**Stock Management System - Documentation Plan**

**1. Project Overview**

The Stock Management System is a simple Laravel-based web application designed to help manage products, categories, and stock movements (stock-in and stock-out).

**2. Functional Requirements**

* Manage Categories (Create, Read, Update, Delete)
* Manage Products (Create, Read, Update, Delete)
* Handle Stock Movements (Add stock-in / stock-out entries)
* Display Stock Summary
* Basic User Management (Optional)

**3. Database Design (ER Diagram Explanation)**

**Tables:**

**categories**

* id (Primary Key)
* name (String)

**products**

* id (Primary Key)
* name (String)
* category\_id (Foreign Key -> categories.id)
* sku (String)
* quantity (Integer)

**stock\_movements**

* id (Primary Key)
* product\_id (Foreign Key -> products.id)
* type (Enum: 'in', 'out')
* quantity (Integer)
* remarks (Text)

**users** (Optional if authentication is added)

* id (Primary Key)

**4. Pages / Modules**

**4.1 Dashboard**

* Quick overview of total products, total stock in/out.

**4.2 Category Management**

* List all categories
* Add new category
* Edit category
* Delete category

**4.3 Product Management**

* List all products
* Add new product
* Edit product
* Delete product

**4.4 Stock Movement Management**

* List all stock movements
* Add new stock-in
* Add new stock-out
* View stock history per product

**5. User Roles (Optional)**

* Admin: Full access
* Staff: Limited to stock management

**6. Technologies Used**

* Backend: Laravel 11
* Frontend: Blade templates (or Livewire for interactive)
* Database: MySQL
* Authentication (Optional): Laravel Breeze or Fortify

**7. Future Enhancements**

* Export stock reports (PDF/Excel)
* Stock Alert Notifications
* Role-based Permissions
* API support for Mobile app

**End of Documentation Plan**