

## **1. System Overview – brief description and purpose of the system**

The system is a **CodeIgniter 4 (CI4) Inventory Product Management** web application. Its main purpose is to let users **log in** and manage product records using **CRUD**. Products can be viewed in a **table layout** (with pagination + search) and a **card layout** (with barcode display).

## **2. System Architecture – explanation of the CI4 structure (controllers, models, views, modules)**

### **Controllers (app/Controllers)**

#### **AuthController**

- `loginView()` – loads login page
- `login()` – checks username/password and creates session
- `logout()` – destroys session and redirects to login

#### **ProductController**

- `index()` – displays product list (table view) with pagination (5 per page)
- `cards()` – displays product cards view (shows all products)
- `add()` – loads add product form
- `editForm($id)` – loads edit product form with product data
- `create()` – inserts new product then redirects with flash message
- `update($id)` – updates product then redirects with flash message
- `delete($id)` – deletes product then redirects with flash message

### **Models (app/Models)**

#### **UserModel**

- Table: users
- Fields: username, password
- Methods:
  - `checkUser($username)` – fetches a user by username
  - `hashPassword($password)` – bcrypt hashing method for password storage

## **ProductModel**

- Table: products
- Fields: product\_name, description, price
- CRUD Methods:
  - createProduct(\$data)
  - getProduct(\$id)
  - updateProduct(\$id, \$data)
  - deleteProduct(\$id)

## **Views (app/Views)**

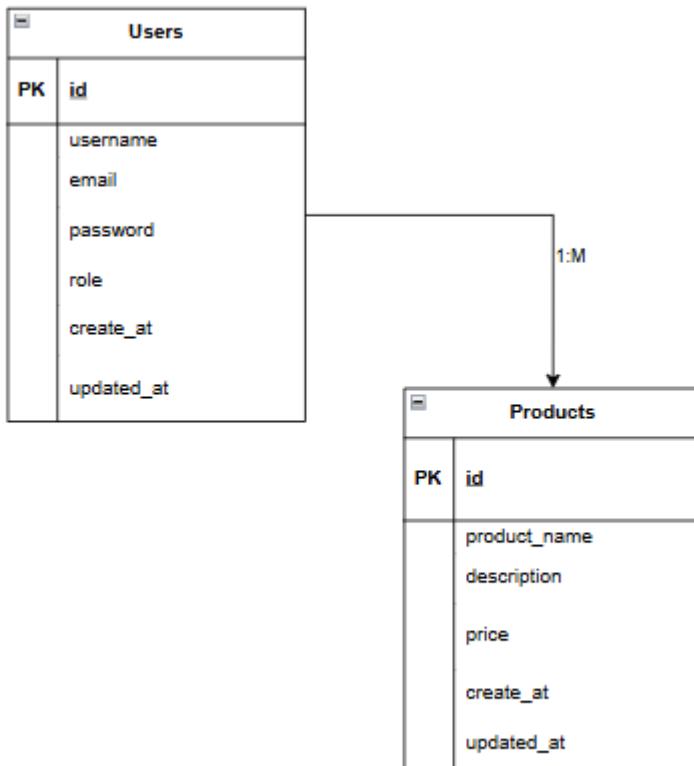
- login.php – login form with Bootstrap + flash messages
- product\_view.php – product table list with sidebar, search, pagination, edit/delete
- product\_card.php – product card layout with barcode image per product
- add\_product.php – add product form (with CSRF)
- edit\_product.php – edit product form (with CSRF)

## **Modules**

1. Authentication Module (Login/Logout Session)
2. Product Management Module (CRUD)
3. Product Display Module (Table View + Card View + Barcode)

### 3. Database Design – ER diagram, table structure, and relationships

#### ER Diagram



#### Table Structure

##### Table: users

- id (Primary Key)
- username
- password (*hashed using bcrypt*)

##### Table: products

- id (Primary Key)
- product\_name
- description
- price
- created\_at (*displayed in product table*)
- updated\_at (*displayed in product table*)

## **Relationships**

- Current implementation shows **no foreign key relationship** between users and products (products are shared/global once logged in).

## **4. Authentication Module – brief description of login/logout process and role management**

### **Login Process**

1. User opens GET / → login form displayed.
2. User submits credentials via POST /login.
3. System checks username using UserModel::checkUser(\$username).
4. If user exists, password is validated using password\_verify().
5. If valid, session is created:
  - o isLoggedIn, user\_id, username
6. Redirects to /dashboard.

### **Logout Process**

1. User clicks logout (GET /logout).
2. System destroys session via session()->destroy().
3. Redirects to /?logout=1.

### **Role Management**

- Current code does **not include roles** (e.g., admin/staff). It only checks if login is successful.

## **5. API Integration – description of the API used, sample endpoint(s), and purpose**

### **API Used:** QR Code Generator (External API)

In the *Product Cards* view, QR codes are generated using the **goQR / QRServer API** ([api.qrserver.com](http://api.qrserver.com)) and displayed on each product card.

### **Purpose:**

To generate a scannable **QR code per product** for faster product identification. The QR code encodes a custom string composed of the product ID and product name (e.g., PRODUCT-000123 | Product Name), which can be scanned using a phone camera or QR scanner.

### **Sample Endpoint Format:**

- <https://api.qrserver.com/v1/create-qr-code/?size=150x150&data={DATA}&bgcolor=000000&color=FFFFFF&margin=10>

#### **Implementation:**

For each product, the system builds a data string using the product ID (zero-padded) and product name, then constructs the QR code URL dynamically. The QR is rendered in the card layout using an `<img>` tag:

- `data = "PRODUCT-" + padded_id + "|" + product_name`
  - ``
- 

## **6. System Features / Modules – summary of key CRUD functionalities**

### **Product CRUD Features**

- **Create Product**
  - Route: POST products/store
  - Input: product name, description, price
  - Output: flash message “Product created successfully!”
- **Read / View Products**
  - Table View: GET /dashboard (pagination + search UI)
  - Card View: GET /products/cards (all products + barcode)
- **Update Product**
  - Edit page: GET products/edit/{id}
  - Update action: POST products/update/{id}
  - Output: flash message “Product updated successfully!”
- **Delete Product**
  - Route: GET products/delete/{id}
  - Confirmation prompt before delete
  - Output: flash message “Product deleted successfully!”

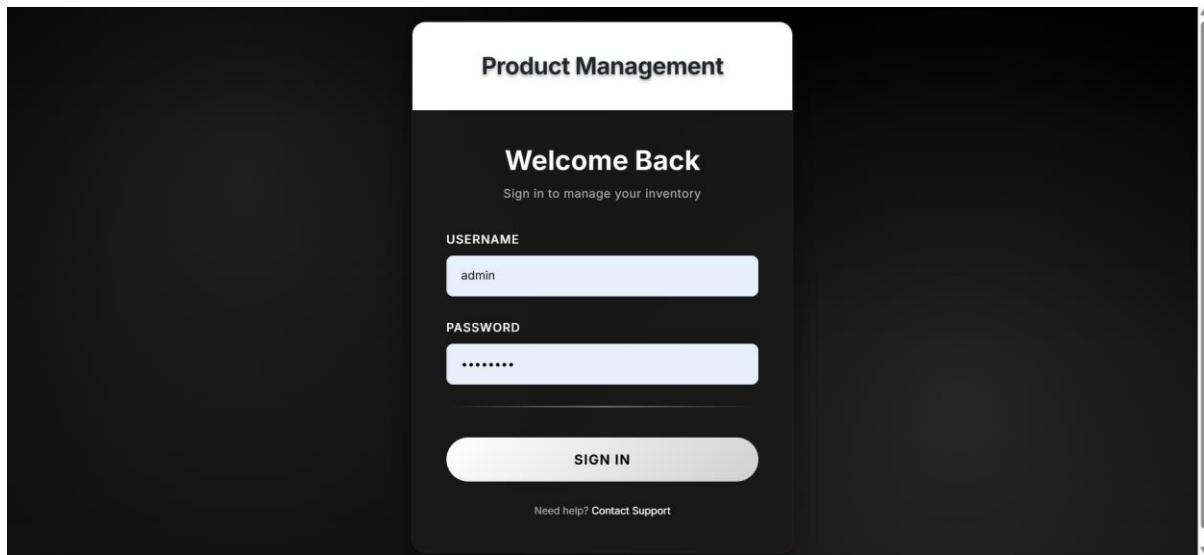
## 7. Security Implementation – password hashing and CSRF protection

### Implemented Security Measures

- **Password verification**
  - Uses `password_verify()` for checking hashed passwords stored in DB.
- **Password hashing support**
  - `UserModel::hashPassword()` uses bcrypt (`PASSWORD_BCRYPT`) for secure storage.
- **CSRF Protection**
  - Forms include `<?= csrf_field() ?>` (seen in add/edit product forms).
- **Basic client confirmation**
  - Logout and delete actions use confirmation dialog (`confirm()`).

*(Optional improvement: protect routes like /dashboard with CI4 Filters to block access when not logged in.)*

## 8. Testing and Validation



The login page lets users enter their username and password, then submits the form to **/login** where the system validates the credentials, creates a user session, and redirects the user to the dashboard upon successful authentication.

### Product\_View.php

A screenshot of the product list view. The top navigation bar includes links for "Inventory", "Products Table", "Product Cards", "Add Product", and "Logout". Below the navigation is a header with "Product List", a search bar with placeholder "Search products...", and a "Add Product" button. On the left, a box shows "2 Total Products". The main area is a table with columns: PRODUCT NAME, DESCRIPTION, PRICE (₱), CREATED AT, UPDATED AT, and ACTIONS. Two rows of data are shown: one for a "Table" (Square, ₱ 1,000.00) and one for "Zest-O" (barato, ₱ 12.00). Each row has "Edit" and "Delete" buttons in the ACTIONS column.

The product view presents all records in a tabular format, providing options to view, edit, and delete entries, allowing users to efficiently manage and maintain the stored data.

## Product\_Cards.php

The screenshot shows a dark-themed web application interface for managing inventory. At the top, there's a navigation bar with links for 'Inventory Product Management', 'Products Table', 'Product Cards' (which is the active tab), and 'Add Product'. On the right side of the header is a 'Logout' button. Below the header, the title 'Product Cards' is displayed, along with a message indicating 'Total Products: 2'. The main content area contains two product cards. The first card is for a product named 'Table', which is described as 'Square' and has a price of 'P 1,000.00'. The second card is for a product named 'Zest-O', described as 'barato' and has a price of 'P 12.00'. Each card features a QR code with the text 'SCAN ME · ID: 5' and 'SCAN ME · ID: 7' respectively. Below each QR code are two buttons: a grey 'Edit' button and a red 'Delete' button.

The product card view shows products in a card layout and generates a QRCode image for each product using its ID.

## Add\_Product.php

The screenshot shows a dark-themed web application interface for managing inventory. At the top, there's a navigation bar with links for 'Inventory Product Management', 'Products Table', 'Product Cards', and 'Add Product' (which is the active tab). On the right side of the header is a 'Logout' button. The main content area features a modal window titled 'Add New Product' with the sub-instruction 'Fill in the details to add a new product to your inventory'. The form includes three fields: 'PRODUCT NAME' with an input field containing 'Enter product name', 'DESCRIPTION' with an input field containing 'Enter product description' and a character limit of '0/500', and 'PRICE (P)' with an input field containing '0.00'.

The add product page provides a form to create a new product (name, description, price) and saves it to the database with CSRF protection.

