productList = document.getElementById("productList");
```

```
      productList.innerHTML = "";
```

```
      if (products.length === 0) {
```

```
        productList.innerHTML = "<p>No Products available.</p>";
```

```
        return;
```

```
      }
```

```
      products.forEach(product => {
```

```
        const card = `
```

```
        <div class="col-md-4 mb-3">
```

```
        <div class="card h-100">
```

```
          
```

```

    <div class="card-body">

      <h5 class="card-title">${product.title}</h5>

      <p class="card-text">${product.description}</p>

      <p><strong>Price: </strong>${product.price}</p>

      <button class="btn btn-primary" onclick="addToCart(${product.id},
'${product.title}', ${product.price})">Add to Cart</button>

    </div>

  </div>

</div>

`;

productList.innerHTML += card;

});

})

.catch(err => console.error("Error loading products:", err));
}

```

```

function addToCart(id, title, price) {

```

```

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

  let existingItem = cart.find(item => item.id === id);

  if (existingItem) {
    existingItem.quantity += 1;
  } else {
    cart.push({ id, title, price, quantity: 1 });
  }

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

  updateCartCount();

```

```
fetch(CART_API_URL, {
  method: "POST",
  headers: { "Content-Type": "application/json" },
  body: JSON.stringify({ id, title, price, quantity: 1 })
})
.then(res => res.json())
.then(data => console.log("Cart item stored on server:", data))
.catch(err => console.error("Failed to store cart on server:", err));
}
```

```
function updateCartCount() {
  let cart = JSON.parse(localStorage.getItem("cart")) || [];
  let totalCount = cart.reduce((sum, item) => sum + item.quantity, 0);
  document.getElementById("cartCount").innerText = totalCount;
}
```

```
function logout() {
  localStorage.removeItem("loggedInUser");
  window.location.href = "login.html";
}
```

```
window.onload = () => {
  const user = JSON.parse(localStorage.getItem("loggedInUser"));
  if (!user || user.role !== "user") {
    alert("Unauthorized! Please login as a user.");
    window.location.href = "login.html";
  }
}
```

```
    loadProducts();  
    updateCartCount();  
};  
</script>
```

```
<script  
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></scrip  
t>  
</body>  
</html>
```

Admin-dashboard.html:

```
<!DOCTYPE html>  
<html lang="en">  
<head>  
  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
  <title>Admin Dashboard</title>  
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css"  
rel="stylesheet">  
</head>  
<body>  
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">  
    <div class="container-fluid">  
      <a class="navbar-brand" href="#">Admin Dashboard</a>  
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-  
target="#navbarNav">  
        <span class="navbar-toggler-icon"></span>
```

```
</button>

<div class="collapse navbar-collapse" id="navbarNav">
  <ul class="navbar-nav ms-auto">
    <li class="nav-item">
      <a class="nav-link" href="add-product.html">Add Product</a>
    </li>
    <li class="nav-item">
      <a class="nav-link active" aria-current="page" href="#">Product List</a>
    </li>
    <li class="nav-item">
      <a class="nav-link text-danger" href="#" onclick="logout()">Logout</a>
    </li>
  </ul>
</div>
</div>
</nav>
```

```
<div class="container mt-4">
  <h2 class="mb-4">All Products</h2>
  <div class="row" id="productList">

  </div>
</div>
```

```
<script>
const API_URL = "http://localhost:3000/products";
function loadProducts(){
  fetch(API_URL)
```

```

.then(res=>res.json())
.then(products => {
    let productList = document.getElementById("productList");
    productList.innerHTML = ""
    if(products.length === 0){
        productList.innerHTML = "<p>No Products available.</p>";
        return;
    }
    products.forEach(product => {
        let card = `
        <div class="col-md-4 mb-3">
            <div class="card h-100">
                
