

DASHBOARD

```
<!DOCTYPE html>
```

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

```
<head>
```

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

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

```
<title>Product Catalog Dashboard</title>
```

```
<style>
```

```
/* ===== GENERAL STYLES ===== */
```

```
* {
```

```
    box-sizing: border-box;
```

```
margin: 0; padding: 0; font-
```

```
family: 'Poppins', sans-serif;
```

```
}
```

```
body { display: flex;
```

```
background-color: #f5f6fa;
```

```
min-height: 100vh; color:
```

```
#2f3640;
```

```
}
```

```
/* ===== SIDEBAR ===== */
```

```
.sidebar { width: 240px;
```

```
background-color: #273c75;
```

```
color: white; height: 100vh;
```

```
position: fixed; left: 0;
```

```
top: 0; padding: 20px 0;
```

```
}
```

```
.sidebar h2 { text-
```

```
align: center; margin-
```

```
bottom: 30px; font-
```

```
size: 1.4em; color:
```

```
#00a8ff;
```

```
}
```

```
.sidebar ul { list-  
style: none;  
padding: 0;  
}
```

```
.sidebar ul li {  
padding: 15px 20px;  
cursor: pointer;  
transition: 0.3s;  
}
```

```
.sidebar ul li:hover { background-  
color: #40739e;  
}
```

```
.sidebar ul li a {  
color: white; text-  
decoration: none;  
display: block;  
}
```

```
/* ===== MAIN CONTENT ===== */
```

```
.main-content {  
margin-left: 240px;  
padding: 20px; flex: 1;  
}
```

```
.header { background-color: white;  
padding: 15px 20px; border-radius:  
10px; display: flex; justify-content:  
space-between; align-items: center;  
box-shadow: 0 2px 5px rgba(0,0,0,0.1);
```

```
}
```

```
.header h1 {  
color: #273c75;  
font-size: 1.5em;  
}
```

```
.header button {  
background-color: #00a8ff;  
color: white;    border: none;  
padding: 10px 20px;  
border-radius: 5px;  
cursor: pointer;    transition:  
0.3s;  
}
```

```
.header button:hover {    background-  
color: #0097e6;  
}
```

```
/* ===== DASHBOARD CARDS ===== */
```

```
.cards { display:  
grid;    grid-  
template-  
columns:  
repeat(auto-  
fit,  
minmax(220px  
, 1fr));    gap:  
20px;  
margin-top:  
20px;  
}
```

```
.card {    background-color: white;
border-radius: 10px;    padding: 20px;
text-align: center;    box-shadow: 0 2px
8px rgba(0,0,0,0.1);    transition: 0.3s;
}
```

```
.card:hover {    transform:
translateY(-5px);
}
```

```
.card h3 {    color:
#273c75;    margin-
bottom: 10px;
}
```

```
.card p {    font-
size: 1.2em;
color: #00a8ff;
font-weight: bold;
}
```

```
/* ===== PRODUCT TABLE ===== */
```

```
.table-section {    margin-
top: 30px;    background:
white; padding: 20px;
border-radius: 10px;    box-
shadow: 0 2px 8px
rgba(0,0,0,0.1);
}
```

```
table {    width: 100%;
border-collapse: collapse;
}
```

```
th, td { padding: 12px;
text-align: left; border-bottom:
1px solid #ddd;
}
th
{
background-color: #00a8ff;
color: white;
}
```

```
tr:hover { background-
color: #f1f2f6;
}
```

```
footer { text-
align: center;
margin-top: 30px;
color: #888; font-
size: 0.9em;
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<!-- ===== SIDEBAR ===== -->
```

```
<div class="sidebar">
```

```
<h2>Product Admin</h2>
```

```
<ul>
```

```
<li><a href="#">Dashboard</a></li>
```

```
<li><a href="#">Add Product</a></li>
```

```
<li><a href="#">Product List</a></li>
```

```
<li><a href="#">Orders</a></li>
```

```
<li><a href="#">Reports</a></li>
```

```
<li><a href="#">Logout</a></li>
```

```
</ul>
```