## Edit\_Product.php

The screenshot shows a dark-themed web application interface for 'Inventory Product Management'. At the top, there's a navigation bar with icons for 'Products Table', 'Product Cards', and 'Add Product', along with a 'Logout' button. The main content area is titled 'Edit Product' with 'ID: 5' and a sub-instruction 'Update the details for Table'. The form contains three fields: 'PRODUCT NAME' with the value 'Table', 'DESCRIPTION' with the value 'Square' and a character count of '6/500', and 'PRICE (₹)' with the value '1000.00'.

The edit product page preloads the selected record's information into a form, allowing the user to modify the details and save the updated data back to the database.

## **9. System Setup Guide – installation steps and dependencies for running the project**

### **Requirements / Dependencies**

- PHP (compatible with CodeIgniter 4)
- Composer
- MySQL/MariaDB (or any DB CI4 supports)
- Bootstrap / Icons via CDN (no local install needed)
- Internet connection (for bwip-js barcode API + CDN libraries)

### **Setup Steps**

1. Download / clone the CI4 project.
2. Run: composer install
3. Configure database in .env (DB host/user/pass/name).
4. Create database tables:
  - users
  - products
5. Insert at least one user record with **bcrypt hashed password**.
6. Run the server:
  - php spark serve
7. Open in browser:
  - / login page
  - /dashboard after successful login

## **10. Conclusion / Future Improvements – limitations and enhancements**

### **Conclusion**

This project demonstrates a complete **CI4 MVC CRUD system** with authentication, product management, UI views (table + card), pagination, and barcode integration using an external API.

## **Future Improvements**

- Add **role-based access** (admin vs staff)
- Add **login-required route protection** via CI4 Filters
- Change delete action to **POST/DELETE** instead of GET (more secure)
- Add server-side validation rules (e.g., price must be > 0)
- Link products to users (add user\_id FK) for multi-user ownership
- Add import/export features (CSV/PDF) for inventory reporting

**Codes:**

**Login.php:**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Login</title>

    <!-- Bootstrap CSS -->

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

</head>

<style>

.form-control:focus{    border-color:
#43a047 !important; /* green border */

box-shadow: 0 0 0 .2rem

rgba(67,160,71,.25) !important; /*

green glow */    outline: 0 !important;

}

</style>

<body class="bg-light d-flex align-items-center justify-content-center vh-100">

<div class="card shadow p-0 overflow-hidden " style="width: 400px;">

    <div class="card-header text-center fw-bold py-3"

style="background: linear-gradient(135deg,#a5d6a7
0%,#66bb6a 100%); color:#1b5e20; border:0;">
```

## Inventory Product Management

```
</div>
```

```
<div class="card shadow p-4" style="width: 400px;">
```

```
    <h3 class="text-center mb-4">Login</h3>
```

```
    <!-- Show error message if login fails -->
```

```
    <?php if(session()->getFlashdata('error')): ?>
```

```
        <div class="alert alert-danger">
```

```
            <?= session()->getFlashdata('error') ?>
```

```
        </div>
```

```
    <?php endif; ?>
```

```
    <!-- Show success message if login succeeds or other info -->
```

```
    <?php if(session()->getFlashdata('success')): ?>
```

```
        <div class="alert alert-success">
```

```
            <?= session()->getFlashdata('success') ?>
```

```
        </div>
```

```
    <?php endif; ?>
```

```
    <!-- Show logout message as alert if user just logged out (via query param)
```

```
-->
```

```
    <?php if (isset($_GET['logout']) && $_GET['logout'] == '1'): ?>
```

```
        <script>
```

```
            window.alert("Success
```

```
fully Logged Out");
```

```
        </script>
```

```
<?php endif; ?>

<!-- Show validation errors if any -->

<?php if(isset($validation) && $validation->hasError('username')): ?>

<div class="alert alert-danger">
    <?= $validation->getError('username') ?>
</div>

<?php endif; ?>

<?php if(isset($validation) && $validation->hasError('password')): ?>

<div class="alert alert-danger">
    <?= $validation->getError('password') ?>
</div>

<?php endif; ?>

<form action="<?= base_url('/login') ?>" method="post">
    <div class="mb-3">
        <label for="username" class="form-label">Username</label>
        <input type="text" name="username" id="username" class="form-control" required>
    </div>

    <div class="mb-3">
        <label for="password" class="form-label">Password</label>
        <input type="password" name="password" id="password" class="form-control" required>
    </div>

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

```
</form>
</div>
<?php

?>

</body>
</html>

Product_View.php
<!-- app/Views/product_view.php -->
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Product List</title>
<link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
<link href="https://cdn.jsdelivr.net/npm/@fontawesome/fontawesome@6.0.0/css/all.min.css" rel="stylesheet">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css">

<style>
:root{
--green-700:#2e7d32;
--green-600:#388e3c;
--green-500:#43a047;
```

```
--green-100:#eaf6ec;  
  
--border:#e9ecf;  
--text:#1f2937;  
--muted:#6b7280;  
  
--sidebar-w: 270px;  
}  
  
body{  
background:#ff  
ffff !important;  
color: var(--  
text);  
}  
  
/* ===== Sidebar ===== */  
  
.sideb  
ar{  
positi  
on:  
fixed;  
top: 0;  
left: 0;
```

```
height: 100vh;  
width: var(--  
sidebar-w);  
background: #fff;  
border-right: 1px  
solid var(--border);  
padding: 18px  
16px;  
  
z-index:  
1030;  
  
display:  
flex;  
flex-  
direction:  
column;  
gap:  
14px;  
}  
  
.sidebar-brand{  
display:flex; align-items:center; gap:10px;  
padding: 10px 10px; border-radius: 14px;  
background: linear-gradient(135deg,  
rgba(234,246,236,.95) 0%, rgba(200,230,201,.7)  
100%); border: 1px solid rgba(56,142,60,.22);
```

```
color:#0f3d18;    font-weight: 800;    letter-
spacing:.2px;
}

.sidebar-brand i{ color: var(--green-700); font-size: 1.2rem; }

.sidebar-
nav{
margin-top:
6px;
display:flex;
flex-
direction:
column;
gap: 6px;
}

.sidebar-link{ display:flex; align-
items:center; gap:10px; padding:
10px 12px; border-radius: 12px;
text-decoration: none; color: var(--text);
border: 1px solid transparent;
transition: background .12s ease, border-
color .12s ease, transform .12s ease;
}

.sidebar-link i{ color: var(--green-700); }
```

```
.sidebar-  
link:hover{  
background:  
rgba(234,246,23  
6,.75); border-  
color:  
rgba(56,142,60,.  
22);  
transform:  
translateY(-1px);  
}  
.sidebar-  
link.active{  
background:  
rgba(234,246,236  
.9); border-  
color:  
rgba(56,142,60,.2  
8); font-  
weight: 700;  
}  
  
.sidebar-spacer{ flex: 1; }
```

```
.sidebar-logout{  
    border-top: 1px  
    solid var(--  
    border);  
  
    padding-top:  
    12px;  
  
}  
  
.logout-link{  
  
    display:flex;    align-  
    items:center;    justify-  
    content:center;    gap:10px;  
  
    padding: 10px 12px;  
  
    border-radius: 12px;    text-  
    decoration:none;    font-  
    weight: 800;  
  
    color:#b42318;    border:  
    1px solid  
    rgba(180,35,24,.18);  
  
    background:  
    rgba(180,35,24,.04);  
  
    transition: transform .12s  
    ease, box-shadow .12s ease;  
  
}  
  
.logout-link:hover{  
  
    transform: translateY(-
```

```
1px);    box-shadow: 0  
10px 18px  
rgba(180,35,24,.10);  
  
}  
  
/* Main content offset for sidebar */  
.content{  
margin-left:  
var(--sidebar-  
w);  
padding: 18px  
18px 30px;  
}  
  
/* Mobile: collapse sidebar */  
.sidebar-  
toggle{  
display:none  
; position:  
fixed; top:  
14px; left:  
14px; z-  
index: 1040;  
border-  
radius: 12px  
!important;
```

```
box-  
shadow: 0  
10px 18px  
rgba(16,24,  
40,.10);  
}  
  
@media (max-width: 991.98px){
```

```
:root{ --sidebar-w: 280px; }
```

```
.sidebar{  
transform:  
translateX(-  
105%);  
transition:  
transform .18s  
ease;  
}
```

```
.sidebar.sho  
w{  
transform:  
translateX(0)  
;  
}
```

```
.content{  
margin-left: 0;  
padding-top: 64px; /*  
space for toggle */  
  
}  
.sidebar-toggle{ display:inline-flex; }  
  
/* ===== Your existing styles (kept) ===== */  
.card{ border-radius:16px !important; }  
  
.card-green{ background: linear-gradient(135deg,  
rgba(234,246,236,.95) 0%, rgba(200,230,201,.7) 100%)  
!important; border: 1px solid rgba(56,142,60,.22)  
!important; color: #0f3d18 !important; border-  
radius: 16px !important;  
  
}  
.card-green .text-white{ color:#0f3d18 !important; }  
.card-green i{ color: var(--green-700) !important; }  
  
.card.shadow-sm.border-  
success{ border:1px solid  
var(--border) !important;  
box-shadow: 0 10px 26px  
rgba(16,24,40,.08)
```

```
!important;

overflow:hidden;

}

.btn-green{ background-
color: var(--green-600)
!important; border-color:
var(--green-600) !important;
color:#fff !important; font-
weight:700; border-
radius:12px !important;
box-shadow: 0 10px 18px
rgba(56,142,60,.18);
transition: transform .12s
ease, box-shadow .12s ease;
}

.btn-green:hover{
background-color: var(--green-700) !important;
border-color: var(--green-700) !important;
transform: translateY(-
1px); box-shadow: 0
12px 22px
rgba(56,142,60,.22);
}
```

```
.btn-green i,.btn-green .bi,.btn-green .fas{ color:#fff !important; }

#searchInput{
border:1px solid var(--  
border) !important;  
border-radius: 12px 0  
0 12px !important;  
padding: .65rem  
.9rem;  
}  
  
#searchInput:focus{  
border-color:  
rgba(67,160,71,.65)  
!important; box-shadow: 0  
0 0 .2rem rgba(56,142,60,.14)  
!important;  
}  
  
#searchBtn{ border-radius:0 !important; }  
#clearBtn{ border-radius:0 12px 12px 0 !important; }  
  
.table{ margin-bottom:0 !important; }  
.table-green th{  
background:#f7fbf7  
!important;  
color:#145a1f !important;  
border-bottom:1px solid
```

```
var(--border) !important;  
font-weight:800; letter-  
spacing:.2px; padding:  
14px 10px;  
}
```

```
.table td{ border-
```

```
color: var(--
```

```
border)
```

```
!important;
```

```
padding: 14px
```

```
10px;
```

```
vertical-align: middle;
```

```
}
```

```
.table-hover tbody
```

```
tr:hover{ background:
```

```
rgba(234,246,236,.75)
```

```
!important;
```

```
}
```

```
.alert{ border-
```

```
radius:14px
```

```
!important;
```

```
border:1px solid var(--
```

```
border) !important;
```

```
box-shadow: 0 8px
```

```
18px  
rgba(16,24,40,.06);  
}  
.alert-success{  
background:#f3fbf4  
!important;  
color:#145a1f  
!important; border-  
color:  
rgba(56,142,60,.22)  
!important;  
}  
  
.pagination  
.page-link{  
color: var(--  
green-600);  
border-color:  
var(--border);  
border-  
radius:12px  
!important;  
margin: 0 4px;  
}  
.pagination .page-link:hover{
```

```
    color:#fff;  
  
background:  
var(--green-  
500);  
  
border-color:  
var(--green-  
500);  
  
}  
  
.pagination .page-  
  
link:focus{ color:#fff;  
  
background: var(--  
green-600); border-  
color: var(--green-600);  
  
box-shadow: 0 0 0  
.2rem  
  
rgba(56,142,60,.14);  
  
}  
  
.pagination .page-  
  
item.active .page-  
  
link{ color:#fff;  
  
background: var(--  
green-600);  
  
border-color: var(--  
green-600);  
  
}
```

```
.pagination .page-item.disabled .page-link{ color:#a1a1aa; background:#fff; border-color: var(--border); }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<!-- Mobile toggle -->
```

```
<button class="btn btn-green sidebar-toggle" type="button" id="sidebarToggle">
```

```
 <i class="bi bi-list"></i>
```

```
</button>
```

```
<!-- Sidebar -->
```

```
<aside class="sidebar" id="sidebar">
```

