

INVENTORY PRODUCT MANAGEMENT



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SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

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TECHNICAL REPORT

1. System Overview

The Inventory Product Management System is a web-based application built using CodeIgniter 4 (CI4). Its main purpose is to allow authenticated users to manage product records (Create, Read, Update, Delete) and view products in two formats:

- Table View (with search + pagination + currency conversion dropdown)
- Card View (per-product currency conversion widget)

The system focuses on simple inventory tracking: product name, description, and price (stored in PHP currency).

2. System Architecture (CI4 Structure)

The system follows the MVC (Model–View–Controller) design pattern used by CodeIgniter 4:

Controllers

- AuthController
 - Handles login view, login processing, and logout logic.
- ProductController (*implied by routes and views*)
 - Handles product listing (dashboard), card listing, add form, edit form, create, update, delete.

Models

- UserModel
 - Responsible for retrieving user information and validating login credentials (via username lookup).
- ProductModel (*expected*)
 - Responsible for database operations related to products (insert, update, delete, fetch with pagination).

Views

- login.php – Login UI form
- product_view.php – Product table listing + currency dropdown + actions
- product_cards.php – Product cards + per-card currency conversion widget

- add_product.php – Add product form
- edit_product.php – Edit product form

Routes (Routing Layer)

Routes connect URLs to controller methods, for example:

- / → login page
- /dashboard → product list table
- /products/cards → card view
- /products/edit/{id}, /products/delete/{id} → edit/delete actions

3. Database Design

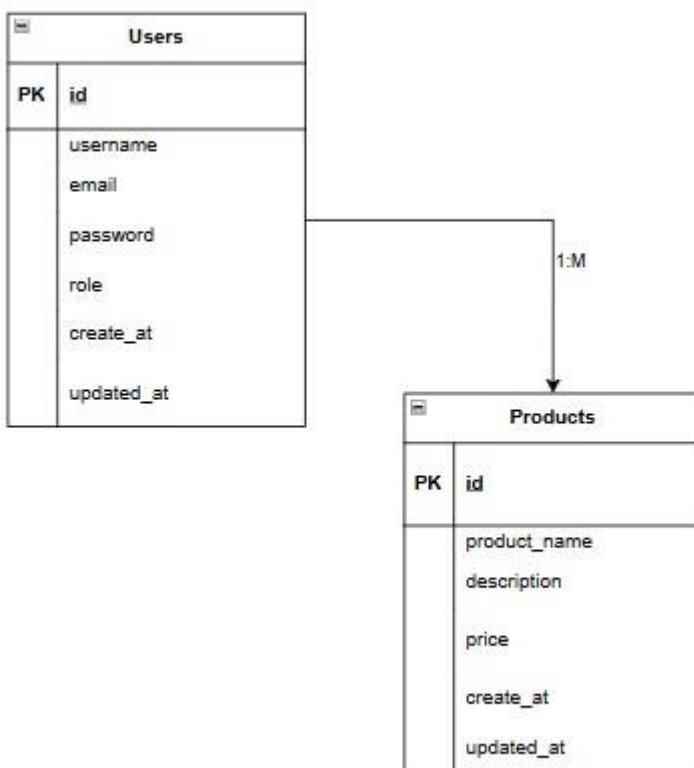


Table Structure users

- **id** (PK)
- **username**
- **password (hashed) products**

- id (PK)
- product_name
- description
- price
- created_at (*used in view display*)
- updated_at (*used in view display*) **Relationships**
- In your current code, **products are not linked to a user_id**, so products are global to whoever is logged in.

4. Authentication Module

Login Process

1. User opens the login page (/).
2. The form submits POST /login.
3. AuthController::login():
 - Reads username and password.
 - Retrieves user record via \$userModel->checkUser(\$username).
 - Verifies password using password_verify().
4. On success, a session is created:
 - isLoggedIn = true
 - user_id, username
5. User is redirected to /dashboard.

Logout Process

1. User clicks logout link (/logout).
2. AuthController::logout() destroys session.
3. Redirects to /?logout=1 and shows logout alert.

Role Management (Current + Recommendation)

- Your current code stores login state and identity.
- **Role-based access control (RBAC)** is not yet enforced in routes/controllers.
- Recommended next step:

- Add a role field in the users table
- Add middleware/filter to restrict routes (e.g., only admin can delete)

5. API Integration

Current State (Frontend Demo Rates)

Your currency conversion currently uses **client-side demo exchange rates** (hard-coded in JavaScript), converting **PHP → USD/EUR/JPY/KRW**.

Purpose:

- Show how a currency feature would work in UI.
- Provide immediate conversion display without calling external services.

Recommended Improvement (Real API)

Use an external exchange rate API (example approach):

- Endpoint example (illustrative):
 - GET /api/rates?base=PHP
- The server returns JSON:

```
{  
  "base": "PHP",  
  "rates": { "USD": 0.018, "EUR": 0.016, "JPY": 2.60, "KRW": 24.0 }  
}
```

Purpose:

- Fetch real-time exchange rates dynamically.
- Remove hard-coded demo values.
- Improve accuracy and reliability.

6. System Features / Modules (CRUD Summary)

Product Management (CRUD)

- Create Product**

- Add product form → submits to products/store

- Read / View Products**

- Dashboard table view (/dashboard)
 - Card view (/products/cards)

- Update Product**

- Edit form → submits to products/update/{id}

- Delete Product**

- Delete action with confirmation prompt
(products/delete/{id})

Extra Features

- Search Filter**

- Client-side search on table view (product name, description, price)

- Pagination**

- Server-side pagination (based on \$currentPage, \$totalPages, \$perPage)

- Currency Display Conversion**

- Table view: dropdown converts all prices
 - Card view: each product can be converted individually

7. Security Implementation

Password Security

- Passwords are validated using:
 - `password_verify($password, $user['password'])`
- Recommended: ensure passwords are created using `password_hash()` when registering/inserting users.

CSRF Protection

- CI4 CSRF tokens are included in forms:
 - `<?= csrf_field() ?>`
- Helps prevent cross-site request forgery.

Output Escaping (XSS Protection)

- Product fields and dynamic output use:
 - `esc($product['product_name'])`
 - `esc($product['description'])`
- Prevents script injection in UI.

Session Security

- Session variables store login state (`isLoggedIn`).
- Recommended: protect product routes with an auth filter that checks `isLoggedIn`.

8. Testing and Validation

Login.php

This allows the user to login, on the way to his or her dashboard.

