

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

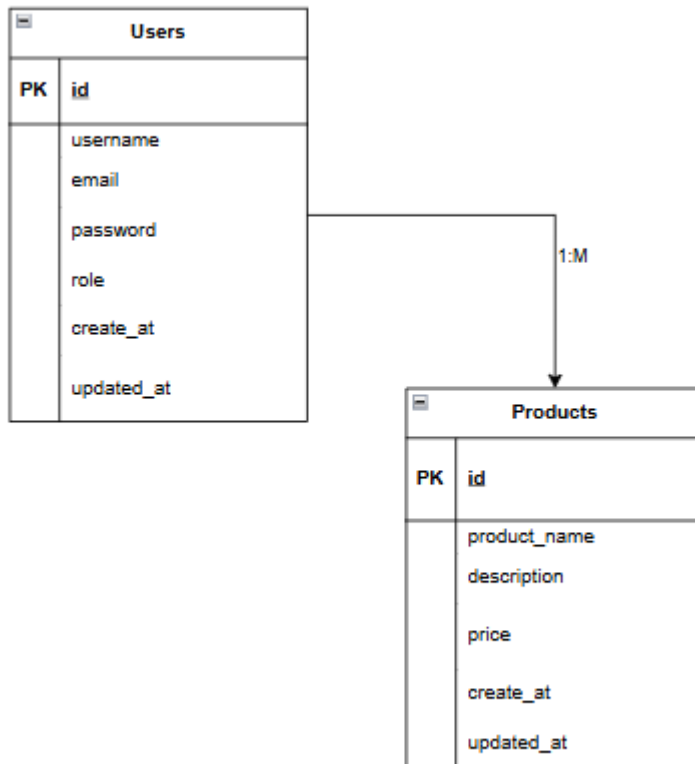


Table Structure

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:
 - 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) 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 `` 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!”

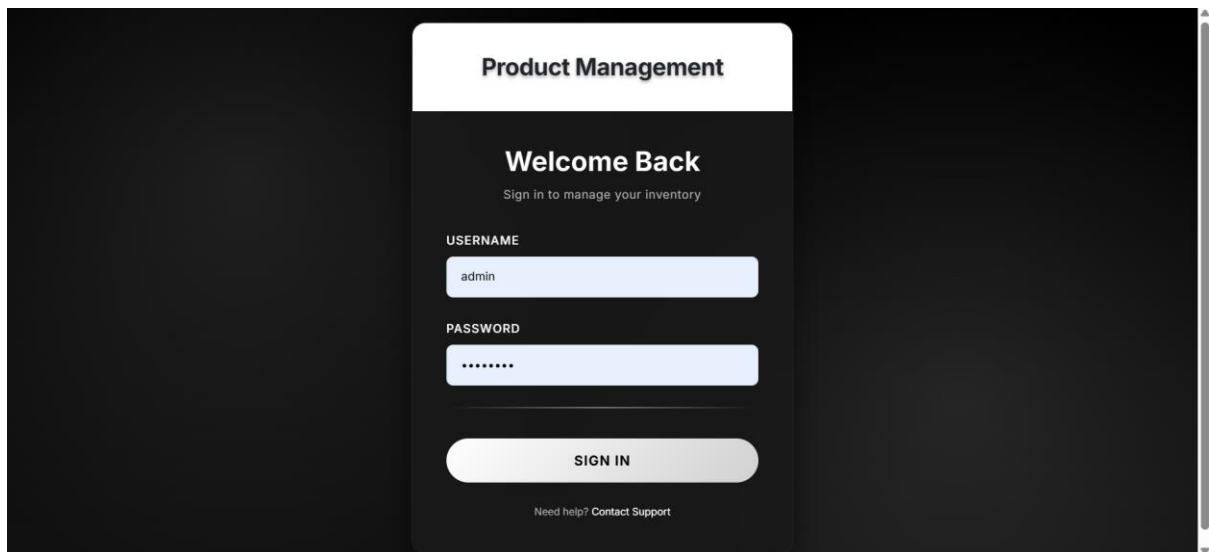
7. Security Implementation – password hashing and CSRF protection

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()`).