</div>

<!-- ===== MAIN CONTENT ===== -->

<div class="main-content">

<div class="header">

<h1>Dashboard Overview</h1>

<button>+ Add Product</button>

</div>

<div class="cards">

<div class="card">

<h3>Total Products</h3>

<p>120</p>

</div>

<div class="card">

<h3>Available Stock</h3>

<p>85</p>

</div>

<div class="card">

<h3>Orders</h3>

<p>35</p>

</div>

<div class="card">

<h3>Revenue</h3>

<p>₹1,24,500</p>

</div>

</div>

<div class="table-section">

<h2>Recent Products</h2>

<table>

<thead>

<tr>

<th>Product Name</th>

<th>Category</th>

Price (₹)			
Status			
Wireless Mouse	Electronics	599	Available
Bluetooth Speaker	Audio	1299	Out of Stock
Running Shoes	Footwear	2499	Available

LOGIN PAGE

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

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

  <title>Login | Product Catalog</title>

  <style>

    /* ===== GLOBAL STYLES ===== */

    * {
      margin: 0;
      padding: 0;
      box-sizing: border-box;
      font-family: "Poppins", sans-serif;
    }

    body {
      height: 100vh; background: linear-gradient(135deg,
#00a8ff, #9c88ff, #fbc531); display: flex; justify-content: center;
      align-items: center;
      background-size: 400% 400%;
      animation: gradientBG 10s ease infinite;
    }

    @keyframes gradientBG {
      0% { background-position: 0% 50%; }
      50% { background-position: 100% 50%; }
      100% { background-position: 0% 50%; }
    }

    /* ===== LOGIN CONTAINER ===== */

    .login-container {
      background: white;
      width: 350px;
      padding: 40px 30px;
      border-radius: 15px;
      box-shadow: 0 8px 25px rgba(0, 0, 0, 0.2);
      text-align: center;
```



```
}
```

```
.login-container h2 {  
margin-bottom: 20px;  
color: #273c75;    font-size:  
1.8em;    font-weight: 600;  
}
```

```
.login-container p { color:  
#555;
```

```
font-size: 0.9em; margin-bottom:  
25px;  
}
```

```
/* ===== INPUT FIELDS ===== */
```

```
.input-field {  
position: relative;  
margin-bottom: 20px;  
}
```

```
.input-field input {  
width: 100%;    padding:  
12px 15px;    border-radius:  
8px;    border: 2px solid  
#dcdde1;    font-size: 1em;  
outline: none;    transition:  
all 0.3s;  
}
```

```
.input-field input:focus {    border-color:
#00a8ff;    box-shadow: 0 0 8px rgba(0, 168,
255, 0.3);
}
```

```
/* ===== BUTTON ===== */

.btn {    width: 100%;    background: linear-
gradient(90deg, #00a8ff, #9c88ff);    color: white;
border: none; padding: 12px;
```

```
font-size: 1em; border-
radius: 8px;    cursor:
pointer;    transition: all
0.3s;
}
```

```
.btn:hover {    background: linear-gradient(90deg,
#9c88ff, #00a8ff);    transform: scale(1.03);
}
```

```
/* ===== FOOTER TEXT ===== */

.footer-text {    margin-
top: 20px;    font-size:
0.9em;
}
```

```
.footer-text a {
color: #00a8ff;    text-
decoration: none;
font-weight: 600;
}
```

```
.footer-text a:hover {    text-  
decoration: underline;  
}
```

```
/* ===== RESPONSIVE ===== */  
  
@media (max-width: 400px) {  
    .login-container {  
width: 90%;    padding:  
30px 20px; }  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

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

```
<h2>Welcome Back 🤖</h2>
```

```
<p>Login to your Product Catalog dashboard</p>
```

```
<form action="/login" method="POST">
```

```
<div class="input-field">
```

```
<input type="text" name="username" placeholder="Enter Username" required>
```

```
</div>
```

```
<div class="input-field">
```

```
<input type="password" name="password" placeholder="Enter Password" required>
```

```
</div>
```

```
<button type="submit" class="btn">Login</button>
```

```
</form>
```

```
<div class="footer-text">
```

Don't have an account? Register here

</div>

</div>

</body>

</html>

PRODUCT VIEW PAGE

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Product View | Product Catalog</title>

<style>

/* ===== GLOBAL STYLES ===== */

* { margin: 0; padding: 0;

box-sizing: border-box; font-

family: "Poppins", sans-serif;

}

body { background: linear-gradient(135deg, #00a8ff, #9c88ff,

#fbc531); background-size: 400% 400%; animation:

gradientMove 10s infinite alternate; display: flex; justify-

content: center; align-items: center; min-height: 100vh;

padding: 20px;