The screenshot shows a login form titled "Inventory Product Management". It features a "Sign in to continue" message at the top. Below it are two input fields: "Username" and "Password", both with placeholder text "Enter your username" and "Enter your password". There is a "Show" link next to the password field. A "Remember me" checkbox and a "Forgot password?" link are also present. A large blue "Login" button is centered at the bottom. At the very bottom of the form, there is a small copyright notice: "© 2025 Inventory System".

Product_View.php

This is the dashboard of the user where he or she can do CRUD operations. He/she can also search the products that he/she created.

The screenshot displays a dashboard with a sidebar on the left and a main content area on the right. The sidebar contains four items: "Inventory" (selected), "Products (Table)" (selected), "Product Currency Exchange", and "Add Product". The main content area has a title "Product List" and a sub-section showing "4 Total Products". It includes a search bar with a placeholder "Search products..." and a dropdown menu set to "PHP (P)". Below these are two buttons: a magnifying glass icon and a close (X) icon. The main part of the dashboard is a table with the following columns: "Product Name", "Description", "Price (P)", "Created At", "Updated At", and "Actions". The table contains four rows of data:

Product Name	Description	Price (P)	Created At	Updated At	Actions
Polvoronsssss	Masarap	₱ 10.00	Dec, 09 2025	Dec, 10 2025	<button>Edit</button> <button>Delete</button>
USB Keyboard		₱ 100.00	Dec, 10 2025	Dec, 10 2025	<button>Edit</button> <button>Delete</button>
dasdas	sadasda	₱ 100.00	Dec, 10 2025	Dec, 10 2025	<button>Edit</button> <button>Delete</button>
asas	dads	₱ 23123.00	Dec, 10 2025	Dec, 10 2025	<button>Edit</button> <button>Delete</button>

At the bottom left of the sidebar is a "Logout" button.

Currency.php

This is where the user sees his/her encoded items, he/she will be able to know what Are the prices of his/her products per currency.

The screenshot shows a dashboard titled "Product Cards" with a total count of 4 items. Each item card includes a product name, price, and a "Currency Converter" tool for USD conversion.

- Polvoronssss**: Price ₱ 10.00, Masarap. Currency Converter shows \$ 0.18 (Rate: 1 PHP = 0.0180 USD). Buttons: Edit, Delete.
- USB Keyboard**: Price ₱ 100.00. Currency Converter shows \$ 1.80 (Rate: 1 PHP = 0.0180 USD). Buttons: Edit, Delete.
- dasdas**: Price ₱ 100.00, sadasda. Currency Converter shows \$ 1.80 (Rate: 1 PHP = 0.0180 USD). Buttons: Edit, Delete.
- asas**: Price ₱ 23,123.00, dads. Currency Converter shows \$ 412.31. Buttons: Edit, Delete.

Left sidebar navigation includes: Products (Table), Product Currency Exchange, Add Product, and Logout.

Add_product.php

This part will enable the user to add products of his/her choice. By this we can insert data to the database

The screenshot shows a "ADD PRODUCT" form. It prompts the user to fill out details to add a new item to the inventory.

Fields:

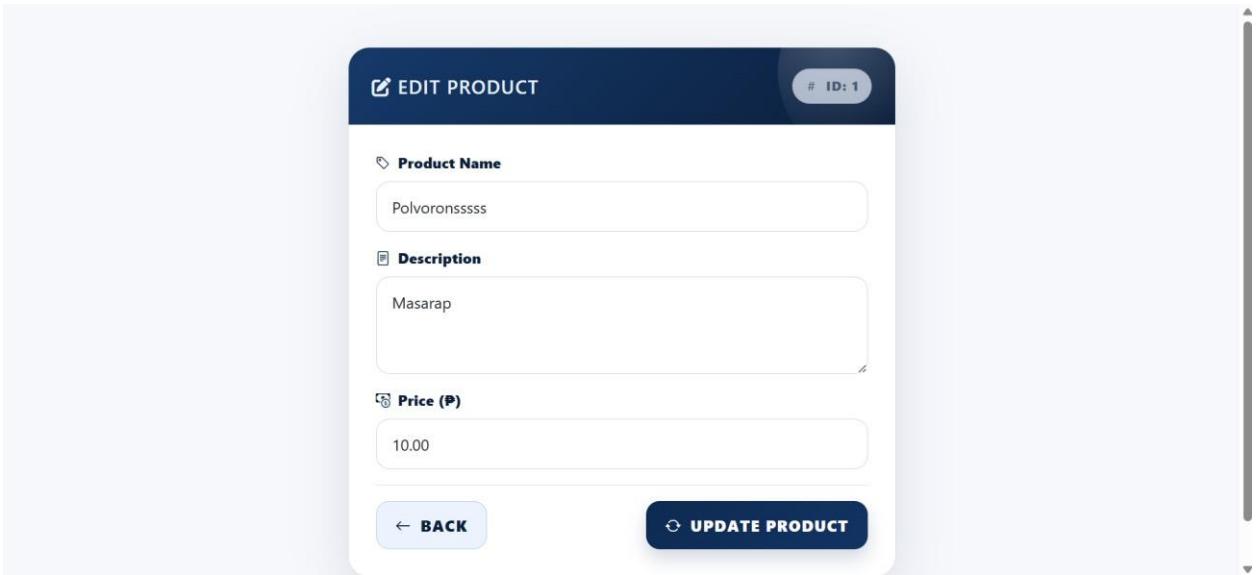
- Product Name** (Required): Input field with placeholder "e.g., USB Keyboard".
- Price (₱)** (Required): Input field with placeholder "\$ 0.00".
- Description** (Optional): Text area with placeholder "Add a short description (features, size, color, etc.)". Tip: Keep it to 1-2 lines for readability.

Buttons: BACK, SAVE PRODUCT.

Left sidebar navigation includes: Products (Table), Product Currency Exchange, Add Product, and Logout.

Edit_Product.php

This part is where we edit the data based on our desired choice.0020



9. System Setup Guide Requirements

Requirements / Dependencies

- PHP 8.x (recommended)
- Composer
- MySQL / MariaDB
- CodeIgniter 4
- Web server (Apache/Nginx) or PHP built-in server

Installation Steps

1. **Clone or copy the project**
2. **Install dependencies**
3. composer install
4. **Configure environment**
 - Copy .env and set:
 - CI_ENVIRONMENT = development
 - Database credentials (database.default.hostname, username, password, database)
5. **Create database**

- Create a database (e.g., inventory_db)

6. Create tables

- Run migrations (if you have them), or manually create users and products.

7. Run the project

8. php spark serve

9. Open in browser:

- <http://localhost:8080/>

10. Conclusion / Future Improvements

Conclusion

The system successfully implements a clean CI4-based inventory product manager with authentication, CRUD operations, and user-friendly UI views (table + cards). It demonstrates how CI4 MVC structure supports maintainable and scalable development.