            <div class="card-body">
                <h5 class="card-title">${product.title}</h5>
                <p class="card-text">${product.description}</p>
                <p><strong>Price: </strong>${product.price}</p>
                <div class="d-flex justify-content-between">
                    <button class="btn btn-warning btn-sm"
onclick="editProduct(${product.id})">Edit</button>
                    <button class="btn btn-danger btn-sm"
onclick="deleteProduct(${product.id})">Delete</button>
                </div>
            </div>
        </div>
        `
    }
})

```



```

        </div>

        `;

        productList.innerHTML += card;
    })
})

.catch(err => console.error("Error loading Products: ", err))
}

loadProducts();

function editProduct(id) {
    window.location.href = `edit-product.html?id=${id}`;
}

function deleteProduct(id) {
    if (confirm("Are you sure you want to delete this Product?")) {
        fetch(`${API_URL}/${id}`, { method: "DELETE" })
            .then(res => {
                if (res.ok) {
                    alert("Product deleted successfully!");
                    loadProducts(); // refresh list
                } else {
                    alert("Failed to delete Product.");
                }
            })
            .catch(err => console.error("Error deleting Product:", err));
    }
}

```

```
function logout(){
    localStorage.removeItem("loggedInUser")
    window.location.href="login.html"
}
</script>
</body>
</html>
```

Add-product.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Add Product</title>
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body class="bg-light">

    <!-- Navbar -->
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
        <div class="container-fluid">
            <a class="navbar-brand" href="admin-dashboard.html">Admin Dashboard</a>
            <div class="d-flex">
                <a href="admin-dashboard.html" class="btn btn-outline-light me-2">Products</a>
                <a href="add-product.html" class="btn btn-outline-light me-2">Add Product</a>
```

```
    <button class="btn btn-danger" onclick="logout()">Logout</button>
  </div>
</div>
</nav>
```

```
<div class="container mt-5">
  <h2 class="mb-4">Add New Product</h2>
  <form id="productForm" enctype="multipart/form-data">
    <div class="mb-3">
      <label for="title" class="form-label">Product Title</label>
      <input type="text" class="form-control" id="title" required>
    </div>
```

```
    <div class="mb-3">
      <label for="description" class="form-label">Description</label>
      <textarea class="form-control" id="description" rows="3" required></textarea>
    </div>
```

```
    <div class="mb-3">
      <label for="price" class="form-label">Price ($)</label>
      <input type="number" class="form-control" id="price" required>
    </div>
```

```
    <div class="mb-3">
      <label for="image" class="form-label">Product Image</label>
      <input type="file" class="form-control" id="image" accept="image/*" required>
    </div>
```

```
    <button type="submit" class="btn btn-primary">Add Product</button>
  </form>
</div>
```

```
<script>

const API_URL = "http://localhost:3000/products";

document.getElementById("productForm").addEventListener("submit", function(e) {
  e.preventDefault();
```

```
  let title = document.getElementById("title").value;
  let description = document.getElementById("description").value;
  let price = document.getElementById("price").value;
  let imageInput = document.getElementById("image");
  let imagePath = "images/" + imageInput.files[0].name;
```

```
  fetch(API_URL)
    .then(res => res.json())
    .then(products => {
      let maxId = products.length > 0 ? Math.max(...products.map(p => Number(p.id))) : 0;

      let newProduct = {
        id: maxId + 1,
        title,
        description,
        price,
```

```

        image: imagePath
    };

    return fetch(API_URL, {
        method: "POST",
        headers: { "Content-Type": "application/json" },
        body: JSON.stringify(newProduct)
    });
})

.then(res => res.json())
.then(data => {
    alert("Product Added Successfully!");
    //window.location.href = "admin-dashboard.html";
    setTimeout(() => {
        window.location.href = "admin-dashboard.html";
    }, 1000);
})
.catch(err => console.error("Error:", err));
});

```

```

function logout() {
    localStorage.removeItem("loggedInUser");
    window.location.href = "login.html";
}

</script>
</body>

```

</html>

Checkout.html:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Checkout</title>

