Batam, 20 Feb 2025

PDD REVISION 2.0

1. Changes Implemented

The following enhancements and modifications have been made to the system:

- Added the "Document Maintenance" feature to manage machine-related documents, including adding, updating, and deleting documents dynamically.
- Made the "Machine Document" feature more dynamic, with an interactive table, modals, and flexible UI elements for easier document management.
- Made the "Product Document" feature more dynamic, by implementing a table system, modals, and more flexible UI components for better product document management.
- Updated the dashboard to be more dynamic, allowing it to display documents based on Machine-Based Documents and Product-Based Documents, with automatic updates.
- Integrated all four features, ensuring that any document changes (additions or deletions) are automatically reflected across all relevant features.
- Centralized document management through the "Document Maintenance" feature, serving as the primary control panel for all document-related operations.
- Implemented additional improvements to enhance system stability and efficiency**.**

2. List of Changes

No	Section Revised	Changes Implemented
1	**Document Maintenance**	Added a core feature to manage machine-related documents, including adding, updating, and dynamically deleting documents.
2	**Machine Document**	Transformed machine document management into a more interactive display with dynamic tables, modals, and flexible UI elements.
3	**Product Document**	Improved product document management with a dynamic table system, modals, and flexible UI elements for better usability.
4	**Dashboard**	Updated the dashboard to display documents based on **Machine-Based Documents** and **Product-Based Documents**, with real-time updates.
5	**Feature Integration**	Ensured all four features are interconnected, so any document modifications (additions or deletions) are instantly reflected across all relevant sections.
6	**Document Maintenance**	Established this feature as the main control panel for organizing and managing all documents efficiently.
7	**Additional Improvements**	Made several system optimizations to improve stability, performance, and operational efficiency.

3. Database Change Implementation Guide

To ensure the system changes are properly applied, follow these database update steps:

Steps:

a. Backup the Database
   - Before making any modifications, create a backup to prevent data loss.

b. Adding a New Table
   - To support the new features, add the document_types table to the database. This table will be used to categorize document types, such as machine maintenance documents or product-related documents.

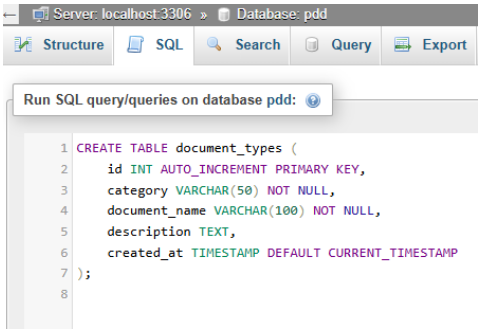
   Steps to Add a Table in phpMyAdmin:

   1. Open phpMyAdmin
      ✓ Access phpMyAdmin through your browser by navigating to http://localhost/phpmyadmin/

   2. Select the Database
      ✓ Choose the database pdd

   3. Create a New Table
      ✓ Click on the "SQL" tab to add the table using an SQL query

   4. Define the document_types Table Structure
      ✓ Execute the following script to create the table:

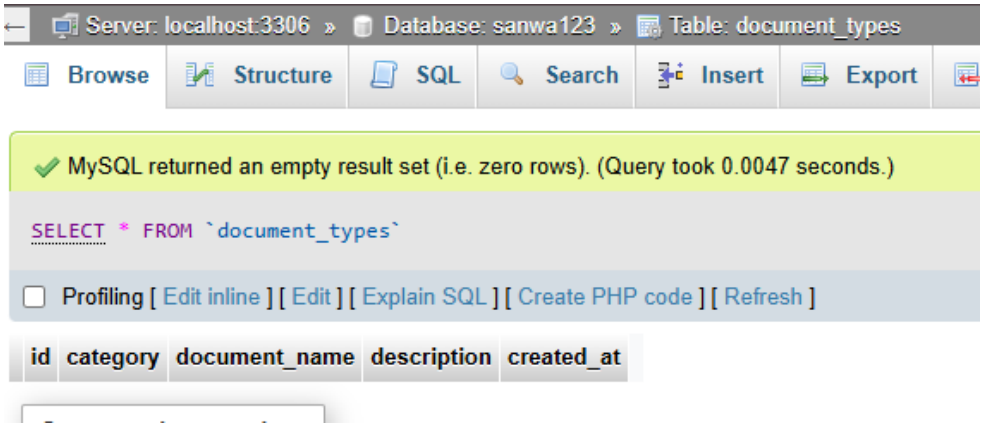



```
CREATE TABLE document_types (
    id INT AUTO_INCREMENT PRIMARY KEY,
    category VARCHAR(50) NOT NULL,
    document_name VARCHAR(100) NOT NULL,
    description TEXT,
    created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);
```