Future Improvements

- Implement **RBAC** (admin/user roles) and route filters.
- Replace demo currency rates with **real-time exchange rate API integration**.
- Add server-side search and filtering (for large datasets).
- Add audit logs (who created/updated/deleted records).
- Add product categories, stock quantity, and product images.

ALL CODES OF THE SYSTEM

Views:

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>
```

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

```
<style>
:root{
  --navy-950:#07162d;
  --navy-900:#0b1f3b;
  --navy-800:#0e2a52;
  --navy-700:#123464;
  --navy-600:#1c4a8a;
  --ring: rgba(28, 74, 138, .22);
  --card-border: rgba(11,31,59,.10);
}
```

```
body{
  background:
    radial-gradient(900px 450px at 15% 10%, rgba(28,74,138,.18), transparent 60%),
    radial-gradient(700px 420px at 90% 25%, rgba(11,31,59,.14), transparent 55%),
    #f6f8fc;
}
```

```
.login-card{
  width: 420px;
  border: 1px solid var(--card-border);
  border-radius: 18px;
  overflow: hidden;
  box-shadow: 0 18px 50px rgba(7,22,45,.12);
  background: #fff;
}
```

```
.login-hero{  
    padding: 18px 22px;  
    background: linear-gradient(135deg, #163a6b 0%, var(--navy-900) 100%);  
    color: #eaf2ff;  
    position: relative;  
}  
  
.login-hero:after{  
    content:"";  
    position:absolute;  
    inset:auto -40px -80px auto;  
    width: 180px;  
    height: 180px;  
    background: radial-gradient(circle at 30% 30%, rgba(255,255,255,.25), transparent  
60%);  
    border-radius: 50%;  
    transform: rotate(12deg);  
    pointer-events:none;  
}  
  
.brand-badge{  
    width: 44px;  
    height: 44px;  
    border-radius: 14px;  
    display:grid;  
    place-items:center;  
    background: rgba(255,255,255,.14);  
    border: 1px solid rgba(255,255,255,.18);  
    backdrop-filter: blur(6px);
```

```
    font-weight: 800;  
    letter-spacing: .5px;  
}  
  
}
```

```
.subtle{  
    opacity: .9;  
    font-size: .92rem;  
}
```

```
.login-body{  
    padding: 22px;  
}
```

```
.form-label{  
    font-weight: 600;  
    color: var(--navy-900);  
    margin-bottom: .35rem;  
}
```

```
.form-control{  
    border-radius: 12px;  
    padding: .72rem .9rem;  
    border-color: rgba(11,31,59,.14);  
}
```

```
.form-control:focus{  
    border-color: var(--navy-600) !important;  
    box-shadow: 0 0 0 .2rem var(--ring) !important;  
    outline: 0 !important;
```

```
}
```

```
.input-group-text{  
    border-radius: 12px;  
    border-color: rgba(11,31,59,.14);  
    background: #f3f6fb;  
    color: var(--navy-800);  
    user-select:none;  
}
```

```
.btn-navy{  
    border-radius: 12px;  
    padding: .72rem 1rem;  
    font-weight: 700;  
    background: linear-gradient(135deg, var(--navy-800) 0%, var(--navy-700) 100%);  
    border: 0;  
    box-shadow: 0 10px 24px rgba(14,42,82,.20);  
}  
.btn-navy:hover{  
    filter: brightness(1.03);  
    transform: translateY(-1px);  
}  
.btn-navy:active{  
    transform: translateY(0);  
    box-shadow: 0 8px 18px rgba(14,42,82,.18);  
}
```

```
.helper-links a{  
    color: var(--navy-700);
```

```
text-decoration: none;
font-weight: 600;
font-size: .92rem;
}

.helper-links a:hover{ text-decoration: underline; }

.alert{
    border-radius: 12px;
    border: 1px solid rgba(11,31,59,.10);
}

.footer-note{
    color: rgba(11,31,59,.65);
    font-size: .86rem;
    text-align:center;
    margin-top: 14px;
}

</style>

</head>

<body class="d-flex align-items-center justify-content-center vh-100">
<div class="login-card">

    <!-- Header / Brand -->
    <div class="login-hero">
        <div class="d-flex align-items-center gap-3">
            <div class="brand-badge">IP</div>
            <div>
                <div class="fw-bold" style="font-size:1.05rem; letter-spacing:.2px;">
```

```
Inventory Product Management

</div>

<div class="subtle">Sign in to continue</div>

</div>

</div>

</div>

<!-- Body -->

<div class="login-body">

<!-- Flash messages -->

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

<div class="alert alert-danger mb-3">
    <?= session()->getFlashdata('error') ?>
</div>

<?php endif; ?>

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

<div class="alert alert-success mb-3">
    <?= session()->getFlashdata('success') ?>
</div>

<?php endif; ?>

<?php if (isset($_GET['logout']) && $_GET['logout'] == '1'): ?>
    <script>window.alert("Successfully Logged Out");</script>
<?php endif; ?>

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

<div class="alert alert-danger mb-3">
    <?= $validation->getError('username') ?>
```

```
</div>

<?php endif; ?>

<?php if(isset($validation) && $validation->hasError('password')): ?>
<div class="alert alert-danger mb-3">
    <?= $validation->getError('password') ?>
</div>

<?php endif; ?>

<form action="<?= base_url('/login') ?>" method="post" class="mt-2">
<div class="mb-3">
    <label for="username" class="form-label">Username</label>
    <input type="text" name="username" id="username" class="form-control" placeholder="Enter your username" required>
</div>

<div class="mb-3">
    <label for="password" class="form-label">Password</label>
    <div class="input-group">
        <input type="password" name="password" id="password" class="form-control" placeholder="Enter your password" required>
        <span class="input-group-text" role="button" id="togglePassword" aria-label="Show password">Show</span>
    </div>
</div>

<div class="d-flex justify-content-between align-items-center mb-3 helper-links">
    <div class="form-check">
        <input class="form-check-input" type="checkbox" value="1" id="rememberMe">
        <label class="form-check-label" for="rememberMe" style="color:rgba(11,31,59,.75); font-weight:600;">
            Remember me
    </div>
</div>
```

```

        </label>
    </div>
    <a href="#" onclick="return false;">Forgot password?</a>
</div>

<button type="submit" class="btn btn-navy text-white w-100">Login</button>

<div class="footer-note">© <?= date('Y') ?> Inventory System</div>
</form>
</div>
</div>

