

# Experiment 3

**AIM:-** CRUD Operations for Product Database Using Mongoose

## CODE:-

### HTML

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Product CRUD App</title>

  <link rel="stylesheet" href="style.css">

</head>

<body>

  <div class="container">

    <h1>📦 Product Manager</h1>


    <!-- Product Form -->

    <form id="productForm" class="card">

      <input type="text" id="name" placeholder="Product Name" required>

      <input type="number" id="price" placeholder="Price (₹)" required>

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

      <button type="submit" class="btn">Add Product</button>

    </form>


    <!-- Product List -->

    <div class="card">
```

```
<h2>All Products</h2>
<ul id="productList"></ul>
</div>
</div>

<script src="script.js"></script>
</body>
</html>
```

## CSS

```
/* General */
body {
  font-family: "Poppins", sans-serif;
  background: linear-gradient(120deg, #667eea, #764ba2);
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: center;
  align-items: flex-start;
  min-height: 100vh;
}

.container {
  max-width: 600px;
  width: 100%;
  margin: 30px;
  color: #333;
}
```

```
h1 {  
  text-align: center;  
  color: white;  
  margin-bottom: 20px;  
}
```

```
.card {  
  background: white;  
  border-radius: 12px;  
  padding: 20px;  
  box-shadow: 0px 5px 15px rgba(0,0,0,0.15);  
  margin-bottom: 20px;  
}
```

```
h2 {  
  margin-top: 0;  
}
```

```
/* Form */
```

```
form input {  
  width: calc(33% - 10px);  
  padding: 10px;  
  margin: 5px 5px 10px 0;  
  border: 1px solid #ccc;  
  border-radius: 8px;  
}
```

```
.btn {  
  background: #667eea;
```

```
    color: white;
    padding: 10px 15px;
    border: none;
    border-radius: 8px;
    cursor: pointer;
    transition: 0.3s;
}
```

```
.btn:hover {
    background: #5a67d8;
}
```

```
/* Product List */
```

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

```
li {
    background: #f8f9fa;
    margin-bottom: 10px;
    padding: 12px;
    border-radius: 8px;
    display: flex;
    justify-content: space-between;
    align-items: center;
}
```

```
li span {  
  font-weight: 500;  
}
```

```
.actions button {  
  margin-left: 5px;  
  padding: 6px 10px;  
  border: none;  
  border-radius: 6px;  
  cursor: pointer;  
  font-size: 14px;  
}
```

```
.edit {  
  background: #38a169;  
  color: white;  
}
```

```
.delete {  
  background: #e53e3e;  
  color: white;  
}
```

## JavaScript

```
const form = document.getElementById("productForm");
```

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

```
let products = []; // dummy local array (replace later with API calls)
```

// Render Products

```
function renderProducts() {  
  productList.innerHTML = "";  
  products.forEach((p, i) => {  
    const li = document.createElement("li");  
    li.innerHTML = `  
      <span>${p.name} - ₹${p.price} (${p.category || "Uncategorized"})</span>  
      <div class="actions">  
        <button class="edit" onclick="editProduct(${i})">Edit</button>  
        <button class="delete" onclick="deleteProduct(${i})">Delete</button>  
      </div>  
    `;  
    productList.appendChild(li);  
  });  
}
```

// Add Product

```
form.addEventListener("submit", (e) => {  
  e.preventDefault();  
  const product = {  
    name: document.getElementById("name").value,  
    price: document.getElementById("price").value,  
    category: document.getElementById("category").value  
  };  
  products.push(product);  
  renderProducts();  
  form.reset();  
});
```

```
// Delete Product

function deleteProduct(index) {
  products.splice(index, 1);
  renderProducts();
}

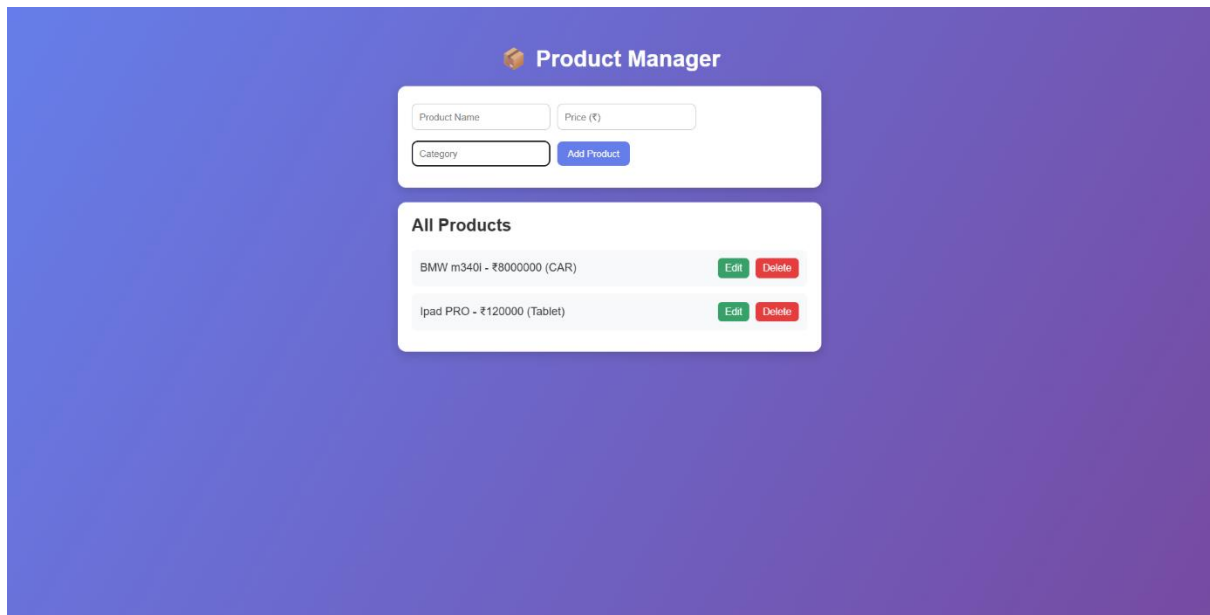
// Edit Product

function editProduct(index) {
  const p = products[index];
  document.getElementById("name").value = p.name;
  document.getElementById("price").value = p.price;
  document.getElementById("category").value = p.category;

  products.splice(index, 1); // remove old entry so updated one can be re-added
  renderProducts();
}

// Initial render
renderProducts();
```

**OUTPUT:**



Wanna try it out then go on to the following link  
<http://127.0.0.1:3000/index.html>