ECommerce Dashboard Documentation

1. Introduction

This document provides an overview of the ECommerce Dashboard built with CodeIgniter 3. The system allows users to manage Stock, Production, Sales, Invoices, and Expenses with CRUD functionalities.

1. System Requirements

Software Requirements:

- Web Server: Apache server

- Database: MySQL

- Backend: PHP 7.4 with CodeIgniter 3

- Frontend: Bootstrap, jQuery

Hardware Requirements:

- Minimum 4GB RAM

- 20GB Storage

- Dual-core Processor

3. Project Structure

The project follows the MVC pattern:

- Controllers : Handle user requests

- Models : Interact with the database

- Views : Display data to the user.

Folder Structure:

application/

├── controllers/

│ ├── StockController.php

│ ├── ProductionController.php

│ ├── SalesController.php

│ ├── InvoicesController.php

│ ├── ExpensesController.php

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├── models/

│ ├── Stock\_model.php

│ ├── Production\_model.php

│ ├── Sales\_model.php

│ ├── Invoices\_model.php

│ ├── Expenses\_model.php

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├── views/

│ ├── StockView/

│ ├── ProductionView/

│ ├── SalesView/

│ ├── InvoicesView/

│ ├── ExpensesView/

4. Database Schema

Tables:

- stock(id, item\_name, quantity, created\_at)

- production(id, product\_name, quantity, created\_at)

- sales(id, product\_name, quantity, total\_price, created\_at)

- invoices(id, invoice\_number, customer\_name, total\_amount, created\_at)

- expenses(id, description, amount, created\_at)

5. Modules Overview

Stock Module:

- Manage inventory items.

- CRUD operations.

Production Module:

- Track production of items.

- Manage production records.

Sales Module:

- Record and view sales.

- Update sales data.

Invoices Module:

- Generate and manage invoices.

- View invoice history.

Expenses Module:

- Track company expenses.

- View expense reports

6. System Flow

Flow of Data:

1. User logs in and accesses the dashboard.

2. User selects a module (Stock, Production, Sales, etc.).

3. CRUD operations are performed via forms.

4. Data is stored/retrieved from the database.

5. Reports are generated and displayed.

7. Installation Guide

1. Clone or download the project.

2. Configure database settings in `application/config/database.php`.

3. Import `sample\_ecomm.sql` into MySQL.

4. Run the project using `localhost/`sample.

8. Usage Guide

- Stock Management : Add, edit, delete stock items.

- Production Tracking : Register new production.

- Sales Management : Add sales records.

- Invoice Handling : Generate and view invoices.

- Expense Tracking : Log company expenses.

9. Conclusion

This project provides a simple yet efficient way to manage ECommerce stock, sales, and financial transactions. Future enhancements may include user authentication and analytics.