<script>
// Simple show/hide password
const toggle = document.getElementById('togglePassword');
const pwd = document.getElementById('password');
toggle?.addEventListener('click', () => {
    const isHidden = pwd.type === 'password';
    pwd.type = isHidden ? 'text' : 'password';
    toggle.textContent = isHidden ? 'Hide' : 'Show';
});
</script>
</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{
/* NAVY THEME */
--navy-950:#07162d;
--navy-900:#0b1f3b;
--navy-800:#0e2a52;
--navy-700:#123464;
--navy-600:#1c4a8a;
--navy-500:#2a5aa8;
--navy-100:#eaf2ff;

--border:#e9ecef;
--text:#1f2937;
--muted:#6b7280;

--sidebar-w: 270px;
--ring: rgba(28, 74, 138, .22);
}

body{
background:#ffffff !important;
color: var(--text);
}

/* ===== Sidebar ===== */
.sidebar{
position: 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(234,242,255,.95) 0%, rgba(28,74,138,.12) 100%);
  border: 1px solid rgba(28,74,138,.22);
  color: var(--navy-900);
  font-weight: 800;
  letter-spacing:.2px;
}
.sidebar-brand i{ color: var(--navy-800); 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(--navy-800); }
.sidebar-link:hover{
  background: rgba(234,242,255,.75);
  border-color: rgba(28,74,138,.22);
  transform: translateY(-1px);
}
.sidebar-link.active{
  background: rgba(234,242,255,.92);
  border-color: rgba(28,74,138,.28);
  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: var(--navy-900);
  border: 1px solid rgba(11,31,59,.16);
  background: rgba(234,242,255,.55);
  transition: transform .12s ease, box-shadow .12s ease;
}

.logout-link:hover{
  transform: translateY(-1px);
  box-shadow: 0 10px 18px rgba(11,31,59,.10);
  background: rgba(234,242,255,.85);
}

/* 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.show{
  transform: translateX(0);
}
.content{
  margin-left: 0;
  padding-top: 64px; /* space for toggle */
}
.sidebar-toggle{ display:inline-flex; }
}

/* ===== Your existing styles (re-themed to navy) ===== */
.card{ border-radius:16px !important; }

.card-navy{
  background: linear-gradient(135deg, rgba(234,242,255,.95) 0%, rgba(28,74,138,.12) 100%) !important;
  border: 1px solid rgba(28,74,138,.22) !important;
  color: var(--navy-900) !important;
  border-radius: 16px !important;
}
.card-navy .text-white{ color: var(--navy-900) !important; }
.card-navy i{ color: var(--navy-800) !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-navy{
  background: linear-gradient(135deg, var(--navy-800) 0%, var(--navy-700) 100%) !important;
  border: 0 !important;
  color: #fff !important;
  font-weight: 700;
  border-radius: 12px !important;
  box-shadow: 0 10px 18px rgba(14,42,82,.18);
  transition: transform .12s ease, box-shadow .12s ease, filter .12s ease;
}
.btn-navy:hover{
  filter: brightness(1.03);
```

```
        transform: translateY(-1px);
        box-shadow: 0 12px 22px rgba(14,42,82,.22);
    }
    .btn-navy i,.btn-navy .bi,.btn-navy .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(28,74,138,.55) !important;
    box-shadow: 0 0 0 .2rem var(--ring) !important;
}

/*  NEW: currency dropdown inside search group */
#currencySelect{
    border:1px solid var(--border) !important;
    border-left: 0 !important;
    border-right: 0 !important;
    border-radius: 0 !important; /* middle piece */
    padding: .65rem .75rem !important;
    font-weight: 800;
    color: var(--navy-900);
    background: #fff;
    max-width: 180px;
}
#currencySelect:focus{
    border-color: rgba(28,74,138,.55) !important;
    box-shadow: 0 0 0 .2rem var(--ring) !important;
}

#searchBtn{ border-radius:0 !important; }
#clearBtn{ border-radius:0 12px 12px 0 !important; }

.table{ margin-bottom:0 !important; }
.table-navy th{
    background: #f3f7ff !important;
    color: var(--navy-900) !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(234,242,255,.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:#f3f7ff !important;
color: var(--navy-900) !important;
border-color: rgba(28,74,138,.22) !important;
}

.pagination .page-link{
color: var(--navy-700);
border-color: var(--border);
border-radius:12px !important;
margin: 0 4px;
}
.pagination .page-link:hover{
color:#fff;
background: var(--navy-500);
border-color: var(--navy-500);
}
.pagination .page-link:focus{
color:#fff;
background: var(--navy-700);
border-color: var(--navy-700);
box-shadow: 0 0 0 .2rem var(--ring);
}
.pagination .page-item.active .page-link{
color:#fff;
background: var(--navy-700);
border-color: var(--navy-700);
}
.pagination .page-item.disabled .page-link{
color:#a1a1aa;
background:#fff;
border-color: var(--border);
}
```

```

.fas, .fa, .bi{ color: inherit !important; }
</style>
</head>

<body>


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


<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 active" 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 Currency Exchange</span>
    </a>

    <a class="sidebar-link" 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>

```

```

</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-navy">
            <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>
      </div>
    </div>

    <!-- ✅ Search Bar + Currency Dropdown -->
    <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">

        <!-- ✅ NEW: currency exchange dropdown -->
        <select class="form-select" id="currencySelect" title="Convert prices to">
          <option value="PHP" selected>PHP (₱)</option>
          <option value="USD">USD ($)</option>
          <option value="EUR">EUR (€)</option>
          <option value="JPY">JPY (¥)</option>
          <option value="KRW">KRW (₩)</option>
        </select>

        <button class="btn btn-navy" type="button" id="searchBtn">
          <i class="fas fa-search"></i>
        </button>
      </div>
    </div>
  </div>
</main>

```

```
</button>
<button class="btn btn-navy" 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">
  <!-- (left empty as your original) -->
</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" id="productsTable">
<thead class="table-navy">
<tr>
<th>Product Name</th>
<th>Description</th>
<th>Price (<span id="priceHeaderSymbol">₱</span>)</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>

<!--  store original PHP price in data-php for conversion -->
<td class="price-cell" data-php="<?= esc((float)$product['price']) ?>">
<?= number_format($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-
navy btn-sm">
<i class="bi bi-pencil"></i> Edit
</a>
<a href="<?= base_url('products/delete/' . $product['id']) ?>" class="btn
btn-navy 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('DOMContentLoaded', function() {
    // Sidebar toggle (mobile)
    const sidebar = document.getElementById('sidebar');
    const toggle = document.getElementById('sidebarToggle');
    if (toggle) toggle.addEventListener('click', () => sidebar.classList.toggle('show'));