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

```
 <i class="bi bi-bag-check"></i>
```

```
 <div>
```

```
 <div style="line-height:1;">Inventory</div>
```

```
 <div class="small" style="font-weight:600; opacity:.85;">Product Management</div>
```

```
</div>
</div>

<nav class="sidebar-nav">
  <!-- Mark active as needed -->
  <a class="sidebar-link active" href="= base_url('/dashboard') ?&gt;"&gt;
    &lt;i class="bi bi-box-seam"&gt;&lt;/i&gt;
    &lt;span&gt;Products (Table)&lt;/span&gt;
  &lt;/a&gt;

  &lt;a class="sidebar-link" href="<?= base_url('products/cards') ?&gt;"&gt;
    &lt;i class="bi bi-grid-3x3-gap"&gt;&lt;/i&gt;
    &lt;span&gt;Product Cards&lt;/span&gt;
  &lt;/a&gt;

  &lt;a class="sidebar-link" href="<?= base_url('product/productForm') ?&gt;"&gt;
    &lt;i class="bi bi-plus-circle"&gt;&lt;/i&gt;&lt;span&gt;Add Product&lt;/span&gt;
  &lt;/a&gt;

  &lt;!-- Add more links if you want
  &lt;a class="sidebar-link" href="<?= base_url('dashboard') ?&gt;"&gt;
    &lt;i class="bi bi-speedometer2"&gt;&lt;/i&gt;&lt;span&gt;Dashboard&lt;/span&gt;
  &lt;/a&gt;
  --&gt;
&lt;/nav&gt;

&lt;div class="sidebar-spacer"&gt;&lt;/div&gt;

&lt;!-- Logout moved here --&gt;</pre
```

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

<a href=<?= base_url('/logout')?>"

class="logout-link"

onclick="return confirm('Are you

sure you want to logout?');">

    <i class="bi bi-box-arrow-right"></i>

    <span>Logout</span>

</a>

</div>

</aside>

<!-- Main content -->

<main class="content">

<div class="container mt-3 mt-lg-5">

    <!-- Header -->

    <div class="mb-4">

        <h2 class="text-dark mb-3">Product List</h2>

    <div class="row align-items-center">

        <!-- Total Products Card -->

        <div class="col-md-4 mb-3 mb-md-0">

            <div class="card shadow-sm border-0 card-green">

                <div class="card-body text-center py-3">

                    <div class="d-flex align-items-center justify-content-center">

                        <div class="me-3">

                            <i class="fas fa-box" style="font-size: 1.8rem; opacity: 0.8;"></i>
```

```
</div>

<div>

<h4 class="mb-0 fw-bold text-white"><?= $totalProducts ?></h4>

<p class="mb-0 small opacity-90 text-white">Total Products</p>

</div>

</div>

</div>

</div>

<!-- Search Bar -->

<div class="col-md-5 mb-3 mb-md-0">

<div class="input-group">

    <input type="text" class="form-control"
placeholder="Search products..." id="searchInput">

    <button class="btn btn-green" type="button" id="searchBtn">

        <i class="fas fa-search"></i>

    </button>

    <button class="btn btn-green" type="button" id="clearBtn"
title="Clear search">

        <i class="fas fa-times"></i>

    </button>

</div>

</div>

<!-- Add Product Button -->

<div class="col-md-3 text-md-end">

</div>

</div>
```

```
</div>

<!-- Flash Messages -->

<?php if (session()->has('message')): ?>

<div class="alert alert-success alert-dismissible fade show" role="alert">
    <i class="fas fa-check-circle me-2"></i>
    <?= session('message') ?>
    <button type="button" class="btn-close" data-bs-dismiss="alert" aria-
label="Close"></button>
</div>

<?php endif; ?>

<?php if (session()->has('error')): ?>

<div class="alert alert-danger alert-dismissible fade show" role="alert">
    <i class="fas fa-exclamation-circle me-2"></i>
    <?= session('error') ?>
    <button type="button" class="btn-close" data-bs-dismiss="alert" aria-
label="Close"></button>
</div>

<?php endif; ?>

<?php if (session()->has('warning')): ?>

<div class="alert alert-warning alert-dismissible fade show" role="alert">
    <i class="fas fa-exclamation-triangle me-2"></i>
    <?= session('warning') ?>
    <button type="button" class="btn-close" data-bs-dismiss="alert" aria-
label="Close"></button>
</div>

<?php endif; ?>
```

```
<?php if (session()->has('info')): ?>

<div class="alert alert-info alert-dismissible fade show" role="alert">
    <i class="fas fa-info-circle me-2"></i>
    <?= session('info') ?>
    <button type="button" class="btn-close" data-bs-dismiss="alert" aria-label="Close"></button>
</div>

<?php endif; ?>

<div class="card shadow-sm border-success">
    <div class="card-body">
        <table class="table table-bordered table-hover text-center">
            <thead class="table-green">
                <tr>
                    <th>Product Name</th>
                    <th>Description</th>
                    <th>Price (₱)</th>
                    <th>Created At</th>
                    <th>Updated At</th>
                    <th>Actions</th>
                </tr>
            </thead>
            <tbody>
                <?php if (!empty($products) && is_array($products)): ?>
                <?php foreach ($products as $product): ?>
                    <tr>
                        <td><?= esc($product['product_name']) ?></td>
                        <td><?= esc($product['description']) ?></td>
```

```

<td><?= number_format($product['price'], 2) ?></td>
<td><?= date('M, d Y', strtotime($product['created_at'])) ?></td>
<td><?= date('M, d Y', strtotime($product['updated_at'])) ?></td>
<td>
    <a href=<?= base_url('products/edit/' . $product['id']) ?>" class="btn btn-green btn-sm">
        <i class="bi bi-pencil"></i> Edit
    </a>
    <a href=<?= base_url('products/delete/' .
$product['id']) ?>" class="btn btn-green btn-sm"
        onclick="return confirm('Are you sure you want to delete this
product?');">
        <i class="bi bi-trash"></i> Delete
    </a>
</td>
</tr>
<?php endforeach; ?>
<?php else: ?>
<tr>
    <td colspan="6" class="text-muted">No products found.</td>
</tr>
<?php endif; ?>
</tbody>
</table>

<!-- Pagination -->
<?php if ($totalPages > 1): ?>
<nav aria-label="Product pagination" class="mt-4">

```

```
<ul class="pagination justify-content-center">

    <?php if ($currentPage > 1): ?>

        <li class="page-item">
            <a class="page-link" href="<?= base_url('?page=' .
($currentPage - 1)) ?>" aria-label="Previous">
                <span aria-hidden="true">&laquo;</span>
            </a>
        </li>

        <?php else: ?>
            <li class="page-item disabled">
                <span class="page-link" aria-label="Previous"><span aria-
hidden="true">&laquo;</span></span>
            </li>
        <?php endif; ?>

        <?php for ($i = 1; $i <= $totalPages; $i++): ?>
            <?php if ($i == $currentPage): ?>
                <li class="page-item active"><span class="page-link"><?= $i
?></span></li>
            <?php else: ?>
                <li class="page-item"><a class="page-link" href="<?=
base_url('?page=' . $i) ?>"><?= $i ?></a></li>
            <?php endif; ?>
        <?php endfor; ?>

        <?php if ($currentPage < $totalPages): ?>
            <li class="page-item">
                <a class="page-link" href="<?= base_url('?page=' . ($currentPage +
1)) ?>" aria-label="Next">
```

```
<span aria-hidden="true">>&raquo;</span>
</a>
</li>
<?php else: ?>
<li class="page-item disabled">
    <span class="page-link" aria-label="Next"><span
        aria-hidden="true">>&raquo;</span></span>
</li>
<?php endif; ?>
</ul>
</nav>

<div class="text-center text-muted mt-2">
    <small>
        Showing <?= (($currentPage - 1) * $perPage) + 1 ?> to
        <?= min($currentPage * $perPage, $totalProducts) ?> of
        <?= $totalProducts ?> products
    </small>
</div>
<?php endif; ?>
</div>
</div>

</div>
</main>

<script>
document.addEventListener('DO
MContentLoaded', function() {
```

```
// Sidebar toggle (mobile)

const sidebar =
  document.getElementById('sidebar');
  const toggle =
  document.getElementById('sidebarToggle');

if (toggle) {
  toggle.addEventListener('click', () =>
    sidebar.classList.toggle('show'));
}

// Your search script (unchanged)

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

const tableRows =
  document.querySelectorAll('tbody tr');
  const noProductsRow =
  document.querySelector('tbody tr
td[colspan]');
  let originalNoProductsMessage = '';
```

```
if (noProductsRow) {  
  
    originalNoProductsMessage =  
  
    noProductsRow.innerHTML;  
  
}  
  
function performSearch() {  
  
    const searchTerm =  
  
        searchInput.value.toLowerCase()  
  
    ().trim();  let visibleRows = 0;  
  
  
  
  
    tableRows.forEach(row  
  
=> {      if  
  
        (row.querySelector('td['  
  
        colspan])) return;  
  
  
        const productName =  
  
            row.cells[0].textContent.toLowerCase()  
  
        e();      const description =  
  
            row.cells[1].textContent.toLowerCase()  
  
        e();      const price =  
  
            row.cells[2].textContent.toLowerCase()  
  
        e();  
  
  
  
        if (searchTerm  
        === " ||  
  
        productName.includes
```

```
(searchTerm) ||  
description.includes(se  
archTerm) ||  
price.includes(searchT  
erm)) {  
  
row.style.display = "";  
  
visibleRows++;  
  
} else {  
  
row.style.displ  
ay = 'none';  
  
}  
});  
  
  
if (searchTerm !== "" && visibleRows  
== 0) { if (noProductsRow) {  
  
noProductsRow.innerHTML = 'No  
products found matching your search.';  
  
noProductsRow.parentElement.style.displ  
ay = "";  
  
}  
}  
}  
else if (searchTerm === "" | | visibleRows  
> 0) { if (noProductsRow) { if  
(searchTerm === "")  
  
noProductsRow.innerHTML =  
originalNoProductsMessage; if
```

```
(visibleRows > 0)

noProductsRow.parentElement.style.display =
'none';

}

}

const pagination =
document.querySelector('nav[aria-
label="Product pagination"]'); const
paginationInfo = document.querySelector('.text-
center.text-muted');

if (searchTerm !== "") { if
(pagination)
pagination.style.display =
'none'; if (paginationInfo)
paginationInfo.style.display =
'none';
} else { if
(pagination)
pagination.style.displ
ay = ""; if
(paginationInfo)
paginationInfo.style.d
isplay = ";
```

```
        }

    }

function

clearSearch() {

searchInput.value =

";

performSearch();

searchInput.focus();

}

searchBtn.addEventListener('

click',      performSearch);

clearBtn.addEventListener('cl

ick',      clearSearch);

searchInput.addEventListene

r('input', performSearch);

searchInput.addEventListener

('keypress', function(e) {      if

(e.key === 'Enter') {

e.preventDefault();

performSearch();

```

```

    }
});