   5. Save the Changes
      ✓ Click the "Go" button to run the command.

   6. Verify the Table
      ✓ Ensure that the document_types table has been successfully created by checking the list of tables in the database.

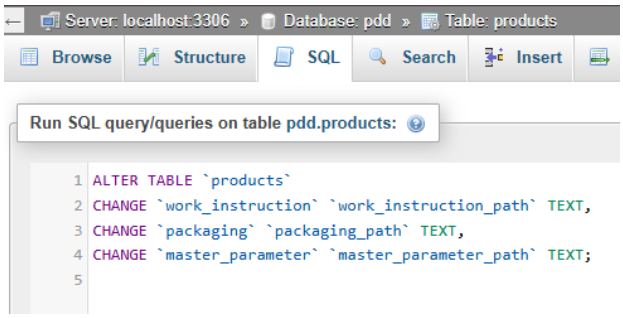
   7. Check the Display
      ✓ After successfully creating the table, make sure the table appears correctly in phpMyAdmin, as shown in the screenshot below:



c. Renaming Columns in products and machine_documents Tables

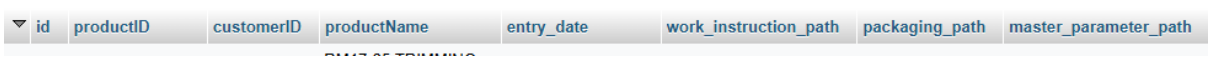
✓ After accessing the database in phpMyAdmin, rename the columns by executing the following SQL commands:

i. Rename Column in products Table




```
ALTER TABLE `products`
CHANGE `work_instruction` `work_instruction_path` TEXT,
CHANGE `packaging` `packaging_path` TEXT,
CHANGE `master_parameter` `master_parameter_path` TEXT;
```

Final structure



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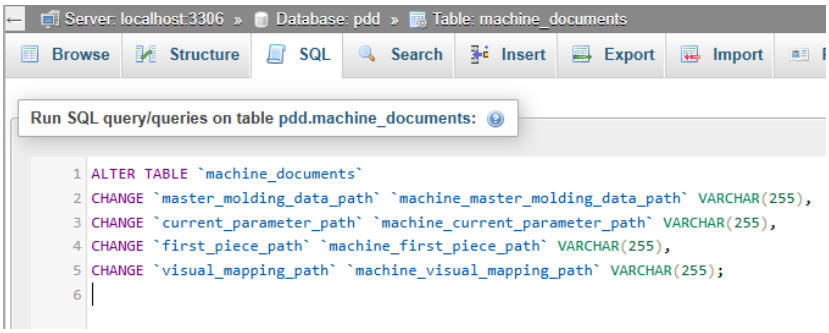
ii. Rename column in machine_documents table




```
ALTER TABLE `machine_documents`
CHANGE `master_molding_data_path` `machine_master_molding_data_path` VARCHAR(255),
CHANGE `current_parameter_path` `machine_current_parameter_path` VARCHAR(255),
CHANGE `first_piece_path` `machine_first_piece_path` VARCHAR(255),
CHANGE `visual_mapping_path` `machine_visual_mapping_path` VARCHAR(255);
```

Final structure

machine_master_molding_data_path	machine_current_parameter_path	machine_first_piece_path	machine_visual_mapping_path

Noted :

This change (add _path) is intended to ensure that the code recognizes these columns as storing file paths for display purposes.