    // Search (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();

```

```

const description = row.cells[1].textContent.toLowerCase();
const price = row.cells[2].textContent.toLowerCase();

if (searchTerm === "" ||
    productName.includes(searchTerm) ||
    description.includes(searchTerm) ||
    price.includes(searchTerm)) {
  row.style.display = "";
  visibleRows++;
} else {
  row.style.display = 'none';
}
});

if (searchTerm !== "" && visibleRows === 0) {
  if (noProductsRow) {
    noProductsRow.innerHTML = 'No products found matching your search.';
    noProductsRow.parentElement.style.display = "";
  }
} 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.display = "";
  if (paginationInfo) paginationInfo.style.display = "";
}

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();
  }
});

//  Currency converter (client-side demo rates)
const currencySelect = document.getElementById('currencySelect');
const priceHeaderSymbol = document.getElementById('priceHeaderSymbol');
const priceCells = document.querySelectorAll('.price-cell');

// Demo rates: 1 PHP -> target currency (replace with real API later if you want)
const rates = {
  PHP: 1,
  USD: 0.018, // example only
  EUR: 0.016, // example only
  JPY: 2.60, // example only
  KRW: 24.0 // example only
};

const symbols = {
  PHP: '₱',
  USD: '$',
  EUR: '€',
  JPY: '¥',
  KRW: '₩'
};

function applyCurrency() {
  const code = currencySelect.value;
  const rate = rates[code] ?? 1;
  const symbol = symbols[code] ?? "";

  if (priceHeaderSymbol) priceHeaderSymbol.textContent = symbol;

  priceCells.forEach(td => {
    const php = parseFloat(td.dataset.php || '0');
    const converted = php * rate;
    td.textContent = `${symbol} ${converted.toFixed(2)}`;
  });
}

// keep your search behavior accurate after conversion
performSearch();

```

```

}

if (currencySelect) {
  currencySelect.addEventListener('change', applyCurrency);
  applyCurrency(); // initial apply
}
});

</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</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{
  /* NAVY THEME */
  --navy-950:#07162d;
  --navy-900:#0b1f3b;
  --navy-800:#0e2a52;
  --navy-700:#123464;
  --navy-600:#1c4a8a;
  --navy-100:#eaf2ff;

  --border:#e9ecef;
  --text:#1f2937;
  --muted:#6b7280;

  --sidebar-w: 270px;
}

```

```
--ring: rgba(28, 74, 138, .22);
}

body{ background:#fff !important; color:var(--text); }

/* Buttons (navy) */
.btn-navy{
    background: linear-gradient(135deg, var(--navy-800) 0%, var(--navy-700) 100%);
    border: 0;
    color: #fff;
    font-weight: 700;
    border-radius: 12px;
    box-shadow: 0 10px 24px rgba(14,42,82,.18);
    transition: .12s ease;
}
.btn-navy:hover{ filter: brightness(1.03); transform: translateY(-1px); color:#fff; }
.btn-navy:active{ transform: translateY(0); }

/* Sidebar */
.sidebar{
    position: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;
    border-radius:14px;
    background: linear-gradient(135deg, rgba(234,242,255,.95), rgba(28,74,138,.12));
    border:1px solid rgba(28,74,138,.22);
    color: var(--navy-900);
    font-weight:800;
}
.sidebar-brand i{ color:var(--navy-800); font-size:1.2rem; }

.sidebar-nav{ display:flex; flex-direction:column; gap:6px; margin-top: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:.12s ease;
}
.sidebar-link i{ color:var(--navy-800); }

.sidebar-link:hover{
    background: rgba(234,242,255,.75);
```

```
border-color: rgba(28,74,138,.22);
transform: translateY(-1px);
}
.sidebar-link.active{
background: rgba(234,242,255,.92);
border-color: rgba(28,74,138,.28);
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: var(--navy-900);
border:1px solid rgba(11,31,59,.16);
background: rgba(234,242,255,.55);
transition:.12s ease;
}
.logout-link:hover{
background: rgba(234,242,255,.85);
border-color: rgba(28,74,138,.28);
transform: translateY(-1px);
}

.content{ margin-left:var(--sidebar-w); padding:18px 18px 30px; }

.sidebar-toggle{
display:none; position:fixed; top:14px; left:14px; z-index:1040;
border-radius:12px !important;
}

```

@media (max-width: 991.98px){
:root{ --sidebar-w: 280px; }
.sidebar{ transform:translateX(-105%); transition:transform .18s ease; }
.sidebar.show{ transform:translateX(0); }
.content{ margin-left:0; padding-top:64px; }
.sidebar-toggle{ display:inline-flex; }
}

/* Cards */
.p-card{
border:1px solid var(--border);
border-radius:16px;
box-shadow: 0 10px 26px rgba(16,24,40,.08);

```
overflow:hidden;
background:#fff;
}

.p-card .badge{
background: rgba(28,74,138,.10);
color: var(--navy-800);
border: 1px solid rgba(28,74,138,.18);
font-weight: 700;
}

/* Currency converter box */
.converter{
background: rgba(234,242,255,.55);
border: 1px solid rgba(28,74,138,.18);
border-radius: 14px;
padding: 12px;
}
.converter .mini-title{
font-weight: 800;
color: var(--navy-900);
font-size: .9rem;
letter-spacing: .2px;
display:flex;
align-items:center;
justify-content: space-between;
gap: 10px;
margin-bottom: 8px;
}
.converter .converted{
font-weight: 900;
font-size: 1.1rem;
color: var(--navy-900);
line-height: 1.1;
}
.converter .rate{
font-size: .78rem;
color: rgba(11,31,59,.65);
margin-top: 4px;
}
.converter select.form-select{
border-radius: 12px;
border: 1px solid rgba(11,31,59,.18);
font-weight: 700;
color: var(--navy-900);
```

```

}

/* focus ring */
.form-control:focus, .form-select:focus{
  border-color: var(--navy-600) !important;
  box-shadow: 0 0 0 .2rem var(--ring) !important;
  outline: 0 !important;
}

h2{ color: var(--navy-900); }

</style>
</head>

<body>
  <!-- Mobile toggle -->
  <button class="btn btn-navy 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 active" href=<?= base_url('products/card') ?>">
        <i class="bi bi-grid-3x3-gap"></i><span>Product Currency Exchange</span>
      </a>

      <a class="sidebar-link" 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 class="content">  

<div class="container">  

    <div class="d-flex align-items-center justify-content-between flex-wrap gap-2 mb-3">  