}

@keyframes gradientMove {

0% { background-position: 0% 50%; }

100% { background-position: 100% 50%; }

}

```
/* ===== PRODUCT CONTAINER ===== */

.product-card {  background-
color: #fff;  border-radius: 15px;
max-width: 900px;  width: 100%;
display: flex;  flex-wrap: wrap;
overflow: hidden;  box-shadow: 0
10px 25px rgba(0,0,0,0.2);
}

/* ===== IMAGE SECTION ===== */

.product-image {

  flex: 1;

  min-width: 300px;
background: #f5f6fa;
display: flex;  align-items:
center;  justify-content:
center;  padding: 30px;
}

.product-image img {  width:
100%;  max-width: 400px;
border-radius: 10px;
transition: transform 0.3s ease;
}

.product-image img:hover {
transform: scale(1.05);
}

/* ===== DETAILS SECTION ===== */ .product-details {  flex: 1.2;  padding: 40px;
}
```

```
.product-details h1 {  
color: #273c75;    font-size:  
2em;    margin-bottom:  
10px;  
}
```

```
.product-details h3 {  
color: #00a8ff;    font-  
weight: 500;    margin-  
bottom: 20px;  
}
```

```
.product-details p {  
color: #555;    line-height:  
1.6;    font-size: 1em;  
margin-bottom: 25px;  
}
```

```
.price {    font-size:  
1.8em;    font-weight:  
bold;    color: #e84118;  
margin-bottom: 30px;  
}
```

```
/* ===== BUTTONS ===== */ .button-group {    display: flex;    gap: 15px;  
}
```

```
.btn {    padding: 12px  
20px;    border: none;  
border-radius: 8px;  
cursor: pointer;    font-
```

```
size: 1em;    color: white;
```

```
transition: all 0.3s ease;
```

```
}
```

```
.btn-primary {    background: linear-gradient(90deg,  
#00a8ff, #9c88ff);
```

```
}
```

```
.btn-primary:hover {    background: linear-  
gradient(90deg, #9c88ff, #00a8ff);    transform:  
scale(1.05);
```

```
}
```

```
.btn-secondary {    background: linear-gradient(90deg,  
#55efc4, #00b894);
```

```
}
```

```
.btn-secondary:hover { background: linear-  
gradient(90deg, #00b894, #55efc4); transform:  
scale(1.05);
```

```
}
```

```
/* ===== RESPONSIVE DESIGN ===== */
```

```
@media (max-width: 768px) {
```

```
.product-card {    flex-  
direction: column;    text-  
align: center;
```

```
}
```

```
.product-details {  
padding: 25px;
```

```
}
```

```
.button-group {    justify-
content: center;

}

}

</style>

</head>

<body>

<div class="product-card">

  <div class="product-image">

    

  </div>

  <div class="product-details">

    <h1>Wireless Headphones</h1>

    <h3>Category: Electronics</h3>

    <p>

      Experience immersive sound with these stylish wireless headphones.

      Designed for comfort and clarity, they offer noise cancellation,

      Bluetooth 5.0 connectivity, and up to 20 hours of playback time.    </p>

    <div class="price">₹2,499</div>

    <div class="button-group">

      <button class="btn btn-primary">Add to Cart</button>

      <button class="btn btn-secondary">Buy Now</button>

    </div>

  </div>

</div>

</body> </html>
```


API

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8" />

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

  <title>Product Catalog</title>

  <style>    body {      font-family: 'Poppins', sans-serif;
background: linear-gradient(to right, #89f7fe, #66a6ff);
margin: 0;    padding: 0;

    }

    header {      background-
color: #2c3e50; color: #fff; text-
align: center; padding: 20px 0;

    font-size: 24px;    font-weight: bold;
letter-spacing: 1px;    box-shadow: 0 2px
10px rgba(0, 0, 0, 0.3);

    }

    .container {    max-width: 1200px;    margin: 40px auto;
display: grid;    grid-template-columns: repeat(auto-fill,
minmax(280px, 1fr));    gap: 25px;    padding: 0 20px;

    }

    .card {      background-color: #fff;    border-radius:
15px;    overflow: hidden;    box-shadow: 0 5px 15px
rgba(0, 0, 0, 0.2);    transition: transform 0.3s ease, box-
shadow 0.3s ease;