});

</script>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>

</body>

</html>

```

### **Product\_Card.php**

```

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Product Cards | Inventory Management</title>

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

<link href="https://fonts.googleapis.com/css2?family=Inter:wght@400;500;600;700;800&display=swap" rel="stylesheet">

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css">

<style>

:root{--app-black:#000;--app-dark:#121212;--app-gray:#181818;--app-light-gray:#282828;--app-white:#FFF;--app-text-gray:#B3B3B3;--app-card-bg:rgba(24,24,24,0.8);--navbar-h:70px}

body{background:linear-gradient(180deg,var(--app-black) 0%,var(--app-dark) 100%)!important;color:var(--app-white)!important;font-family:'Inter',-apple-system,BlinkMacSystemFont,'Segoe UI',sans-serif:min-height:100vh;margin:0;padding:var(--navbar-h) 0 0}

```

```
.spotify-navbar{position:fixed;top:0;left:0;right:0;height:var(--navbar-h);background:linear-gradient(180deg,var(--app-black) 0%,var(--app-dark) 40%);backdrop-filter:blur(10px);border-bottom:1px solid rgba(255,255,255,0.08);padding:0 30px;z-index:1030;display:flex;align-items:center;gap:30px;box-shadow:0 4px 12px rgba(0,0,0,0.3)}
```

```
.spotify-logo{display:flex;align-items:center;gap:12px;padding:10px 16px;border-radius:12px;background:linear-gradient(135deg,rgba(255,255,255,0.15),rgba(255,255,255,0.05));border:1px solid rgba(255,255,255,0.2);text-decoration:none}
```

```
.spotify-logo i{color:var(--app-white);font-size:28px;filter:drop-shadow(0 2px 4px rgba(255,255,255,0.3))}
```

```
.logo-text{font-weight:800;font-size:20px;letter-spacing:-0.5px;background:linear-gradient(45deg,var(--app-white),var(--app-white));-webkit-background-clip:text;-webkit-text-fill-color:transparent;background-clip:text;line-height:1.2}
```

```
.logo-subtext{font-size:11px;color:var(--app-text-gray);font-weight:600;letter-spacing:0.5px}
```

```
.spotify-nav{display:flex;gap:10px;flex:1}
```

```
.nav-item{display:flex;align-items:center;gap:8px;padding:10px 18px;border-radius:25px;text-decoration:none;color:var(--app-text-gray);transition:all 0.2s;border:1px solid transparent;white-space:nowrap;font-size:14px;font-weight:600}
```

```
.nav-item i{font-size:18px}
```

```
.nav-item:hover{background:rgba(255,255,255,0.05);color:var(--app-white);border-color:rgba(255,255,255,0.1);transform:translateY(-2px)}
```

```
.nav-item.active{background:rgba(255,255,255,0.1);color:var(--app-white);border-color:rgba(255,255,255,0.3);font-weight:700}
```

```
.nav-item.active i{filter:drop-shadow(0 0 8px rgba(255,255,255,0.4))}
```

```
.navbar-spacer{flex:1}
```

```
.logout-btn{display:flex;align-items:center;gap:8px;padding:10px 18px;border-radius:25px;text-decoration:none;font-weight:700;font-size:14px;color:#ff6b6b;background:rgba(255,107,107,0.1);border:1px solid rgba(255,107,107,0.2);transition:all 0.3s}
```

```
.logout-btn:hover{background:rgba(255,107,107,0.2);color:#ff5252;transform:translateY(-2px);box-shadow:0 4px 12px rgba(255,107,107,0.2)}
```

```
.spotify-content{padding:30px;min-height:calc(100vh - var(--navbar-h))}
```

```
.content-header{margin-bottom:30px;padding-bottom:20px;border-bottom:1px solid rgba(255,255,255,0.1)}
```

```
.page-title{font-size:32px;font-weight:800;margin:0;background:linear-gradient(45deg,var(--app-white),var(--app-white));-webkit-background-clip:text;-webkit-text-fill-color:transparent;background-clip:text}

.page-subtitle{color:var(--app-text-gray);font-size:14px;font-weight:500;letter-spacing:0.5px}

.mobile-toggle{display:none;background:var(--app-white);border:none;border-radius:8px;width:40px;height:40px;align-items:center;justify-content:center;color:var(--app-black);font-weight:800;transition:all 0.3s}

.mobile-toggle:hover{transform:scale(1.05)}

.mobile-menu{display:none;position:fixed;top:var(--navbar-h);left:0;right:0;background:linear-gradient(180deg,var(--app-black) 0%,var(--app-dark) 40%);backdrop-filter:blur(10px);border-bottom:1px solid rgba(255,255,255,0.08);padding:20px;z-index:1020;box-shadow:0 4px 12px rgba(0,0,0,0.3)}

.mobile-menu.show{display:block}

.mobile-menu .spotify-nav{flex-direction:column}

.mobile-menu .logout-section{margin-top:15px;padding-top:15px;border-top:1px solid rgba(255,255,255,0.1)}

.spotify-card{background:linear-gradient(135deg,var(--app-card-bg),rgba(24,24,24,0.6));backdrop-filter:blur(10px);border:1px solid rgba(255,255,255,0.08);border-radius:16px;overflow:hidden;transition:all 0.3s;height:100%;position:relative;animation:fadeInUp 0.5s ease forwards}

.spotify-card:hover{transform:translateY(-8px);border-color:rgba(255,255,255,0.3);box-shadow:0 12px 24px rgba(0,0,0,0.5),0 0 0 1px rgba(255,255,255,0.2)}

.spotify-
card::before{content:"";position:absolute;top:0;left:0;right:0;height:4px;background:linear-gradient(90deg,var(--app-white),rgba(255,255,255,0.9));opacity:0.8}

.price-badge{background:linear-gradient(135deg,var(--app-white),rgba(255,255,255,0.8));color:var(--app-black);font-weight:800;font-size:14px;padding:6px 12px;border-radius:20px;border:2px solid rgba(255,255,255,0.2);box-shadow:0 2px 8px rgba(255,255,255,0.3)}

.product-name{font-size:18px;font-weight:700;color:var(--app-white);margin-bottom:8px;line-height:1.3}

.product-description{color:var(--app-text-gray);font-size:14px;line-height:1.5;min-height:42px;margin-bottom:20px}

.barcode-container{background:rgba(0,0,0,0.4);border:1px solid rgba(255,255,255,0.1);border-radius:12px;padding:16px;margin:20px 0;text-align:center}

.barcode-image{max-width:100%;height:auto;filter:invert(1)}
```

```
.product-id{color:var(--app-text-gray);font-size:12px;letter-spacing:1px;margin-top:8px;font-family:'Courier New',monospace}

.card-actions{display:flex;gap:12px;margin-top:20px}

.btn-spotify{flex:1;background:linear-gradient(135deg,var(--app-white),rgba(255,255,255,0.8));border:none;border-radius:50px;color:var(--app-black);font-weight:700;font-size:14px;padding:10px;transition:all 0.3s;display:flex;align-items:center;justify-content:center;gap:6px;text-decoration:none}

.btn-spotify:hover{transform:translateY(-2px);box-shadow:0 4px 12px rgba(255,255,255,0.4);color:var(--app-black)}

.btn-spotify.delete{background:linear-gradient(135deg,#ff6b6b,#ff5252)}

.btn-spotify.delete:hover{box-shadow:0 4px 12px rgba(255,107,107,0.4)}

.empty-state{background:rgba(24,24,24,0.8);border:2px dashed rgba(255,255,255,0.1);border-radius:16px;padding:40px 20px;text-align:center}

.empty-state i{font-size:48px;color:var(--app-text-gray);margin-bottom:16px}

.empty-state h4{color:var(--app-text-gray);font-weight:600;margin-bottom:8px}

@keyframes fadeInUp{from{opacity:0;transform:translateY(20px)}to{opacity:1;transform:translateY(0)}}

@media (max-width:991.98px){.spotify-navbar{padding:0 20px}.spotify-nav,.logout-section{display:none}.mobile-toggle{display:flex}.spotify-content{padding:20px}}

@media (max-width:768px){.page-title{font-size:24px}

.col-12:nth-child(1) .spotify-card{animation-delay:0.1s}.col-12:nth-child(2) .spotify-card{animation-delay:0.2s}.col-12:nth-child(3) .spotify-card{animation-delay:0.3s}.col-12:nth-child(4) .spotify-card{animation-delay:0.4s}.col-12:nth-child(5) .spotify-card{animation-delay:0.5s}.col-12:nth-child(6) .spotify-card{animation-delay:0.6s}

</style>

</head>

<body>

<nav class="spotify-navbar">

<a href=<?= base_url('/dashboard') ?>" class="spotify-logo"><i class="bi bi-box-seam"></i><div><div class="logo-text">Inventory</div><div class="logo-subtext">Product Management</div></div></a>

<div class="spotify-nav">

<a class="nav-item" href=<?= base_url('/dashboard') ?>"><i class="bi bi-table"></i><span>Products Table</span></a>
```

```

<a class="nav-item active" href="#"><?= base_url('products/cards') ?>><i class="bi bi-grid-3x3-gap-fill"></i><span>Product Cards</span></a>

<a class="nav-item" href="#"><?= base_url('product/productForm') ?>><i class="bi bi-plus-circle-fill"></i><span>Add Product</span></a>

</div>

<div class="navbar-spacer"></div>

<div class="logout-section"><a href="#"><?= base_url('/logout') ?>" class="logout-btn" onclick="return confirm('Are you sure you want to logout?');"><i class="bi bi-box-arrow-right"></i><span>Logout</span></a></div>

<button class="mobile-toggle" type="button" id="mobileToggle"><i class="bi bi-list"></i></button>

</nav>

<div class="mobile-menu" id="mobileMenu">

<nav class="spotify-nav">

<a class="nav-item" href="#"><?= base_url('/dashboard') ?>><i class="bi bi-table"></i><span>Products Table</span></a>

<a class="nav-item active" href="#"><?= base_url('products/card') ?>><i class="bi bi-grid-3x3-gap-fill"></i><span>Product Cards</span></a>

<a class="nav-item" href="#"><?= base_url('product/productForm') ?>><i class="bi bi-plus-circle-fill"></i><span>Add Product</span></a>

</nav>

<div class="logout-section"><a href="#"><?= base_url('/logout') ?>" class="logout-btn" onclick="return confirm('Are you sure you want to logout?');"><i class="bi bi-box-arrow-right"></i><span>Logout</span></a></div>

</div>

<main class="spotify-content"><div class="container-fluid">

<div class="content-header"><div class="d-flex align-items-center justify-content-between flex-wrap gap-3"><div><h1 class="page-title">Product Cards</h1><div class="page-subtitle"><i class="bi bi-music-note-list"></i> Total Products: <span class="text-success"><?= esc($totalProducts??0) ?></span></div></div></div></div>

<div class="row g-4">

<?php if(!empty($products)&&is_array($products)):foreach($products as $p):$productId=(string)($p['id']??'');$productName=$p['product_name']??'';$qrData='PRODUCT-' .str_pad($productId,6,'0',STR_PAD_LEFT).'|'.$productName;$qrUrl='https://api.qrserver.co

```

```

m/v1/create-qr-
code/?size=150x150&data='urlencode($qrData).'&bgcolor=000000&color=FFFFFF&margin=
10';?>

<div class="col-12 col-md-6 col-lg-4 col-xl-3"><div class="spotify-card p-4 h-100">

<div class="d-flex justify-content-between align-items-start mb-3"><div class="product-
name"><?= esc($p['product_name'])??"></div><span class="price-badge">₱ <?=
number_format((float)($p['price'])??.0),2)?></span></div>