        <div>  

            <h2 class="mb-1">Product Cards</h2>  

            <div class="text-muted small">Total: <?= esc($totalProducts ?? 0) ?></div>  

        </div>  

    </div>

    <div class="row g-3">  

        <?php if (!empty($products) && is_array($products)): ?>  

        <?php foreach ($products as $p): ?>  

        <?php  

            $pricePhp = (float)($p['price'] ?? 0);  

            $pid = (string)($p['id'] ?? "");  

        ?>  

        <div class="col-12 col-md-6 col-lg-4">  

            <div class="p-card p-3 h-100 d-flex flex-column">  

                <div class="d-flex justify-content-between align-items-start mb-2 text-center">  

                    <div class="fw-bold"><?= esc($p['product_name'] ?? "") ?></div>  

                    <span class="badge rounded-pill">₱ <?= number_format($pricePhp, 2)  

                ?></span>  

                </div>

                <div class="text-muted small mb-3 text-center" style="min-height:42px;">  

                    <?= esc($p['description'] ?? "") ?>  

                </div>

                <!--  Currency Converter (replaces barcode) -->  

                <div class="converter mb-3 text-center"  

                    data-php="<?= esc($pricePhp) ?>"  

                    id="conv-<?= esc($pid) ?>">  

                    <div class="mini-title">  

                        <span><i class="bi bi-currency-exchange me-1"></i> Currency  

                    Converter</span>  

                    <select class="form-select form-select-sm w-auto currency-select">  

                        <option value="USD" selected>USD</option>

```

```

        <option value="EUR">EUR</option>
        <option value="JPY">JPY</option>
        <option value="KRW">KRW</option>
    </select>
</div>

<div class="converted">
    <span class="converted-symbol">$</span>
    <span class="converted-value">0.00</span>
</div>
<div class="rate">
    Rate: 1 PHP = <span class="rate-value">0.00</span> <span class="rate-
code">USD</span>
</div>
</div>

<div class="d-flex gap-2 mt-auto">
    <a href=<?= base_url('products/edit/' . $p['id']) ?>" class="btn btn-navy btn-
sm w-50">
        <i class="bi bi-pencil"></i> Edit
    </a>

    <a href=<?= base_url('products/delete/' . $p['id']) ?>" class="btn btn-navy btn-sm w-50"
        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="alert alert-light border">No products found.</div>
</div>
<?php endif; ?>
</div>
</div>
</main>

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

```

//  Demo rates (PHP -> target). Replace these with real-time API later if you want.
const rates = {
    USD: 0.018, // example only
    EUR: 0.016, // example only
    JPY: 2.60, // example only
    KRW: 24.0 // example only
};

const symbols = { USD: '$', EUR: '€', JPY: '¥', KRW: '₩' };

function updateConverter(box) {
    const php = parseFloat(box.dataset.php || "0");
    const select = box.querySelector('.currency-select');
    const code = select.value;

    const rate = rates[code] ?? 0;
    const converted = php * rate;

    box.querySelector('.converted-symbol').textContent = symbols[code] ?? "";
    box.querySelector('.converted-value').textContent = converted.toFixed(2);

    box.querySelector('.rate-value').textContent = rate.toFixed(4);
    box.querySelector('.rate-code').textContent = code;
}

document.querySelectorAll('.converter').forEach(box => {
    // initial compute
    updateConverter(box);

    // on change
    const select = box.querySelector('.currency-select');
    select.addEventListener('change', () => updateConverter(box));
});

</script>

<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>
:root{
/* NAVY THEME */
--navy-950:#07162d;
--navy-900:#0b1f3b;
--navy-800:#0e2a52;
--navy-700:#123464;
--navy-600:#1c4a8a;
--navy-500:#2a5aa8;
--navy-100:#eaf2ff;

--ring: rgba(28, 74, 138, .22);
--border: rgba(11,31,59,.14);
--text:#1f2937;
--muted:#6b7280;
}

body{
  background: #f6f8fc !important;
  color: var(--text) !important;
  min-height: 100vh;
  display: flex;
  align-items: center;
  justify-content: center;
  padding: 24px 0;
}

.form-container{
  max-width: 560px;
  width: 100%;
  margin: 20px auto;
}
```

```
.card{  
  border: 1px solid var(--border) !important;  
  border-radius: 22px !important;  
  box-shadow: 0 18px 55px rgba(7,22,45,.12) !important;  
  background: #fff !important;  
  overflow: hidden;  
}  
  
.card-header{  
  background: linear-gradient(135deg, #163a6b 0%, var(--navy-900) 100%) !important;  
  color: #eaf2ff !important;  
  font-weight: 900;  
  text-transform: uppercase;  
  letter-spacing: 1px;  
  padding: 1.35rem 1.5rem;  
  border-bottom: none !important;  
  position: relative;  
}  
  
.card-header::after{  
  content:"";  
  position:absolute;  
  right:-70px; top:-70px;  
  width: 190px; height: 190px;  
  border-radius: 50%;  
  background: radial-gradient(circle at 30% 30%, rgba(255,255,255,.22), transparent  
62%);  
  pointer-events:none;  
}  
  
.card-body{  
  background: #fff !important;  
  padding: 1.75rem !important;  
}  
  
.form-label{  
  color: var(--navy-900) !important;  
  font-weight: 800;  
  letter-spacing: .3px;  
  font-size: .9rem;  
  margin-bottom: .55rem;  
  display:flex;  
  align-items:center;  
  gap:.5rem;  
}
```

```
.form-control{  
    border: 1px solid rgba(11,31,59,.18) !important;  
    border-radius: 14px !important;  
    padding: .8rem 1rem;  
    transition: box-shadow .2s ease, border-color .2s ease, transform .2s ease;  
}  
  
.form-control:focus{  
    border-color: rgba(28,74,138,.65) !important;  
    box-shadow: 0 0 0 .2rem var(--ring) !important;  
    transform: translateY(-1px);  
}  
  
.btn{  
    font-weight: 900;  
    text-transform: uppercase;  
    letter-spacing: 1px;  
    padding: .75rem 1.2rem;  
    border-radius: 14px !important;  
    transition: transform .12s ease, box-shadow .12s ease, filter .12s ease;  
    display:inline-flex;  
    align-items:center;  
    justify-content:center;  
    gap:.55rem;  
}  
  
.btn-navy{  
    background: linear-gradient(135deg, var(--navy-800) 0%, var(--navy-700) 100%) !important;  
    border: 0 !important;  
    color:#fff !important;  
    box-shadow: 0 10px 18px rgba(14,42,82,.18);  
}  
.btn-navy:hover{  
    filter: brightness(1.03);  
    transform: translateY(-2px);  
    box-shadow: 0 14px 26px rgba(14,42,82,.22) !important;  
    color:#fff !important;  
}  
  
.btn-soft{  
    background: rgba(234,242,255,.9) !important;  
    color: var(--navy-900) !important;  
    border: 1px solid rgba(28,74,138,.22) !important;  
}  
.btn-soft:hover{
```

```

background: rgba(234,242,255,1) !important;
border-color: rgba(28,74,138,.32) !important;
transform: translateY(-2px);
}

.meta-pill{
  display:inline-flex;
  align-items:center;
  gap:.5rem;
  padding:.45rem .75rem;
  border-radius: 999px;
  font-size: .82rem;
  font-weight: 800;
  color: rgba(11,31,59,.75);
  background: rgba(234,242,255,.7);
  border: 1px solid rgba(28,74,138,.18);
}

.divider{
  height:1px;
  background: rgba(11,31,59,.10);
  margin: 14px 0 16px;
}

.fas, .fa, .bi { color: inherit !important; }
h4{ margin:0 !important; font-size:1.2rem; }
</style>
</head>

<body>

<div class="container">
  <div class="form-container">
    <div class="card shadow-sm">

      <div class="card-header">
        <div class="d-flex align-items-center justify-content-between gap-2 flex-wrap">
          <h4 class="mb-0"><i class="fas fa-edit"></i> Edit Product</h4>
          <span class="meta-pill"><i class="bi bi-hash"></i> ID: <?= esc($product['id']) ?></span>
        </div>
      </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"></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"></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-cash-coin"></i> Price (₱)
  </label>
  <input
    type="number"
    step="0.01"
    name="price"
    id="price"
    class="form-control"
    value="<?= esc($product['price']) ?>"
    required
  >
</div>

<div class="divider"></div>

<div class="d-flex justify-content-between gap-2 flex-wrap">
  <a href="<?= site_url('/dashboard') ?>" class="btn btn-soft">
```

```

        <i class="bi bi-arrow-left"></i> Back
    </a>
    <button type="submit" class="btn btn-navy">
        <i class="bi bi-arrow-repeat"></i> Update Product
    </button>
</div>
</form>
</div>

</div>
</div>
</div>

<script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</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{
    /* NAVY THEME */
    --navy-950:#07162d;
    --navy-900:#0b1f3b;
    --navy-800:#0e2a52;
    --navy-700:#123464;
    --navy-600:#1c4a8a;
    --navy-500:#2a5aa8;
    --navy-100:#eaf2ff;

    --border:#e9ecef;
}