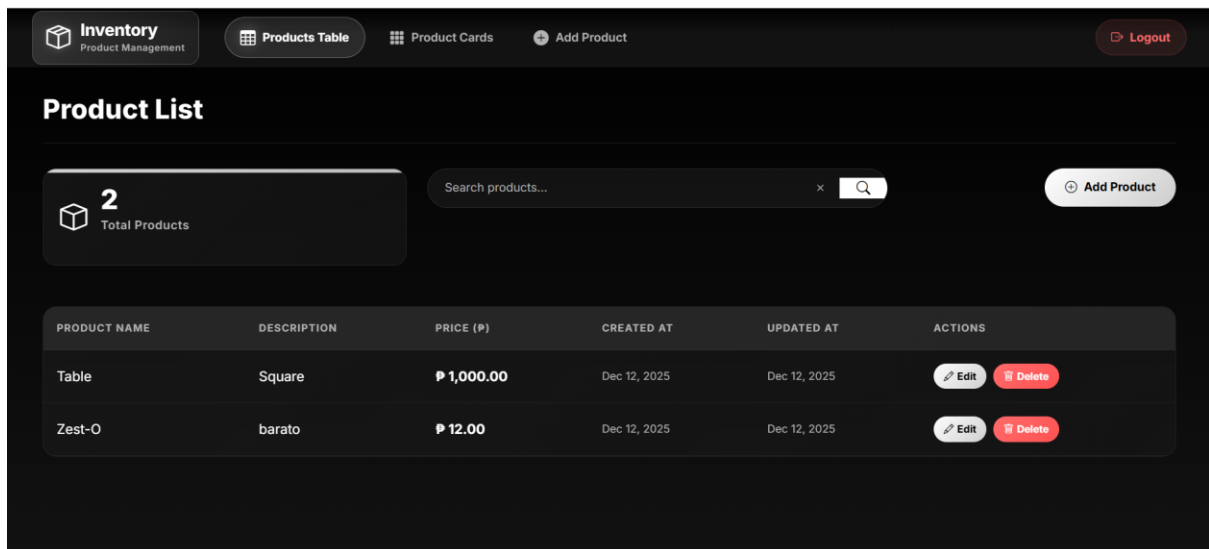
(Optional improvement: protect routes like /dashboard with CI4 Filters to block access when not logged in.)

8. Testing and Validation



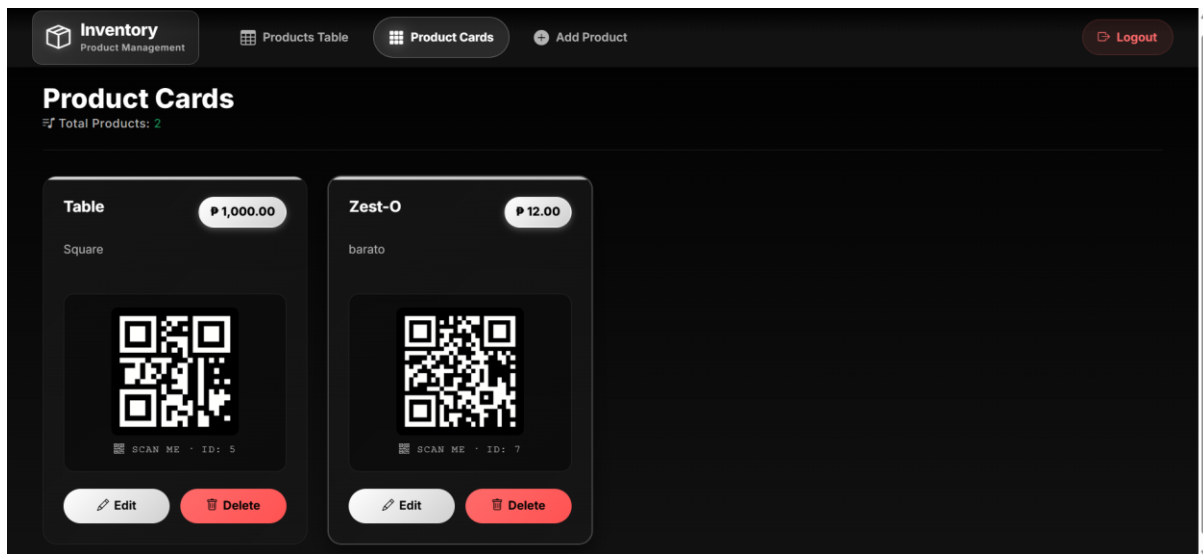
The login page lets users enter their username and password, then submits the form to **/login** where the system validates the credentials, creates a user session, and redirects the user to the dashboard upon successful authentication.