<div class="product-description"><?= esc($p['description'])??'No description available'
?></div>

<div class="barcode-container">" class="barcode-image img-fluid" loading="lazy"
style="filter:none;border-radius:8px"><div class="product-id"><i class="bi bi-qr-code"></i>
SCAN ME · ID: <?= esc($productId) ?></div></div>

<div class="card-actions"><a href="<?= base_url('products/edit/'.$p['id']) ?>" class="btn-
spotify"><i class="bi bi-pencil"></i> Edit</a><a href="<?=
base_url('products/delete/'.$p['id']) ?>" class="btn-spotify delete" onclick="return
confirm('Are you sure you want to delete this product?');"><i class="bi bi-trash"></i>
Delete</a></div>

</div></div>

<?php endforeach;else:?
<div class="col-12"><div class="empty-state"><i class="bi bi-music-note-
beamed"></i><h4>No products found</h4><p class="text-muted">Add some products to
see them displayed here</p><a href="<?= base_url('product/productForm') ?>" class="btn-
spotify mt-3"><i class="bi bi-plus-circle"></i> Add First Product</a></div></div>

<?php endif;?>
</div>
</div></main>

<script>

document.addEventListener('DOMContentLoaded',function(){const
mobileMenu=document.getElementById('mobileMenu'),toggle=document.getElementById(
'mobileToggle');if(toggle){toggle.addEventListener('click',()=>{mobileMenu.classList.toggle('sh
ow');toggle.innerHTML=mobileMenu.classList.contains('show')?'<i class=\"bi bi-x-
lg\"></i>':'<i class=\"bi bi-
list\"></i>';});document.addEventListener('click',function(event){const
isMobile=window.innerWidth<=991.98;if(isMobile&&!mobileMenu.contains(event.target)&
!toggle.contains(event.target)){mobileMenu.classList.remove('show');toggle.innerHTML='<
i class=\"bi bi-list\"></i>';});const cards=document.querySelectorAll('.spotify-

```

```

card');cards.forEach(card=>{card.addEventListener('mouseenter',function(){this.style.transfo
rm='translateY(-8px)
scale(1.02)'});card.addEventListener('mouseleave',function(){this.style.transform='translateY
(0) scale(1)'});});const buttons=document.querySelectorAll('.btn-
spotify');buttons.forEach(button=>{button.addEventListener('click',function(e){if(this.classList
.contains('delete')){if(!confirm('Are you sure you want to delete this
product?')){e.preventDefault();return;}}const
originalHTML=this.innerHTML;this.innerHTML='<i class=\"bi bi-arrow-clockwise spin\"></i>
Loading...';this.disabled=true;setTimeout(()=>{this.innerHTML=originalHTML;this.disabled=f
alse;},2000);}});const
style=document.createElement('style');style.textContent=`@keyframes
spin{from{transform:rotate(0deg)}to{transform:rotate(360deg)}}.spin{animation:spin 1s
linear infinite;display:inline-block}`;document.head.appendChild(style);

</script>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></scrip
t>

</body>

</html>

```

```

.spotify-navbar{
position: fixed;
top: 0;
left: 0;
right: 0;
height: var(--navbar-h);
background: linear-gradient(180deg, var(--app-black) 0%, var(--app-dark) 40%);
backdrop-filter: blur(10px);
border-bottom: 1px solid rgba(255, 255, 255, 0.08);
padding: 0 30px;
z-index: 1030;
display: flex;
align-items: center;
gap: 30px;

```

```
    box-shadow: 0 4px 12px rgba(0, 0, 0, 0.3);  
}  
  
.spotify-logo {  
    display: flex;  
    align-items: center;  
    gap: 12px;  
    padding: 10px 16px;  
    border-radius: 12px;  
    background: linear-gradient(135deg, rgba(255, 255, 255, 0.15), rgba(255, 255, 255, 0.05));  
    border: 1px solid rgba(255, 255, 255, 0.2);  
    text-decoration: none;  
}  
  
.spotify-logo i {  
    color: var(--app-white);  
    font-size: 28px;  
    filter: drop-shadow(0 2px 4px rgba(255, 255, 255, 0.3));  
}  
  
.logo-text {  
    font-weight: 800;  
    font-size: 20px;  
    letter-spacing: -0.5px;  
    background: linear-gradient(45deg, var(--app-white), var(--app-white));  
    -webkit-background-clip: text;  
    -webkit-text-fill-color: transparent;  
    background-clip: text;  
    line-height: 1.2;
```

```
}
```

```
.logo-subtext {  
    font-size: 11px;  
    color: var(--app-text-gray);  
    font-weight: 600;  
    letter-spacing: 0.5px;  
}
```

```
.spotify-nav {  
    display: flex;  
    flex-direction: row;  
    gap: 10px;  
    flex: 1;  
}
```

```
.nav-item {  
    display: flex;  
    align-items: center;  
    gap: 8px;  
    padding: 10px 18px;  
    border-radius: 25px;  
    text-decoration: none;  
    color: var(--app-text-gray);  
    transition: all 0.2s ease;  
    border: 1px solid transparent;  
    white-space: nowrap;  
    font-size: 14px;  
    font-weight: 600;
```

```
}
```

```
.nav-item i {
```

```
  font-size: 18px;
```

```
}
```

```
.nav-item:hover {
```

```
  background: rgba(255, 255, 255, 0.05);
```

```
  color: var(--app-white);
```

```
  border-color: rgba(255, 255, 255, 0.1);
```

```
  transform: translateY(-2px);
```

```
}
```

```
.nav-item.active {
```

```
  background: rgba(255, 255, 255, 0.1);
```

```
  color: var(--app-white);
```

```
  border-color: rgba(255, 255, 255, 0.3);
```

```
  font-weight: 700;
```

```
}
```

```
.nav-item.active i {
```

```
  color: var(--app-white);
```

```
  filter: drop-shadow(0 0 8px rgba(255, 255, 255, 0.4));
```

```
}
```

```
.navbar-spacer {
```

```
  flex: 1;
```

```
}
```

```
.logout-section {  
    display: flex;  
    align-items: center;  
}  
  
.logout-btn {  
    display: flex;  
    align-items: center;  
    justify-content: center;  
    gap: 8px;  
    padding: 10px 18px;  
    border-radius: 25px;  
    text-decoration: none;  
    font-weight: 700;  
    font-size: 14px;  
    color: #ff6b6b;  
    background: rgba(255, 107, 107, 0.1);  
    border: 1px solid rgba(255, 107, 107, 0.2);  
    transition: all 0.3s ease;  
}  
  
.logout-btn:hover {  
    background: rgba(255, 107, 107, 0.2);  
    color: #ff5252;  
    transform: translateY(-2px);  
    box-shadow: 0 4px 12px rgba(255, 107, 107, 0.2);  
}  
  
/* Main Content */
```

```
.spotify-content {  
    padding: 30px;  
    min-height: calc(100vh - var(--navbar-h));  
}  
  
/* Header */  
.content-header {  
    margin-bottom: 30px;  
    padding-bottom: 20px;  
    border-bottom: 1px solid rgba(255, 255, 255, 0.1);  
}  
  
.page-title {  
    font-size: 32px;  
    font-weight: 800;  
    margin: 0;  
    background: linear-gradient(45deg, var(--app-white), var(--app-white));  
    -webkit-background-clip: text;  
    -webkit-text-fill-color: transparent;  
    background-clip: text;  
}  
  
.page-subtitle {  
    color: var(--app-text-gray);  
    font-size: 14px;  
    font-weight: 500;  
    letter-spacing: 0.5px;  
}
```

```
/* Mobile Toggle */

.mobile-toggle {
    display: none;
    background: var(--app-white);
    border: none;
    border-radius: 8px;
    width: 40px;
    height: 40px;
    align-items: center;
    justify-content: center;
    color: var(--app-black);
    font-weight: 800;
    transition: all 0.3s ease;
}

.mobile-toggle:hover {
    transform: scale(1.05);
    background: rgba(255, 255, 255, 0.9);
}

.mobile-menu {
    display: none;
    position: fixed;
    top: var(--navbar-h);
    left: 0;
    right: 0;
    background: linear-gradient(180deg, var(--app-black) 0%, var(--app-dark) 40%);
    backdrop-filter: blur(10px);
    border-bottom: 1px solid rgba(255, 255, 255, 0.08);
```

```
padding: 20px;  
z-index: 1020;  
box-shadow: 0 4px 12px rgba(0, 0, 0, 0.3);  
}
```

```
.mobile-menu.show {  
display: block;  
}
```

```
.mobile-menu .spotify-nav {  
flex-direction: column;  
}
```

```
.mobile-menu .logout-section {  
margin-top: 15px;  
padding-top: 15px;  
border-top: 1px solid rgba(255, 255, 255, 0.1);  
}
```

```
/* Product Cards - Spotify Style */
```

```
.spotify-card {  
background: linear-gradient(135deg, var(--app-card-bg), rgba(24, 24, 24, 0.6));  
backdrop-filter: blur(10px);  
border: 1px solid rgba(255, 255, 255, 0.08);  
border-radius: 16px;  
overflow: hidden;  
transition: all 0.3s ease;  
height: 100%;  
position: relative;
```

```
}
```

```
.spotify-card:hover {  
    transform: translateY(-8px);  
    border-color: rgba(255, 255, 255, 0.3);  
    box-shadow:  
        0 12px 24px rgba(0, 0, 0, 0.5),  
        0 0 0 1px rgba(255, 255, 255, 0.2);  
}
```

```
.spotify-card::before {  
    content: " ";  
    position: absolute;  
    top: 0;  
    left: 0;  
    right: 0;  
    height: 4px;  
    background: linear-gradient(90deg, var(--app-white), rgba(255, 255, 255, 0.9));  
    opacity: 0.8;  
}
```

```
.price-badge {  
    background: linear-gradient(135deg, var(--app-white), rgba(255, 255, 255, 0.8));  
    color: var(--app-black);  
    font-weight: 800;  
    font-size: 14px;  
    padding: 6px 12px;  
    border-radius: 20px;  
    border: 2px solid rgba(255, 255, 255, 0.2);
```

```
    box-shadow: 0 2px 8px rgba(255, 255, 255, 0.3);  
}  
  
}
```

```
.product-name {  
    font-size: 18px;  
    font-weight: 700;  
    color: var(--app-white);  
    margin-bottom: 8px;  
    line-height: 1.3;  
}
```

```
.product-description {  
    color: var(--app-text-gray);  
    font-size: 14px;  
    line-height: 1.5;  
    min-height: 42px;  
    margin-bottom: 20px;  
}
```

```
/* Barcode Section */  
.barcode-container {  
    background: rgba(0, 0, 0, 0.4);  
    border: 1px solid rgba(255, 255, 255, 0.1);  
    border-radius: 12px;  
    padding: 16px;  
    margin: 20px 0;  
    text-align: center;  
}
```

```
.barcode-image {  
    max-width: 100%;  
    height: auto;  
    filter: invert(1);  
}  
  
.product-id {  
    color: var(--app-text-gray);  
    font-size: 12px;  
    letter-spacing: 1px;  
    margin-top: 8px;  
    font-family: 'Courier New', monospace;  
}  
  
/* Action Buttons */  
.card-actions {  
    display: flex;  
    gap: 12px;  
    margin-top: 20px;  
}  
  
.btn-spotify {  
    flex: 1;  
    background: linear-gradient(135deg, var(--app-white), rgba(255, 255, 255, 0.8));  
    border: none;  
    border-radius: 50px;  
    color: var(--app-black);  
    font-weight: 700;  
    font-size: 14px;
```