```

```
--text:#1f2937;
--muted:#6b7280;

--sidebar-w: 270px;
--ring: rgba(28, 74, 138, .22);
}

body{
  background: #f6f8fc !important;
  color: var(--text) !important;
  min-height: 100vh;
}

/* ===== Sidebar ===== */
.sidebar{
  position: 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(234,242,255,.95) 0%, rgba(28,74,138,.12) 100%);
  border: 1px solid rgba(28,74,138,.22);
  color: var(--navy-900);
  font-weight: 800;
  letter-spacing:.2px;
}
.sidebar-brand i{ color: var(--navy-800); 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(--navy-800); }
.sidebar-link:hover{
  background: rgba(234,242,255,.75);
  border-color: rgba(28,74,138,.22);
  transform: translateY(-1px);
}
.sidebar-link.active{
  background: rgba(234,242,255,.92);
  border-color: rgba(28,74,138,.28);
  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: var(--navy-900);
  border: 1px solid rgba(11,31,59,.16);
  background: rgba(234,242,255,.55);
```

```
    transition: transform .12s ease, box-shadow .12s ease, background .12s ease;
}
.logout-link:hover{
    transform: translateY(-1px);
    box-shadow: 0 10px 18px rgba(11,31,59,.10);
    background: rgba(234,242,255,.85);
}

/* Main content offset for sidebar */
.content{
    margin-left: var(--sidebar-w);
    padding: 18px 18px 30px;
    min-height: 100vh;
}

/*  Toggle removed: no sidebar-toggle styles + no mobile slide-in */
/* ====== Base controls/buttons (keep) ===== */
.form-control{
    border: 1px solid rgba(11,31,59,.18) !important;
    border-radius: 12px !important;
    padding: .75rem 1rem;
    transition: box-shadow .2s ease, border-color .2s ease, transform .2s ease;
}
.form-control:focus{
    border-color: rgba(28,74,138,.65) !important;
    box-shadow: 0 0 0 .2rem var(--ring) !important;
    transform: translateY(-1px);
}

.btn{
    font-weight:800;
    text-transform: uppercase;
    letter-spacing: 1px;
    padding:.75rem 1.5rem;
    border-radius: 12px !important;
    transition: transform .12s ease, box-shadow .12s ease, filter .12s ease;
    display:inline-flex;
    align-items:center;
    justify-content:center;
    gap:10px;
}
.btn-navy{
    background: linear-gradient(135deg, var(--navy-800) 0%, var(--navy-700) 100%) !important;
```

```
border: 0 !important;
color:#fff !important;
box-shadow: 0 10px 18px rgba(14,42,82,.18);
}
.btn-navy:hover{
filter: brightness(1.03);
transform: translateY(-2px);
box-shadow: 0 14px 26px rgba(14,42,82,.22) !important;
}

.btn-outline-secondary{
background: transparent !important;
color: var(--navy-800) !important;
border: 2px solid rgba(28,74,138,.25) !important;
}
.btn-outline-secondary:hover{
background: rgba(234,242,255,.9) !important;
color: var(--navy-900) !important;
border-color: rgba(28,74,138,.35) !important;
transform: translateY(-2px);
}

/* ===== REVISED FORM DESIGN (only affects form card) ===== */
.form-container{
max-width: 720px;
width: 100%;
margin: 20px auto;
}

.form-shell{
border-radius: 22px;
border: 1px solid rgba(11,31,59,.12);
background:
radial-gradient(900px 380px at 20% 0%, rgba(28,74,138,.10), transparent 55%), #fff;
box-shadow: 0 18px 55px rgba(7,22,45,.12);
overflow: hidden;
}

.form-topbar{
padding: 18px 22px;
background: linear-gradient(135deg, #163a6b 0%, var(--navy-900) 100%);
color: #eaf2ff;
position: relative;
}
.form-topbar:after{
```

```
content:"";
position:absolute;
right:-70px; top:-70px;
width: 180px; height: 180px;
border-radius: 50%;
background: radial-gradient(circle at 30% 30%, rgba(255,255,255,.22), transparent 62%);
pointer-events:none;
}

.form-title{
display:flex;
align-items:center;
gap:12px;
margin:0;
font-weight: 900;
letter-spacing: .6px;
text-transform: uppercase;
font-size: 1.05rem;
}

.title-badge{
width: 46px;
height: 46px;
border-radius: 16px;
display:grid;
place-items:center;
background: rgba(255,255,255,.14);
border: 1px solid rgba(255,255,255,.18);
backdrop-filter: blur(6px);
box-shadow: 0 12px 28px rgba(7,22,45,.18);
}

.form-subtitle{
margin: 6px 0 0;
opacity: .9;
font-size: .95rem;
}

.form-body{ padding: 22px; }

.form-grid{
display:grid;
grid-template-columns: 1fr 1fr;
gap: 14px;
}
```

```
@media (max-width: 767.98px){  
  .form-grid{ grid-template-columns: 1fr; }  
}  
  
.form-label{  
  display:flex;  
  align-items:center;  
  gap:8px;  
  color: var(--navy-900) !important;  
  font-weight: 800;  
  letter-spacing: .3px;  
  font-size: .86rem;  
  margin-bottom: 8px;  
  text-transform: none;  
}  
  
.req-pill{  
  margin-left:auto;  
  font-size: .75rem;  
  padding: .22rem .55rem;  
  border-radius: 999px;  
  background: rgba(234,242,255,.9);  
  border: 1px solid rgba(28,74,138,.20);  
  color: var(--navy-800);  
  font-weight: 800;  
}  
  
.input-icon{ position: relative; }  
.input-icon .icon{  
  position:absolute;  
  left: 14px;  
  top: 50%;  
  transform: translateY(-50%);  
  color: rgba(11,31,59,.55);  
  font-size: 1rem;  
  pointer-events:none;  
}  
  
.input-icon .form-control{  
  padding-left: 2.6rem !important;  
  border-radius: 14px !important;  
}  
  
textarea.form-control{  
  border-radius: 14px !important;  
  padding-left: 1rem !important;  
}
```

```
}

.help-text{
  margin-top: 8px;
  font-size: .85rem;
  color: rgba(11,31,59,.60);
}

.divider{
  height: 1px;
  background: rgba(11,31,59,.10);
  margin: 16px 0 14px;
}

.actions{
  display:flex;
  justify-content: space-between;
  gap: 10px;
  flex-wrap: wrap;
  margin-top: 10px;
}

.btn-soft{
  background: rgba(234,242,255,.9) !important;
  color: var(--navy-900) !important;
  border: 1px solid rgba(28,74,138,.22) !important;
  min-width: 170px;
}
.btn-soft:hover{
  background: rgba(234,242,255,1) !important;
  border-color: rgba(28,74,138,.32) !important;
  transform: translateY(-2px);
}

.fas, .fa, .bi{ color: inherit !important; }

</style>
</head>
```

```
<body>

<!--  Toggle button REMOVED -->

<!-- Sidebar (UNCHANGED) -->
<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 Currency Exchange</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="form-shell">
        <div class="form-topbar">
          <div class="form-title">
            <span class="title-badge"><i class="bi bi-plus-lg"></i></span>
            Add Product
          </div>
        </div>
      </div>
    </div>
  </div>
</main>