<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet">

</head>

<body>

<!-- Navbar -->

<nav class="navbar navbar-expand-lg navbar-dark bg-dark">

<div class="container-fluid">

Product Portal

<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">

</button>

<div class="collapse navbar-collapse" id="navbarNav">

<ul class="navbar-nav ms-auto">

<li class="nav-item">

Product List

<li class="nav-item">

Checkout

<li class="nav-item">

```
        <a class="nav-link text-danger" href="#" onclick="logout()">Logout</a>
    </li>
</ul>
</div>
</div>
</nav>
```

```
<div class="container mt-5">
    <h2 class="mb-4">Checkout</h2>
    <table class="table table-bordered">
        <thead class="table-dark">
            <tr>
                <th>Product Name</th>
                <th>Price ($)</th>
            </tr>
        </thead>
        <tbody id="checkoutBody">
            <!-- Cart items will be loaded here -->
        </tbody>
        <tfoot>
            <tr>
                <th>Total</th>
                <th id="totalPrice">$0</th>
            </tr>
        </tfoot>
    </table>
</div>
```

```
<script>
```

```
const CART_API_URL = "http://localhost:3000/cart";
```

```
function loadCart() {
```

```
  fetch(CART_API_URL)
```

```
    .then(res => res.json())
```

```
    .then(cart => {
```

```
      const tbody = document.getElementById("checkoutBody");
```

```
      tbody.innerHTML = "";
```

```
      let total = 0;
```

```
      if(cart.length === 0){
```

```
        tbody.innerHTML = '<tr><td colspan="2" class="text-center">No items in  
cart.</td></tr>';
```

```
        document.getElementById("totalPrice").innerText = "$0";
```

```
        return;
```

```
      }
```

```
      cart.forEach(item => {
```

```
        total += Number(item.price);
```

```
        const row = `
```

```
          <tr>
```

```
            <td>${item.title}</td>
```

```
            <td>${item.price}</td>
```

```
          </tr>
```

```
        `;
```

```
        tbody.innerHTML += row;
```

```
      });
```



```

        document.getElementById("totalPrice").innerText = `$$${total}`;
    })
    .catch(err => console.error("Error loading cart:", err));
}

```

```

function logout() {
    localStorage.removeItem("loggedInUser");
    window.location.href = "login.html";
}

```

```

window.onload = () => {
    const user = JSON.parse(localStorage.getItem("loggedInUser"));
    if(!user || user.role !== "user"){
        alert("Unauthorized! Please login as a user.");
        window.location.href = "login.html";
    }
    loadCart();
};

```

</script>

```

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/js/bootstrap.bundle.min.js"></scrip
t>

```

</body>

</html>

Db.json:

```

{

```

```
"users": [  
  {  
    "id": "1",  
    "name": "Charles",  
    "email": "charles@example.com",  
    "password": "charles123",  
    "role": "admin"  
  },  
  {  
    "id": "2",  
    "name": "John Doe",  
    "email": "john@example.com",  
    "password": "john123",  
    "role": "user"  
  },  
  {  
    "id": "6944",  
    "name": "swe",  
    "email": "swe@gmail.com",  
    "password": "swe",  
    "role": "user"  
  }  
],  
"products": [  
  {  
    "title": "Fresh Bread",  
    "description": "A delicious Fresh Bread",  
    "price": "3",
```

```
"image": "images/bread.png",
"id": "1"
},
{
  "title": "Fresh Straweberry",
  "description": "A delicious Fresh strawberry",
  "price": "50",
  "image": "images/strawberry.png",
  "id": "2"
},
{
  "title": "Fresh Apples",
  "description": "A delicious Fresh Apples",
  "price": "10",
  "image": "images/freshapple.png",
  "id": "3"
},
{
  "title": "Fresh Milk",
  "description": "A Fresh Milk With High Caramel",
  "price": "7",
  "image": "images/milk.png",
  "id": "4"
}
],
"cart": [
  {
    "id": 1,
```

```
"title": "Fresh Bread",  
"price": 3,  
"quantity": 1  
},  
{  
  "id": 2,  
  "title": "Fresh Straweberry",  
  "price": 50,  
  "quantity": 1  
},  
{  
  "id": 1,  
  "title": "Fresh Bread",  
  "price": 3,  
  "quantity": 1  
},  
{  
  "id": 2,  
  "title": "Fresh Straweberry",  
  "price": 50,  
  "quantity": 1  
},  
{  
  "id": 4,  
  "title": "Fresh Milk",  
  "price": 7,  
  "quantity": 1  
}
```

```
]
}
```