Product_View.php



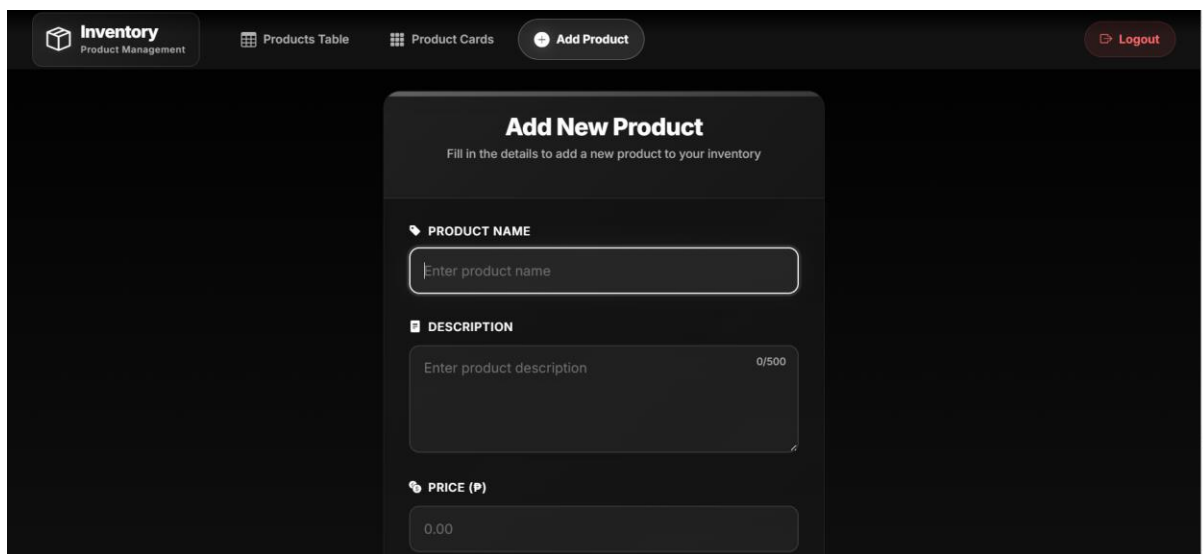
The product view presents all records in a tabular format, providing options to view, edit, and delete entries, allowing users to efficiently manage and maintain the stored data.

Product_Cards.php



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

Add_Product.php



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 web application interface for editing a product. At the top, there is a navigation bar with the following elements: a logo for 'Inventory Product Management', a 'Products Table' link, a 'Product Cards' link, an 'Add Product' button, and a 'Logout' button. The main content area features a central modal titled 'Edit Product' with a sub-header 'Update the details for Table' and a product ID of 'ID: 5'. The form contains three sections: 'PRODUCT NAME' with a text input field containing 'Table'; 'DESCRIPTION' with a text area containing 'Square' and a character count '6/500'; and 'PRICE (P)' with a text input field containing '1000.00'.

Inventory
Product Management

Products Table Product Cards Add Product Logout

Edit Product

ID: 5
Update the details for Table

PRODUCT NAME

Table

DESCRIPTION

Square 6/500

PRICE (P)

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://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>

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

```
--green-100:#eaf6ec;
```

```
--border:#e9ecef;
```

```
--text:#1f2937;
```

```
--muted:#6b7280;
```

```
--sidebar-w: 270px;
```

```
}
```

```
body{
```

```
background:#fff
```

```
!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);
}

.fas, .fa, .bi{ color: inherit !important; }
</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') ?>">

<i class="bi bi-box-seam"></i>

Products (Table)

<a class="sidebar-link" href="<?= base_url('products/cards') ?>">

<i class="bi bi-grid-3x3-gap"></i>

Product Cards

<a class="sidebar-link" href="<?= base_url('product/productForm') ?>">

<i class="bi bi-plus-circle"></i>Add Product

<!-- Add more links if you want

<a class="sidebar-link" href="<?= base_url('dashboard') ?>">

<i class="bi bi-speedometer2"></i>Dashboard

-->

</nav>

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

<!-- Logout moved here -->

```
<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>

</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>

</tbody>

<?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>

</main>

<script>

document.addEventListener('DOMContentLoaded', function() {

```

```
// Sidebar toggle (mobile)

const sidebar =

document.getElementById('sid
ebar');    const toggle =

document.getElementById('sid
ebarToggle');

    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('click', clearSearch);  
searchInput.addEventListener('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($p['product_name']???) ?></div><span class="price-badge">P <?=
number_format((float)($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.classLis
t.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>
```

```
<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') ?>">
    <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 Content -->
<main class="spotify-content">

```

```

<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>

<!-- 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';

```

?>

```
<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>
```

```
<!-- Action Buttons -->
<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; ?>
<?php 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>
</div>
<?php endif; ?>
</div>
</div>
```

```
</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"></scrip
t>
</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>

```

<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>

</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://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>
```

```
  :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
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);

backgroun

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') ?>">
```

```
<i class="bi bi-box-seam"></i>
```

```
<span>Products (Table)</span>
```

```
</a>
```

```
<a class="sidebar-link" href="<?= base_url('products/cards') ?>">
```

```
<i class="bi bi-grid-3x3-gap"></i>
```

```
<span>Product Cards</span>
```

```
</a>
```

```
<a class="sidebar-link active" href="<?= base_url('product/productForm')  
?>">
```

```
<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')?>"
```

```
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">
        <div class="form-container">
            <div class="card shadow-sm">
                <div class="card-header">
                    <h4 class="mb-0"><i class="fas fa-plus-circle me-2"></i>Add
Product</h4>
                </div>
                <div class="card-body">
                    <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>

<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

<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

loaded', 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()->setFlashdata('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
```

```
equstInterface; 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\UserModel;
```

```
use
```

```
CodeIgniter\Controller;
```

```
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=wwXIfr&rdid=bljBLJntNpwNPRIq#>