Html

```html
<!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: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
      Background: #f9f9f9;
      Margin: 0;
      Padding: 0;
    }


    Header {
      Background-color: #0078d7;
      Color: white;
      Text-align: center;
      Padding: 1rem;
    }

    .catalog {
      Display: grid;
      Grid-template-columns: repeat(auto-fill, minmax(250px, 1fr));
      Gap: 20px;
      Padding: 20px;
    }
```

```css
.product {

  Background: white;

  Border-radius: 8px;

  Box-shadow: 0 2px 6px rgba(0,0,0,0.1);

  Overflow: hidden;

  Transition: transform 0.2s;

}


.product:hover {

  Transform: translateY(-5px);

}


.product img {

  Width: 100%;

  Height: 200px;

  Object-fit: cover;

}


.product-info {

  Padding: 15px;

}


.product-info h3 {

  Margin: 0;

  Font-size: 1.2em;

}
```

```
    .price {
      Color: #0078d7;
      Font-weight: bold;
      Margin-top: 8px;
    }

    .loading, .error {
      Text-align: center;
      Margin: 40px;
      Color: #666;
    }
  </style>
</head>
<body>
  <header>
    <h1>Product Catalog</h1>
  </header>

  <div id="productCatalog" class="catalog"></div>
  <div id="status" class="loading">Loading products...</div>

  <script>
    Async function loadProducts() {
      Const status = document.getElementById('status');
      Const catalog = document.getElementById('productCatalog');
      Status.textContent = 'Loading products...';

      Try {
```

```
    // Fetch products from your MongoDB API

    Const response = await fetch('http://localhost:3000/api/products');

    If (!response.ok) throw new Error('Failed to fetch products');

    Const products = await response.json();


    // Clear loading text

    Status.style.display = 'none';


    // Populate catalog

    Catalog.innerHTML = products.map(p => `

     <div class="product">

      <img src="${p.image || 'https://via.placeholder.com/250x200?text=No+Image'}" alt="${p.name}">

      <div class="product-info">

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

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

       <p class="price">$${p.price?.toFixed(2) || 'N/A'}</p>

      </div>

     </div>

    `).join('');


  } catch (err) {

   Console.error(err);

   Status.className = 'error';

   Status.textContent = 'Error loading products. Please try again later.';

  }

 }
```

```
    loadProducts();

  </script>

</body>

</html>

Js

Import express from "express";

Import cors from "cors";

Import mongoose from "mongoose";


Const app = express();

App.use(cors());

App.use(express.json());


Mongoose.connect("mongodb://localhost:27017/productsDB");


Const productSchema = new mongoose.Schema({

  Name: String,

  Description: String,

  Price: Number,

  Image: String

});


Const Product = mongoose.model("Product", productSchema);


// Example route

App.get("/api/products", async (req, res) => {

  Const products = await Product.find();

  Res.json(products);
```

```
});


App.listen(3000, () => console.log
```