```
padding: 10px;  
transition: all 0.3s ease;  
display: flex;  
align-items: center;  
justify-content: center;  
gap: 6px;  
text-decoration: none;  
}  
  
.btn-spotify:hover {  
transform: translateY(-2px);  
box-shadow: 0 4px 12px rgba(255, 255, 255, 0.4);  
color: var(--app-black);  
}  
  
.btn-spotify.delete {  
background: linear-gradient(135deg, #ff6b6b, #ff5252);  
}  
  
.btn-spotify.delete:hover {  
box-shadow: 0 4px 12px rgba(255, 107, 107, 0.4);  
}  
  
/* Empty State */  
.empty-state {  
background: rgba(24, 24, 24, 0.8);  
border: 2px dashed rgba(255, 255, 255, 0.1);  
border-radius: 16px;  
padding: 40px 20px;
```

```
text-align: center;  
}  
  
.empty-state i {  
font-size: 48px;  
color: var(--app-text-gray);  
margin-bottom: 16px;  
}  
  
.empty-state h4 {  
color: var(--app-text-gray);  
font-weight: 600;  
margin-bottom: 8px;  
}  
  
/* Responsive Design */  
@media (max-width: 991.98px) {  
.spotify-navbar {  
padding: 0 20px;  
}  
  
.spotify-nav,  
.logout-section {  
display: none;  
}  
  
.mobile-toggle {  
display: flex;  
}
```

```
.spotify-content {  
    padding: 20px;  
}  
  
}  
  
@media (max-width: 768px) {  
    .page-title {  
        font-size: 24px;  
    }  
}  
  
/* Grid Layout */  
.  
.row.g-4 {  
    --bs-gutter-x: 1.5rem;  
    --bs-gutter-y: 1.5rem;  
}  
  
/* Animation for cards */  
@keyframes fadeInUp {  
    from {  
        opacity: 0;  
        transform: translateY(20px);  
    }  
    to {  
        opacity: 1;  
        transform: translateY(0);  
    }  
}
```

```
.spotify-card {  
    animation: fadeInUp 0.5s ease forwards;  
}  
  
/* Stagger animation for cards */  
.col-12:nth-child(1) .spotify-card{animation-delay:0.1s}.col-12:nth-child(2) .spotify-  
card{animation-delay:0.2s}.col-12:nth-child(3) .spotify-card{animation-delay:0.3s}.col-  
12:nth-child(4) .spotify-card{animation-delay:0.4s}.col-12:nth-child(5) .spotify-  
card{animation-delay:0.5s}.col-12:nth-child(6) .spotify-card{animation-delay:0.6s}  
  
</style>  
</head>  
  
<body>  
    <!-- Spotify Navbar -->  
    <nav class="spotify-navbar">  
        <a href="= base_url('/dashboard') ?" class="spotify-logo">  
            <i class="bi bi-box-seam"></i>  
            <div>  
                <div class="logo-text">Inventory</div>  
                <div class="logo-subtext">Product Management</div>  
            </div>  
        </a>  
  
        <div class="spotify-nav">  
            <a class="nav-item" href="= base_url('/dashboard') ?">  
                <i class="bi bi-table"></i>  
                <span>Products Table</span>  
            </a>  
        </div>  
    </nav>  
</body>
```

```
<a class="nav-item active" href="#">= base_url('products/cards')?>>
  <i class="bi bi-grid-3x3-gap-fill"></i>
  <span>Product Cards</span>
</a>

<a class="nav-item" href="#">= base_url('product/productForm')?>>
  <i class="bi bi-plus-circle-fill"></i>
  <span>Add Product</span>
</a>
</div>

<div class="navbar-spacer"></div>

<div class="logout-section">
  <a href="#">= base_url('/logout')?>">
    class="logout-btn"
    onclick="return confirm('Are you sure you want to logout?');">
      <i class="bi bi-box-arrow-right"></i>
      <span>Logout</span>
    </a>
</div>

<button class="mobile-toggle" type="button" id="mobileToggle">
  <i class="bi bi-list"></i>
</button>
</nav>

<!-- Mobile Menu -->
<div class="mobile-menu" id="mobileMenu">
```

```
<nav class="spotify-nav">

  <a class="nav-item" href="= base_url('/dashboard') ?&gt;"&gt;
    &lt;i class="bi bi-table"&gt;&lt;/i&gt;
    &lt;span&gt;Products Table&lt;/span&gt;
  &lt;/a&gt;

  &lt;a class="nav-item active" href="<?= base_url('products/card') ?&gt;"&gt;
    &lt;i class="bi bi-grid-3x3-gap-fill"&gt;&lt;/i&gt;
    &lt;span&gt;Product Cards&lt;/span&gt;
  &lt;/a&gt;

  &lt;a class="nav-item" href="<?= base_url('product/productForm') ?&gt;"&gt;
    &lt;i class="bi bi-plus-circle-fill"&gt;&lt;/i&gt;
    &lt;span&gt;Add Product&lt;/span&gt;
  &lt;/a&gt;
&lt;/nav&gt;

&lt;div class="logout-section"&gt;
  &lt;a href="<?= base_url('/logout') ?&gt;"&gt;
    class="logout-btn"
    onclick="return confirm('Are you sure you want to logout?');"
    &lt;i class="bi bi-box-arrow-right"&gt;&lt;/i&gt;
    &lt;span&gt;Logout&lt;/span&gt;
  &lt;/a&gt;
&lt;/div&gt;
&lt;/div&gt;

&lt;!-- Main Content --&gt;
&lt;main class="spotify-content"&gt;</pre
```

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

<!-- Header -->

<div class="content-header">
  <div class="d-flex align-items-center justify-content-between flex-wrap gap-3">
    <div>
      <h1 class="page-title">Product Cards</h1>
      <div class="page-subtitle">
        <i class="bi bi-music-note-list"></i>
        Total Products: <span class="text-success"><?= esc($totalProducts ?? 0) ?></span>
      </div>
    </div>
    </div>
  </div>
</div>

<!-- Product Cards Grid -->
<div class="row g-4">
  <?php if (!empty($products) && is_array($products)): ?>
  <?php foreach ($products as $p): ?>
  <?php
    $productId = (string)($p['id'] ?? '');
    $productName = $p['product_name'] ?? '';
    // QR Code API - Scannable with any phone camera
    $qrData = 'PRODUCT-' . str_pad($productId, 6, '0', STR_PAD_LEFT) . '|' . $productName;
    $qrUrl = 'https://api.qrserver.com/v1/create-qr-code/' .
      '?size=150x150' .
      '&data=' . urlencode($qrData) .
      '&bgcolor=000000' .
      '&color=FFFFFF' .
      '&margin=10';
  <?php
  </?php foreach ($products as $p): ?>
  <?php if (!empty($products)): ?>
    <div class="col-4">
      <div class="card">
        
        <div class="card-body">
          <h4 class="card-title">$productName
          <p class="card-text">$productId
        </div>
      </div>
    </div>
  <?php else: ?>
    <div class="col-12 text-center">
      <h3>No products found.
    </div>
  <?php endif; ?>
</div>
```

```
?>

<div class="col-12 col-md-6 col-lg-4 col-xl-3">
  <div class="spotify-card p-4 h-100">
    <!-- Price Badge -->
    <div class="d-flex justify-content-between align-items-start mb-3">
      <div class="product-name"><?= esc($p['product_name']) ?? "" ?></div>
      <span class="price-badge">
        ₪ <?= number_format((float)($p['price']) ?? 0), 2) ?>
      </span>
    </div>

    <!-- Description -->
    <div class="product-description">
      <?= esc($p['description']) ?? 'No description available' ?>
    </div>

    <!-- QR Code -->
    <div class="barcode-container">
      "
        class="barcode-image img-fluid"
        loading="lazy"
        style="filter: none; border-radius: 8px;">
    <
      <div class="product-id">
        <i class="bi bi-qr-code"></i> SCAN ME · ID: <?= esc($productId) ?>
      </div>
    </div>
  </div>
```

```
<!-- Action Buttons -->

<div class="card-actions">

    <a href="= base_url('products/edit/' . $p['id']) ?&gt;" class="btn-spotify"&gt;
        &lt;i class="bi bi-pencil"&gt;&lt;/i&gt; Edit
    &lt;/a&gt;

    &lt;a href="<?= base_url('products/delete/' . $p['id']) ?&gt;" class="btn-spotify delete"
        onclick="return confirm('Are you sure you want to delete this product?');"&gt;
        &lt;i class="bi bi-trash"&gt;&lt;/i&gt; Delete
    &lt;/a&gt;
&lt;/div&gt;
&lt;/div&gt;
&lt;/div&gt;

&lt;?php endforeach; ?&gt;

&lt;?php else: ?&gt;

    &lt;div class="col-12"&gt;
        &lt;div class="empty-state"&gt;
            &lt;i class="bi bi-music-note-beamed"&gt;&lt;/i&gt;
            &lt;h4&gt;No products found&lt;/h4&gt;
            &lt;p class="text-muted"&gt;Add some products to see them displayed here&lt;/p&gt;
            &lt;a href="<?= base_url('product/productForm') ?&gt;" class="btn-spotify mt-3"&gt;
                &lt;i class="bi bi-plus-circle"&gt;&lt;/i&gt; Add First Product
            &lt;/a&gt;
        &lt;/div&gt;
    &lt;/div&gt;
&lt;?php endif; ?&gt;

&lt;/div&gt;
&lt;/div&gt;</pre
```

```
</main>

<script>
document.addEventListener('DOMContentLoaded', function () {
  const mobileMenu = document.getElementById('mobileMenu');
  const toggle = document.getElementById('mobileToggle');

  // Toggle mobile menu
  if (toggle) {
    toggle.addEventListener('click', () => {
      mobileMenu.classList.toggle('show');
      toggle.innerHTML = mobileMenu.classList.contains('show')
        ? '<i class="bi bi-x-lg"></i>'
        : '<i class="bi bi-list"></i>';
    });
  }

  // Close mobile menu when clicking outside
  document.addEventListener('click', function (event) {
    const isMobile = window.innerWidth <= 991.98;
    if (isMobile && !mobileMenu.contains(event.target) && !toggle.contains(event.target)) {
      mobileMenu.classList.remove('show');
      toggle.innerHTML = '<i class="bi bi-list"></i>';
    }
  });
}

// Card hover effects
const cards = document.querySelectorAll('.spotify-card');
cards.forEach(card => {
```

```
card.addEventListener('mouseenter', function () {
  this.style.transform = 'translateY(-8px) scale(1.02)';
});

card.addEventListener('mouseleave', function () {
  this.style.transform = 'translateY(0) scale(1)';
});

// Add loading state to buttons
const buttons = document.querySelectorAll('.btn-spotify');
buttons.forEach(button => {
  button.addEventListener('click', function (e) {
    if (this.classList.contains('delete')) {
      if (!confirm('Are you sure you want to delete this product?')) {
        e.preventDefault();
        return;
      }
    }
  })
}

// Add loading spinner
const originalHTML = this.innerHTML;
this.innerHTML = '<i class="bi bi-arrow-clockwise spin"></i> Loading...';
this.disabled = true;

// Revert after 2 seconds (in case page doesn't navigate)
setTimeout(() => {
  this.innerHTML = originalHTML;
  this.disabled = false;
})
```

```

    }, 2000);

});

// Add CSS for spinner
const style = document.createElement('style');
style.textContent = `
  @keyframes spin {
    from { transform: rotate(0deg); }
    to { transform: rotate(360deg); }
  }
  .spin {
    animation: spin 1s linear infinite;
    display: inline-block;
  }
`;
document.head.appendChild(style);
});

</script>

