

Web Application for Output Visualization in Processes

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ABSTRACT

This apprenticeship is part of the Bachelor of Computer Science program, during which the student worked at Murata Electronics (Thailand), Ltd. The objective is to gain real-world work experience and develop professional skills. The assigned project involves developing a Web Application for Output Visualization in Processes using PHP, along with designing the user interface (UI) with JavaScript and HTML to enhance the efficiency of data retrieval and management. The outcome shows that the system functioned reliably and received positive feedback from the employees who used it. In addition, the student acquires valuable skills in teamwork, problem-solving, and organizational communication, which will serve as important experiences for future career development.

INTRODUCTION

In the present era, managing production processes within factories has become increasingly complex. Therefore, it is necessary to have a system that can effectively display and track the status of each stage of work. This enables employees and supervisors to analyze, improve, and resolve issues that arise in the production process in a timely manner.

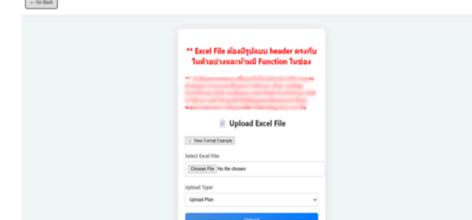
This project focuses on developing a web application to display the output of each stage of the production process within a factory. The system will operate on an intranet without an internet connection to ensure the security of internal organizational data.

CONCLUSION

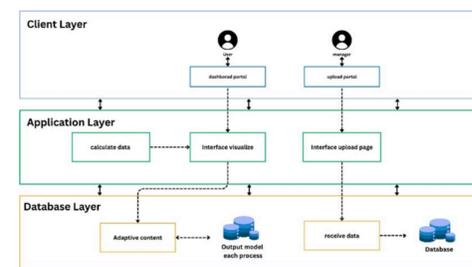
Due to user requirements, the system focuses primarily on display functionality for use within the factory. Therefore, it includes a limited number of processes or functions and emphasizes the ability to operate continuously and reliably over long periods. Based on testing results, the system performs as expected and correctly.

INTERFACE AND ARCHITECTURE DESIGN

dashboard page



Upload data page



Architecture diagram

TECHNOLOGY



IDE

Language



DBMS

Tools

Server