    }
```

```
.card:hover {    transform: translateY(-
5px);    box-shadow: 0 8px 20px rgba(0, 0,
0, 0.3);
}
```

```
.card img {
    width: 100%;
    height: 220px;
    object-fit: cover; }
```

```
.card-content {
padding: 15px 20px;
}
```

```
.card-content h3 {
margin: 0;    color:
#333;    font-size:
20px;    margin-
bottom: 8px;
}
```

```
.card-content p {
color: #555;    font-size:
14px;    line-height: 1.4;
margin-bottom: 10px;
}
```

```
.price {    font-
size: 18px;    font-
weight: bold;
color: #27ae60;
```

```

    }

    footer {
      text-align:
center; padding:
15px; background:
#2c3e50;
      color: #fff; font-size:
14px; }

</style>
</head>
<body>

<header><img alt="Product Catalog icon" data-bbox="188 388 208 403"/> Product Catalog</header>

<div class="container" id="productContainer">

  <!-- Products will appear here -->

</div>

<footer>© 2025 Product Catalog | Built with Node.js + MongoDB</footer>

<script>

  // Fetch and display products

  async function loadProducts() {

    try {

      const response = await fetch('http://localhost:5000/api/products');

      const products = await response.json();

      const container = document.getElementById('productContainer');

      container.innerHTML = '';

      if (products.length === 0) {
        container.innerHTML = '<p style="text-align:center;color:#333;">No products found.</p>';

```

```

        return;
    }

    products.forEach(product => {        const
card = document.createElement('div');
card.classList.add('card');        card.innerHTML
= `
        
<div class="card-content">

        <h3>${product.name}</h3>

        <p>${product.description || 'No description available.'}</p>

        <div class="price">₹${product.price}</div>

        </div>

        `;

        container.appendChild(card);

    });

} catch (error) {        console.error('Error
loading products:', error);

}

}

```

```
loadProducts();
```

```
</script>
```

```
</body>
```

```
</html>
```

(Full CRUD + Search/Filter)

```
<!DOCTYPE html>
```

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

```
<head>
```

```
<meta charset="utf-8" />
```

```
<meta name="viewport" content="width=device-width,initial-scale=1" />
```

```

<title>Product Catalog — CRUD</title>

<style>

:root{--blue:#0984e3;--muted:#636e72}

body{font-family:Segoe UI, Tahoma, sans-serif;background:linear-
gradient(135deg,#74b9ff,#a29bfe);margin:0;min-height:100vh;display:flex;align-items:flex-
start;justify-content:center;padding:28px}

.wrap{width:100%;max-width:980px;background:#fff;border-radius:14px;padding:20px
22px;box-shadow:0 10px 30px rgba(0,0,0,0.12)}

h1{margin:0 0 6px}

.subtitle{color:var(--muted);margin-top:0;margin-bottom:16px}

form{display:flex;flex-wrap:wrap;gap:10px;align-items:center}

input, select{padding:10px;border:1px solid #dfe6e9;border-radius:8px;font-size:0.95rem}

input[type=number]{width:130px}

.btn{padding:10px 14px;border-radius:8px;border:none;color:#fff;font-weight:700;cursor:pointer}

.save{background:var(--blue)}

.clear{background:#d63031}

.filter-row{display:flex;gap:10px;margin:14px 0;flex-wrap:wrap}

.filter-row input,.filter-row select{flex:1;min-width:160px}

table{width:100%;border-collapse:collapse;margin-top:8px}

th,td{padding:10px;border:1px solid #e6eef6;text-align:center}

th{background:var(--blue);color:#fff}

td{background:#fafcff}

.action{padding:6px 8px;border-radius:6px;border:none;color:#fff;cursor:pointer}

.edit{background:#f1c40f}

.del{background:#e74c3c}

.msg{text-align:center;margin-top:8px;font-weight:700}

@media(max-width:760px){form{flex-direction:column}input[type=number]{width:100%}}