```

```

<!-- Bootstrap Bundle with Popper -->
<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</body>
</html>

```

### **Edit\_Product.php**

```

<!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@5.3.2/dist/css/bootstrap.min.
css" rel="stylesheet">

<link href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.0.0/css/all.min.css" rel="stylesheet">

<link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.11.3/font/bootstrap-icons.min.css"> <style>

/* Green theme matching Product_View palette */

body {

background:
#e8f5e9
!important;

color: #1b5e20
!important; min-
height: 100vh;

display: flex;

align-items:
center; justify-
content: center;

}

.form-
containe
```

```
r { max-width: 500px; width: 100%; margin: 20px auto; }
```

```
.card { border: 2px solid #43a047 !important; border-radius: 20px !important; box-shadow: 0 10px 30px rgba(67, 160, 71, 0.15) !important; background: #fff !important; overflow: hidden; }
```

```
.card-header { background: linear-gradient(135deg, #a5d6a7 0%, #66bb6a 100%) !important; color: #1b5e20 !important; font-weight: bold; text-transform: uppercase; letter-spacing:
```

```
1px; padding: 1.5rem; border-
bottom: none !important;
}
```

```
.card-body {
```

```
background:
```

```
#fff
```

```
!important;
```

```
padding: 2rem
```

```
!important;
```

```
}
```

```
.form-label
```

```
{ color:
```

```
#1b5e20
```

```
!important;
```

```
font-weight:
```

```
600; text-
```

```
transform:
```

```
uppercase;
```

```
letter-
```

```
spacing:
```

```
0.5px;
```

```
font-size:
```

```
0.9rem;
```

```
}
```

```
.form-control {  
    border: 2px solid  
    #a5d6a7  
    !important;  
    border-radius: 8px  
    !important;  
    padding: 0.75rem  
    1rem; transition:  
    all 0.3s ease;  
}
```

```
.form-control:focus { border-  
    color: #43a047 !important;  
    box-shadow: 0 0 0 0.2rem  
    rgba(56, 142, 60, 0.25)  
    !important; transform:  
    translateY(-1px);  
}
```

```
.btn {  
    font-weight:  
    bold; text-  
    transform:  
    uppercase;
```

```
letter-spacing:  
1px;  
padding:  
0.75rem  
1.5rem;  
border-radius:  
8px !important;  
transition: all  
0.3s ease;  
}  
  
.btn-green, .btn-outline-  
success, .btn-outline-primary  
{ background: #43a047  
!important; color: #fff  
!important; border-color:  
#388e3c !important;  
}  
  
.btn-green:hover, .btn-outline-  
success:hover, .btn-outline-  
primary:hover { background:  
#388e3c !important; border-color:  
#2e7d32 !important; color: #fff  
!important; transform: translateY(-
```

```
2px);    box-shadow: 0 5px 15px  
rgba(67, 160, 71, 0.3) !important;  
}
```

```
.btn-outline-  
secondary {  
background:  
transparent  
!important;  
color: #388e3c  
!important;  
border: 2px solid  
#a5d6a7  
!important;  
}
```

```
.btn-outline-  
secondary:hover {  
background:  
#a5d6a7  
!important; color:  
#1b5e20  
!important;  
border-color:  
#a5d6a7
```

```
!important;  
transform:  
translateY(-2px);  
}
```

```
.fas, .fa, .bi {  
margin-  
right:  
0.5rem;  
color:  
inherit  
!important;  
}
```

```
h4 {  
margin: 0  
!importan  
t; font-  
size:  
1.25rem;  
}
```

```
.table-green th {  
background-color:  
#a5d6a7 !important;
```

```
color: #1b5e20
!important;
}

</style>
</head>

<body class="bg-light">

<div class="container mt-5">
    <div class="form-container">
        <div class="card shadow-sm">
            <div class="card-header">
                <h4 class="mb-0"><i class="fas fa-edit me-2"></i>Edit Product</h4>
            </div>
            <div class="card-body">
                <form action=<?= base_url('products/update/'.$product['id']) ?>" method="post">
                    <?= csrf_field() ?>

                    <div class="mb-3">
                        <label for="product_name" class="form-label"><i class="bi bi-tag me-2"></i>Product Name</label>
                        <input type="text" name="product_name" id="product_name" class="form-control" value="<?= esc($product['product_name']) ?>" required>
                    </div>
                </form>
            </div>
        </div>
    </div>
</div>
```

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

    <label for="description" class="form-label"><i class="bi bi-file-text me-2"></i>Description</label>

    <textarea name="description" id="description" class="form-control" rows="3"><?= esc($product['description']) ?></textarea>  </div>

    <div class="mb-3">

        <label for="price" class="form-label"><i class="bi bi-currency-dollar me-2"></i>Price (₱)</label>

        <input type="number" step="0.01" name="price" id="price" class="form-control" value="<?= esc($product['price']) ?>" required>

    </div>

    <div class="d-flex justify-content-between">

        <a href="<?= site_url('/dashboard') ?>" class="btn btn-outline-secondary"><i class="bi bi-arrow-left me-2"></i>Back</a>

        <button type="submit" class="btn btn-outline-primary"><i class="bi bi-arrow-repeat me-2"></i>Update Product</button>

    </div>

</form>

</div>

</div>

</div>

</body>
```

```
</html>
```

### Add\_Product.php:

```
<!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@5.3.2/dist/css/bootstrap.min.css"
  rel="stylesheet">
<link href="https://cdn.jsdelivr.net/npm/@fontawesome/fontawesome@6.0.0/css/all.min.css" rel="stylesheet">
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.11.3/font/bootstrap-icons.min.css">

<style>
:root{
  --green-700:#2e7d32;
  --green-600:#388e3c;
  --green-500:#43a047;
  --green-100:#eaf6ec;

  --border:#e9ecef;
  --text:#1f2937;
  --muted:#6b7280;
  --sidebar-w: 270px;
}
```

```
body{  
background:  
#e8f5e9  
!important;  
color: #1b5e20  
!important;  
min-height:  
100vh;  
}  
  
/* ====== Sidebar ====== */
```

```
.sideb  
ar{  
positi  
on:  
fixed;  
top: 0;  
left: 0;  
height: 100vh;  
width: var(--  
sidebar-w);  
background: #fff;  
border-right: 1px  
solid var(--border);
```

```
padding: 18px  
16px;    z-index:  
1030;    display:  
flex;    flex-  
direction: column;  
gap: 14px;  
}  
  
.sidebar-brand{    display:flex;    align-  
items:center;    gap:10px;    padding: 10px 10px;  
border-radius: 14px;    background: linear-  
gradient(135deg, rgba(234,246,236,.95) 0%,  
rgba(200,230,201,.7) 100%);    border: 1px solid  
rgba(56,142,60,.22);    color:#0f3d18;    font-  
weight: 800;    letter-spacing:.2px;  
}  
.sidebar-brand i{ color: var(--green-700); font-size: 1.2rem; }  
  
.sidebar-  
nav{  
margin-  
top: 6px;  
display:fl  
ex; flex-  
direction:
```

```
column;  
gap: 6px;  
}  
  
.sidebar-link{ display:flex; align-items:center; gap:10px; padding:10px 12px; border-radius: 12px; text-decoration: none; color: var(--text); border: 1px solid transparent; transition: background .12s ease, border-color .12s ease, transform .12s ease; }  
.sidebar-link i{ color: var(--green-700); }  
.sidebar-link: hover{ background: rgba(234,246,236,.75); border-color: rgba(56,142,60,.2); color: rgba(56,142,60,.2); transform: translateY(-1px); }  
.sidebar-link: active{
```

```
background:  
rgba(234,246,236  
.9); border-  
color:  
rgba(56,142,60,.2  
8); font-  
weight: 700;  
}
```

```
.sidebar-spacer{ flex: 1; }
```

```
.sidebar-logout{  
border-top: 1px  
solid var(--  
border);  
padding-top:  
12px;  
}
```

```
.logout-  
link{  
display:fle  
x; align-  
items:cent  
er;  
justify-
```

content:ce

nter;

gap:10px;

padding:

10px 12px;

border-

radius:

12px; text-

decoration

:none;

font-

weight:

800;

color:#b42

318;

border:

1px solid

rgba(180,3

5,24,.18);

background

d:

rgba(180,3

5,24,.04);

transition:

```
transform  
.12s ease,  
box-  
shadow  
.12s ease;  
}  
.logout-link:hover{  
transform: translateY(-  
1px);    box-shadow: 0  
10px 18px  
rgba(180,35,24,.10);  
}  
  
/* Main content offset for sidebar */  
.content{  
margin-left:  
var(--sidebar-  
w);  
padding: 18px  
18px 30px;  
min-height:  
100vh;  
}
```

```
/* Mobile: collapse sidebar */
.sidebar-.toggle{
    display:none;
    position: fixed;    top:
    14px;    left: 14px;
    z-index: 1040;
    border-radius: 12px
    !important;    box-
    shadow: 0 10px 18px
    rgba(16,24,40,.10);
}

@media (max-width: 991.98px){
    :root{ --sidebar-w: 280px; }

    .sidebar{
        transform:
        translateX(-
        105%);
        transition:
        transform .18s
        ease;
    }
}
```

```
.sidebar.sh

ow{
    transform:
    translateX(
        0);
}

.content{ margin-
    left: 0; padding-
    top: 64px; /* space
for toggle */

}

.sidebar-toggle{ display:inline-flex; }

/*
===== Your form styles =====
.form-
container

{ max-
width:
520px;

width:
100%;

margin:
20px

auto;
```

```
}
```

```
.card {  
    border: 2px solid #43a047  
    !important;  
    border-radius:  
        20px !important;  
    box-  
        shadow: 0 10px 30px rgba(67,  
        160, 71, 0.15) !important;  
    background: #fff !important;  
    overflow: hidden;  
}
```

```
.card-header {  
    background: linear-  
        gradient(135deg, #a5d6a7 0%, #66bb6a  
        100%) !important;  
    color: #1b5e20  
    !important;  
    font-weight: bold;  
    text-  
        transform: uppercase;  
    letter-spacing:  
        1px;  
    padding: 1.5rem;  
    border-  
        bottom: none !important;  
}
```

```
.card-body { background: #fff !important; padding: 2rem !important; }
```

```
.form-  
label{  
    color:#1b5e2
```

```
0 !important;  
  
font-weight:  
600; text-  
  
transform:  
  
uppercase;  
  
letter-  
  
spacing:  
.5px; font-  
  
size: .9rem;  
  
}
```

```
.form-control{  
  
border:2px solid  
#a5d6a7  
  
!important;  
  
border-radius:8px  
  
!important;  
  
padding:.75rem  
  
1rem;  
  
transition: all .3s ease;  
  
}  
  
.form-control:focus{ border-  
  
color:#43a047 !important;  
  
box-shadow: 0 0 0 .2rem  
  
rgba(56, 142, 60, 0.25)
```

```
!important; transform:  
translateY(-1px);  
}  
  
.btn{ font-  
weight:bold;  
text-transform:  
uppercase;  
letter-spacing:  
1px;  
padding:.75re  
m 1.5rem;  
border-radius:  
8px !important;  
transition: all  
.3s ease;  
}
```

```
.btn-green{  
background:#43a  
047 !important;  
color:#fff  
!important;  
border-  
color:#388e3c  
!important;
```

```
}

.btn-green:hover{

background:#388e3c !important; border-
color:#2e7d32 !important;

transform: translateY(-2px);

box-shadow: 0 5px 15px

rgba(67, 160, 71, 0.3)

!important;

}
```

```
.btn-outline-
secondary{

background:transpa
rent !important;

color:#388e3c

!important;

border:2px solid

#a5d6a7

!important;