Edit-product.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>Edit product</title>
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.css"
rel="stylesheet">
</head>
<body class="bg-light">

  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <div class="container-fluid">
      <a class="navbar-brand" href="admin-dashboard.html">Admin Dashboard</a>
      <div class="d-flex">
        <a href="admin-dashboard.html" class="btn btn-outline-light me-2">products</a>
        <a href="add-product.html" class="btn btn-outline-light me-2">Add product</a>
        <button class="btn btn-danger" onclick="logout()">Logout</button>
      </div>
    </div>
  </nav>

  <div class="container mt-5">
```

```
<h2 class="mb-4">Edit product</h2>
```

```
<form id="editproductForm" enctype="multipart/form-data">
```

```
<div class="mb-3">
```

```
<label for="title" class="form-label">product Title</label>
```

```
<input type="text" class="form-control" id="title" required>
```

```
</div>
```

```
<div class="mb-3">
```

```
<label for="description" class="form-label">Description</label>
```

```
<textarea class="form-control" id="description" rows="3" required></textarea>
```

```
</div>
```

```
<div class="mb-3">
```

```
<label for="price" class="form-label">Price ($)</label>
```

```
<input type="number" class="form-control" id="price" required>
```

```
</div>
```

```
<div class="mb-3">
```

```
<label for="image" class="form-label">product Image</label>
```

```
<input type="file" class="form-control" id="image" accept="image/*">
```

```
<img id="currentImage" src="" alt="Current Image" class="mt-2" style="width:150px; height:auto;">
```

```
</div>
```

```
<button type="submit" class="btn btn-primary">Update product</button>
```

```
</form>
```

```
</div>
```

```
<script>

const API_URL = "http://localhost:3000/products";


const urlParams = new URLSearchParams(window.location.search);
const productId = urlParams.get('id');


if (!productId) {
  alert("No product ID provided!");
  window.location.href = "admin-dashboard.html";
}


// Fetch product data and populate form
fetch(`${API_URL}/${productId}`)
  .then(res => res.json())
  .then(product => {
    document.getElementById("title").value = product.title;
    document.getElementById("description").value = product.description;
    document.getElementById("price").value = product.price;
    document.getElementById("currentImage").src = product.image;
  })
  .catch(err => {
    console.error("Error fetching product:", err);
    alert("Failed to load product details.");
    window.location.href = "admin-dashboard.html";
  });


// Update product on form submit
```

```

document.getElementById("editproductForm").addEventListener("submit", function(e) {
    e.preventDefault();

    let title = document.getElementById("title").value;
    let description = document.getElementById("description").value;
    let price = document.getElementById("price").value;
    let imageInput = document.getElementById("image");

    let updatedproduct = {
        title,
        description,
        price,
        image: imageInput.files[0] ? "images/" + imageInput.files[0].name :
document.getElementById("currentImage").src
    };

    fetch(`${API_URL}/${productId}`, {
        method: "PUT",
        headers: { "Content-Type": "application/json" },
        body: JSON.stringify(updatedproduct)
    })
    .then(res => res.json())
    .then(data => {
        alert("product updated successfully!");
        //window.location.href = "admin-dashboard.html";
        setTimeout(() => {
            window.location.href = "admin-dashboard.html";
        }, 1000);
    });

```



```
    })  
    .catch(err => {  
      console.error("Error updating product:", err);  
      alert("Failed to update product.");  
    });  
  });
```

```
function logout() {  
  localStorage.removeItem("loggedInUser");  
  window.location.href = "login.html";  
}
```

```
</script>
```

```
</body>
```

```
</html>
```