```

```
<div class="form-subtitle">Fill out the details below to add a new item to your
inventory.</div>
</div>

<div class="form-body">
<form action=" site_url('products/store') ?&gt;" method="post"&gt;
&lt;?= csrf_field() ?&gt;

&lt;div class="form-grid"&gt;
&lt;div&gt;
&lt;label for="product_name" class="form-label"&gt;
&lt;i class="bi bi-tag"&gt;&lt;/i&gt; Product Name
&lt;span class="req-pill"&gt;Required&lt;/span&gt;
&lt;/label&gt;
&lt;div class="input-icon"&gt;
&lt;i class="bi bi-box-seam icon"&gt;&lt;/i&gt;
&lt;input type="text" name="product_name" id="product_name"
class="form-control" placeholder="e.g., USB Keyboard" required&gt;
&lt;/div&gt;
&lt;div class="help-text"&gt;Use a short, clear name customers will
recognize.&lt;/div&gt;
&lt;/div&gt;

&lt;div&gt;
&lt;label for="price" class="form-label"&gt;
&lt;i class="bi bi-cash-coin"&gt;&lt;/i&gt; Price (₱)
&lt;span class="req-pill"&gt;Required&lt;/span&gt;
&lt;/label&gt;
&lt;div class="input-icon"&gt;
&lt;i class="bi bi-currency-dollar icon"&gt;&lt;/i&gt;
&lt;input type="number" step="0.01" name="price" id="price"
class="form-control" placeholder="0.00" required&gt;
&lt;/div&gt;
&lt;div class="help-text"&gt;Enter the selling price (e.g., 199.99).&lt;/div&gt;
&lt;/div&gt;
&lt;/div&gt;

&lt;div class="divider"&gt;&lt;/div&gt;

&lt;div class="mb-2"&gt;
&lt;label for="description" class="form-label"&gt;
&lt;i class="bi bi-file-text"&gt;&lt;/i&gt; Description
&lt;span class="req-pill" style="opacity:.85;"&gt;Optional&lt;/span&gt;
&lt;/label&gt;
&lt;textarea name="description" id="description" class="form-control" rows="4"&gt;</pre
```

```

placeholder="Add a short description (features, size, color,
etc.)"></textarea>
<div class="help-text">Tip: Keep it to 1–2 lines for readability.</div>
</div>

<div class="actions">
<a href="= site_url('/dashboard') ?" class="btn btn-soft">
  <i class="bi bi-arrow-left"></i> Back
</a>

<!--  Your Save button was missing in your snippet; adding it back -->
<button type="submit" class="btn btn-navy">
  <i class="bi bi-check2-circle"></i> Save Product
</button>
</div>
</form>
</div>
</div>
</div>

</div>
</main>
```

```

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

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');
    }
}

```

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');
}
}

```

UserModel.php

```

<?php
namespace App\Models;

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)
{
    return $this->where('username', $username)->first();
}

// Hash password using bcrypt
public function hashPassword($password)
{
    return password_hash($password, PASSWORD_BCRYPT);
}

```

ProductModel.php

```

<?php
namespace App\Models;
use CodeIgniter\Model;
class ProductModel extends Model {
    protected $table = 'products';
    protected $primaryKey = 'id';
    protected $allowedFields = ['product_name', 'description', 'price'];
    // Create
    public function createProduct($data) {
        return $this->insert($data);
    }
    // Read
    public function getProduct($id) {
        return $this->find($id);
    }
    // Update
    public function updateProduct($id, $data) {
        return $this->update($id, $data);
    }
    // Delete
    public function deleteProduct($id) {
        return $this->delete($id);
    }
}

```

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');
```