}

.btn-outline-
secondary:hover{

background:#a5d6a7

!important;
```

```
color:#1b5e20
!important; border-
color:#a5d6a7
!important;
transform: translateY(-
2px);
}

.fas, .fa, .bi{ color: inherit !important; }
h4{ margin:0 !important; font-size:1.25rem; }
</style>
</head>

<body>

<!-- Mobile toggle -->
<button class="btn btn-success sidebar-toggle" type="button"
id="sidebarToggle">
<i class="bi bi-list"></i>
</button>

<!-- Sidebar -->
<aside class="sidebar" id="sidebar">
<div class="sidebar-brand">
<i class="bi bi-bag-check"></i>
<div>
<div style="line-height:1;">Inventory</div>
```

```
<div class="small" style="font-weight:600; opacity:.85;">Product  
Management</div>  
</div>  
</div>  
  
<nav class="sidebar-nav">  
  <a class="sidebar-link" href="= base_url('/dashboard') ?&gt;"&gt;<br/    <i class="bi bi-box-seam"></i>  
    <span>Products (Table)</span>  
  </a>  
  
  <a class="sidebar-link" href="= base_url('products/cards') ?&gt;"&gt;<br/    <i class="bi bi-grid-3x3-gap"></i>  
    <span>Product Cards</span>  
  </a>  
  
  <a class="sidebar-link active" href="= base_url('product/productForm') ?&gt;"&gt;<br/    <i class="bi bi-plus-circle"></i><span>Add Product</span>  
  </a>  
</nav>  
  
<div class="sidebar-spacer"></div>  
  
<div class="sidebar-logout">  <a  
  href="= base_url('/logout') ?&gt;"<br/  class="logout-link"  
  onclick="return confirm('Are you  
sure you want to logout?');">    <i  
    class="bi bi-box-arrow-right"></i>
```

```
<span>Logout</span>
</a>
</div>
</aside>

<!-- Main Content --&gt;
&lt;main class="content"&gt;
    &lt;div class="container mt-3 mt-lg-5"&gt;
        &lt;div class="form-container"&gt;
            &lt;div class="card shadow-sm"&gt;
                &lt;div class="card-header"&gt;
                    &lt;h4 class="mb-0"&gt;&lt;i class="fas fa-plus-circle me-2"&gt;&lt;/i&gt;Add
Product&lt;/h4&gt;
                &lt;/div&gt;
                &lt;div class="card-body"&gt;
                    &lt;form action="<? site_url('products/store') ?>" method="post">
                        <?= csrf_field() ?>
                        <div class="mb-3">
                            <label for="product_name" class="form-label"><i class="bi bi-tag me-2"></i>Product Name</label>
                            <input type="text" name="product_name" id="product_name"
class="form-control" required>
                        </div>
                        <div class="mb-3">
                            <label for="description" class="form-label"><i class="bi bi-file-text me-2"></i>Description</label>
                            <textarea name="description" id="description" class="form-control"
rows="3"></textarea>
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
</main>
```

```
</div>

<div class="mb-3">
    <label for="price" class="form-label"><i class="bi bi-currency-dollar me-2"></i>Price (₱)</label>
    <input type="number" step="0.01" name="price" id="price" class="form-control" required>
</div>

<div class="d-flex justify-content-between">
    <a href="= site_url('/dashboard') ?" class="btn btn-outline-secondary">
        <i class="bi bi-arrow-left me-2"></i>Back
    </a>
    <button type="submit" class="btn btn-green">
        <i class="bi bi-check-circle me-2"></i>Save Product
    </button>
</div>
</form>
</div>
</div>
</div>
</div>
</main>

<script>
document.addEventListener('DOMContentLoaded'
    oaded', function () {    const sidebar =
        document.getElementById('sidebar');
```

```
const toggle =  
  document.getElementById('sidebarToggle');  
  
if (toggle) toggle.addEventListener('click', ()  
  => sidebar.classList.toggle('show'));  
  
});  
  
</script>  
  
  


```
<script  
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.  
min.js"></script>  
  
</body>  
  
</html>
```


```

**Models:**

**UserMod**

**el.php**

<?php

namespac

e

App\Mod

els;

use CodeIgniter\Model;

class UserModel extends Model

{

protected \$table

= 'users';

protected

\$primaryKey =

'id';

protected \$allowedFields = ['username', 'password'];

// Method to check

user credentials

public function

```
checkUser($username  
e)  
{  
return $this->where('username', $username)->first();  
}  
  
// Hash password  
using bcrypt public  
function  
hashPassword($pass  
word)  
{  
return password_hash($password, PASSWORD_BCRYPT);  
}  
}
```

### **ProductModel.php:** <?php

```
namespace App\Models; use  
CodeIgniter\Model; class  
ProductModel extends Model {  
protected $table = 'products';  
protected $primaryKey = 'id';  
protected $allowedFields =
```

```
['product_name', 'description',
```

```
'price');
```

```
// Createa public
```

```
function
```

```
createProduct($d
```

```
ata) { return
```

```
$this-
```

```
>insert($data);
```

```
}
```

```
// Read public
```

```
function
```

```
getProduct($id
```

```
) { return
```

```
$this-
```

```
>find($id);
```

```
}
```

```
// Update public
```

```
function
```

```
updateProduct($id,
```

```
$data) { return $this-
```

```
>update($id, $data);
```

```
}
```

```
// Delete public  
  
function  
  
deleteProduct($i  
d) { return $this->  
delete($id);  
  
}  
}
```

**ProductController.php:**

```
<?php  
  
namespace App\Controllers;  
  
use App\Models\ProductModel;  
  
class ProductController extends BaseController  
{  
    public function index()  
    {  
        $model = new ProductModel();  
  
        // Get the current page from the URL (default to 1 if not specified)  
        $page = $this->request->getGet('page') ?? 1;  
        $perPage = 5; // 5 items per page  
  
        // Calculate offset
```

```

$offset = ($page - 1) * $perPage;

// Get products with pagination
$data['products'] = $model->findAll($perPage, $offset);

// Get total count for pagination calculation
$data['totalProducts'] = $model->countAll();
$data['currentPage'] = $page;
$data['perPage'] = $perPage;
$data['totalPages'] = ceil($data['totalProducts'] / $perPage);

return view('product_view', $data);
}

public function cards(){

$model = new ProductModel();

// "all the cards" = show all products
$data['products'] = $model->findAll();
$data['totalProducts'] = $model->countAll();

return view('product_card', $data);
}

public function add(){

return view('add_product');
}

public function editForm($id)

```

```
{  
    $model = new  
    ProductModel();  
  
    $data['product'] =  
    $model->  
    getProduct($id);  
  
    return  
    view('edit_product',  
    $data);  
}  
  
  
public function create()  
{  
    $model = new ProductModel();  
  
    $data = [  
        'product_name' => $this->request->getPost('product_name'),  
        'description' => $this->request->getPost('description'),  
        'price' => $this->request->getPost('price')  
    ];  
  
    $model->createProduct($data);  
  
    session()->set_flashdata('message',  
    'Product created successfully!');  
  
    return redirect()->to('/dashboard');
```

```
    } public

function

edit($id)

{

$model = new

ProductModel();

$data['product'] =


$model-

>getProduct($id);

return

view('edit_product',


$data);

}

public function update($id)

{

$model = new ProductModel();

$data = [


'product_name' => $this->request->getPost('product_name'),


'description' => $this->request->getPost('description'),


'price' => $this->request->getPost('price')


];

$model->updateProduct($id,


$data); session()->setflashdata('message', 'Product
```

```
updated successfully!');      return  
  
redirect()->to('/dashboard');  
  
}  
  
public function delete($id)  
  
{  
  
    $model = new ProductModel();  
  
    $model->deleteProduct($id);  
  
    session()->setflashdata('message',  
        'Product deleted successfully!');  
  
    return redirect()->to('/dashboard');  
  
}  
  
}
```

### **Home.php**

```
<?php  
  
namespace App\Controllers;  
  
class Home extends BaseController  
  
{ public  
  
    function  
  
    index():  
  
        string  
  
    {
```

```
        return view('welcome_message');

    }

}
```

### **BaseController.php**

```
<?php

namespace App\Controllers;

use

CodeIgniter\Control

ler; use

CodeIgniter\HTTP\C

LIRequest; use

CodeIgniter\HTTP\I

ncomingRequest;

use

CodeIgniter\HTTP\R

equestInterface; use

CodeIgniter\HTTP\R

esponseInterface;

use

Psr\Log\LoggerInter

face;
```

```
/**  
 * Class BaseController  
 *  
 * BaseController provides a convenient place for loading components  
 * and performing functions that are needed by all your controllers.  
 * Extend this class in any new controllers:  
 * class Home extends BaseController  
 *  
 * For security be sure to declare any new methods as protected or private.  
 */ abstract class
```

BaseController extends

Controller

```
{  
/**  
 * Instance of the main Request object.  
 *  
 * @var CLIRequest|IncomingRequest  
 */  
protected $request;
```

```
/**  
 * An array of helpers to be loaded automatically upon  
 * class instantiation. These helpers will be available  
 * to all other controllers that extend BaseController.  
 *  
 * @var list<string>
```

```
 */  
  
protected $helpers = [];  
  
/**  
 * Be sure to declare properties for any property fetch you initialized.  
 * The creation of dynamic property is deprecated in PHP 8.2.  
 */  
  
// protected $session;  
  
/**  
 * @return void  
 */  
  
public function initController(RequestInterface $request,  
ResponseInterface $response, LoggerInterface $logger)  
{  
    // Do Not Edit This Line  
  
    parent::initController($request  
    , $response, $logger);  
  
    // Preload any models, libraries, etc, here.  
  
    // E.g.: $this->session = service('session');  
}  
}  
  
AuthController.php  
<?php
```

```
namespace App\Controllers;

use
App\Models\U
serModel; use
CodeIgniter\Co
ntroller;

class AuthController extends Controller
{
    // Show login page
    (optional if you have a view)

    public function loginView()
    {
        return view('login');
    }
    //
    Handle
    login
    public
    function
    login()
    {
        $userModel = new UserModel();
```

```
$username = $this->request->getPost('username');
$password = $this->request->getPost('password');

// Check if username exists
$user = $userModel->checkUser($username);

if ($user && password_verify($password, $user['password'])) {
    // Set
    session data
    session()->set([
        'isLoggedIn' => true,
        'user_id'   => $user['id'],
        'username'  => $user['username']
    ]);

    return redirect()->to('/dashboard'); // redirect to dashboard after login
}

return redirect()->back()->with('error', 'Invalid username or password.');
}

// Logout
user
public
```

```
function

logout()

{
    session()->destroy();

return redirect()->to('/?logout=1');

;

}

}
```

**Routes:**

```
<?php

use CodeIgniter\Router\RouteCollection;

/** @var RouteCollection $routes

 */
$routes->get('/', 'AuthController::loginView');

$routes->post('/login', 'AuthController::login');

$routes->get('/logout', 'AuthController::logout');

$routes->get('/products/cards', 'ProductController::cards');

$routes->get('/dashboard', 'ProductController::index');

$routes->get('product/productForm', 'ProductController::add');
```

```
$routes->post('products/store', 'ProductController::create');

$routes->get('products/edit/(:num)', 'ProductController::editForm/$1');

$routes->post('products/update/(:num)', 'ProductController::update/$1');

$routes->get('products/delete/(:num)', 'ProductController::delete/$1');
```

**Video Link:**

<https://www.facebook.com/jhomel.natividad.2024/videos/1179391254319764/?fs=e&mibextid=wwXlfr&rdid=bljBLJntNpwNPRIq#>