</style>

</head>

<body>

<div class="wrap">

<h1>📦 Product Catalog</h1>

<p class="subtitle">Add, View, Edit, Delete • Search & Filter products</p>

```

```
<form id="productForm">

  <input type="hidden" id="productId">

  <input id="name" placeholder="Name" required>

  <input id="description" placeholder="Description">

  <input id="price" type="number" step="0.01" placeholder="Price" required>

  <input id="category" placeholder="Category">

  <button class="btn save" type="submit">Save</button>

  <button class="btn clear" type="reset">Clear</button>

</form>
```

```
<div class="filter-row">

  <input id="searchInput" placeholder="Search by name...">

  <select id="filterCategory"><option value="">All Categories</option></select>

</div>
```

```
<p id="message" class="msg"></p>
```

```
<table>

  <thead>

    <tr><th>Name</th><th>Description</th><th>Price
($)</th><th>Category</th><th>Actions</th></tr>

  </thead>

  <tbody id="productTable"></tbody>

</table>

</div>
```

```
<script>

const API = '/api/products';

const productForm = document.getElementById('productForm');

const productTable = document.getElementById('productTable');

const message = document.getElementById('message');
```

```

const searchInput = document.getElementById('searchInput');

const filterCategory = document.getElementById('filterCategory');

let allProducts = [];

let editingId = null;

async function fetchProducts(){
  try{

    const r = await fetch(API);

    allProducts = await r.json();

    populateCategoryFilter();

    renderTable(allProducts);

  }catch(e){

    console.error(e);

    message.textContent = 'Failed loading products';

    message.style.color = 'red';

  }
}

function populateCategoryFilter(){

  const cats = Array.from(new Set(allProducts.map(p=>p.category).filter(Boolean)));

  filterCategory.innerHTML = '<option value="">All Categories</option>';

  cats.forEach(c=> filterCategory.insertAdjacentHTML('beforeend', `<option
value="${c}">${c}</option>`));

}

function renderTable(products){

  productTable.innerHTML = '';

  if(!products.length){

    productTable.innerHTML = '<tr><td colspan="5">No products found</td></tr>';

    return;

  }

  products.forEach(p=>{

```

```

productTable.insertAdjacentHTML('beforeend', `
<tr>

<td>${p.name}</td>

<td>${p.description || '-'}</td>

<td>${Number(p.price).toFixed(2)}</td>

<td>${p.category || '-'}</td>

<td>

<button class="action edit" onclick="startEdit('${p._id}')">Edit</button>

<button class="action del" onclick="removeProduct('${p._id}')">Delete</button>

</td>

</tr>

`);
});
}

productForm.addEventListener('submit', async e=>{
e.preventDefault();

const payload = {

name: document.getElementById('name').value.trim(),

description: document.getElementById('description').value.trim(),

price: parseFloat(document.getElementById('price').value),

category: document.getElementById('category').value.trim()

};

try{

let res;

if(editingId){

res = await fetch(`${API}/${editingId}`, {

method:'PUT', headers: {'Content-Type': 'application/json'}, body: JSON.stringify(payload)

});

message.textContent = 'Product updated';

editingId = null;

} else {

```



```

    res = await fetch(API, {
      method: 'POST', headers: {'Content-Type':'application/json'}, body: JSON.stringify(payload)
    });

    message.textContent = 'Product added';
  }

  message.style.color = 'green';
  productForm.reset();
  fetchProducts();
} catch(err){
  console.error(err);
  message.textContent = 'Operation failed';
  message.style.color = 'red';
}
});

```

```

function startEdit(id){
  const p = allProducts.find(x=>x._id===id);
  if(!p) return;
  editingId = id;
  document.getElementById('name').value = p.name;
  document.getElementById('description').value = p.description || '';
  document.getElementById('price').value = p.price;
  document.getElementById('category').value = p.category || '';
  window.scrollTo({top:0,behavior:'smooth'});
}

```

```

async function removeProduct(id){
  if(!confirm('Delete this product?')) return;
  try{
    await fetch(`${API}/${id}`, { method:'DELETE' });
    message.textContent = 'Product deleted';
    message.style.color = 'darkred';
  }
}

```

```
    fetchProducts();

  }catch(e){

    message.textContent = 'Delete failed';

    message.style.color = 'red';

  }

}
```

```
searchInput.addEventListener('input', applyFilters);

filterCategory.addEventListener('change', applyFilters);
```

```
function applyFilters(){

  const q = searchInput.value.trim().toLowerCase();

  const cat = filterCategory.value;

  const filtered = allProducts.filter(p =>

    p.name.toLowerCase().includes(q) &&

    (cat ? p.category === cat : true)

  );

  renderTable(filtered);

}
```

```
// initial load

fetchProducts();

</script>

</body>

</html>
```