IoT Device Sales Online System

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ABSTRACT

This project on the online IoT equipment sales system aims to study and understand both Frontend and Backend Development, as well as the Architectural Design used in website development. The objective is to learn the fundamental principles and techniques required for designing and developing an online IoT equipment sales system. The project involves researching existing market websites to analyze their processes and integrate the gathered information into the system's workflow design.

The project is divided into two main sections: the general user section and the administrator section. The system facilitates a more convenient online purchasing experience for users while enabling administrators to efficiently manage product information. The designed website emphasizes ease of use and effectively supports IoT equipment sales through search functionality and product-related features that align with user needs.

INTRODUCTION

The IoT Device Sales Online System is an internal project developed to sell IoT devices created by the company's team through an online platform. This project focuses on both Frontend and Backend Development, aiming to build an efficient and structured e-commerce system.

Currently, the company does not have a platform to sell its self-developed IoT products online. Therefore, this website was developed to enable the company to market and sell its IoT devices through an online platform.
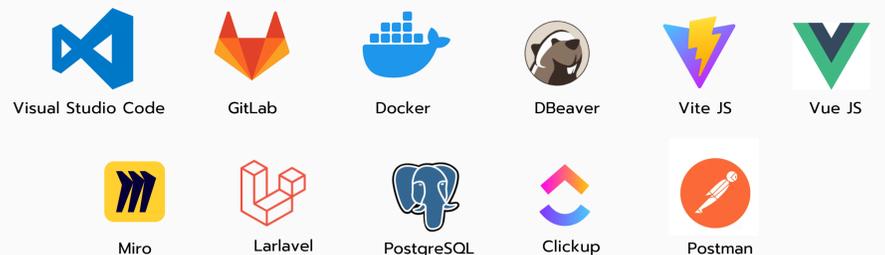
CONCLUSION

The IoT Device Sales Online System effectively manages key processes such as adding products to the cart, searching, order creation, and product/category management. It also supports product recommendations, news updates, and order tracking from purchase through shipping to confirmation. However, the system still relies on manual order verification, which may result in errors, and lacks features like customizable homepage settings through the API and a chat system for user inquiries with the admin. These areas present opportunities for further improvement in system automation and user interaction.

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TECHNOLOGY

Visual Studio Code	GitLab	Docker	DBeaver	Vite JS	Vue JS
Miro	Larlavel	PostgreSQL	Clickup	Postman	

METHODOLOGY

Get requirement → Backlog → Daily Scrum Meeting → Sprint Planning → Sprint Review → Sprint Retrospective