Job Baking Alarm Website

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Abstract

The development of a website for notifying the removal of workpieces from an oven has the objective of facilitating the transmission of notifications of completed baked workpieces to the central notification system, known as the Prompt Service Team (PST) system, while also storing baking data of workpieces and assisting in the large amount of information management within the baking process.

The website was developed on the basis of UX/UI [1] principles, using Vue 3 as the primary language for front-end development and using JavaScript and Node.js for back-end development. The website was designed for running on both computers and mobile phones. The computer version is used for managing all baking data, while the mobile phone version is used for registering workpieces prior to the baking process.

Introduction

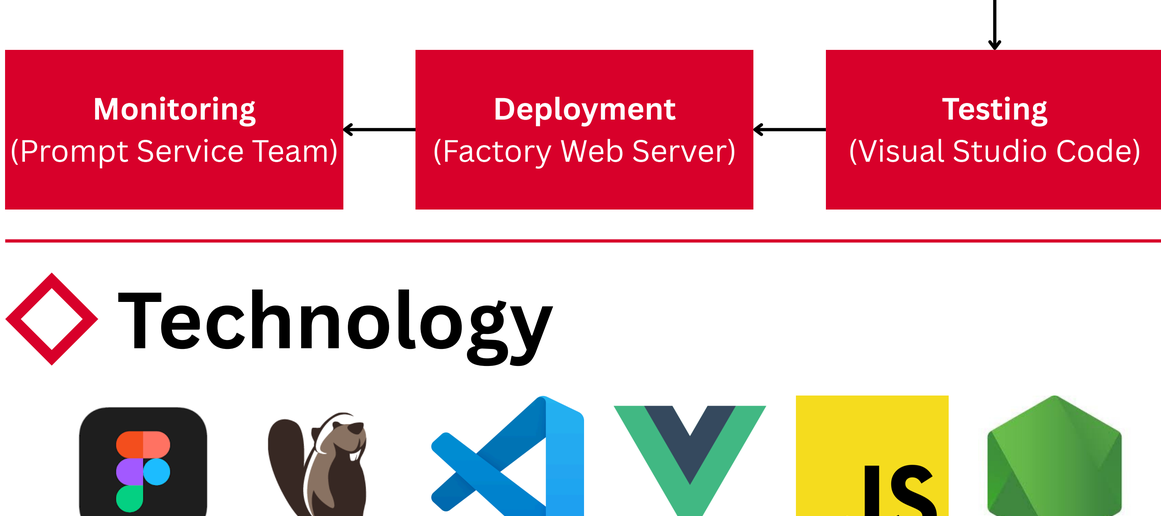
Murata Electronics (Thailand), Ltd. is a company that manufactures and exports high-quality electronic components. The company requires a notification system for ovens used in the production of PAC (Polymer Aluminum Electrolytic Capacitors) components by developing a website to manage notifications related to the baking process, using Vue 3 as the primary language for website development.

Methodology

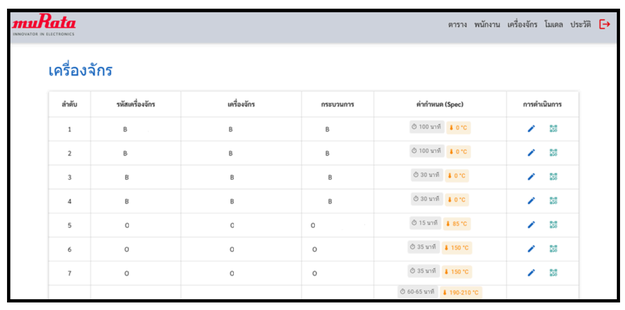
Requirements Gathering (Interview) → **System Design** (Figma, DBeaver) → **System Development** (Visual Studio Code) → **Testing** (Visual Studio Code) → **Deployment** (Factory Web Server) → **Monitoring** (Prompt Service Team)

Technology

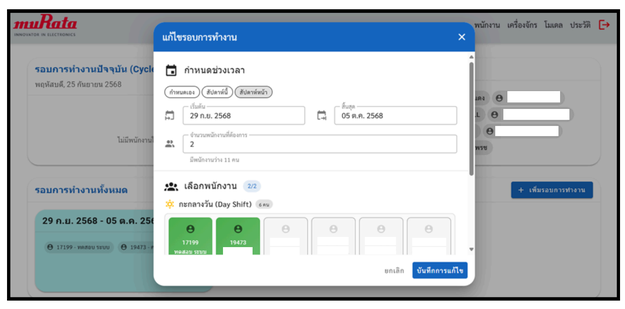
Architecture

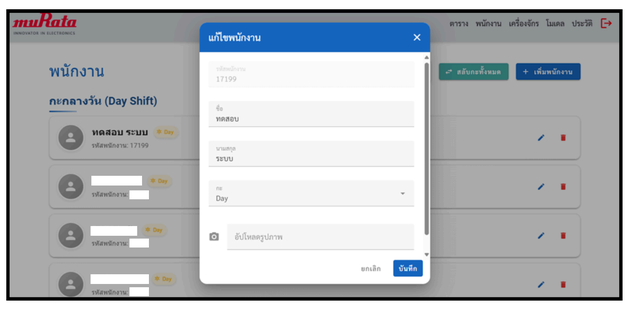


Result

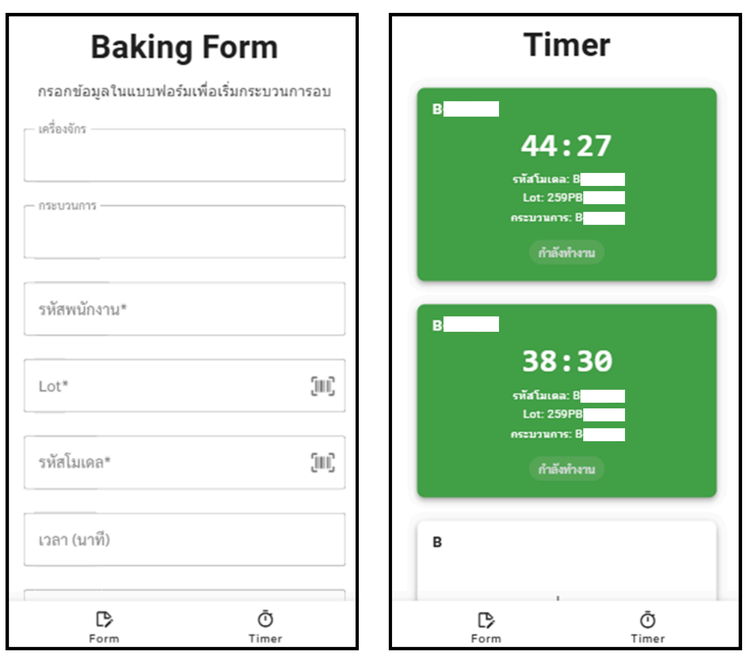








Desktop Version



Mobile Version

Conclusion

In the development of the Baking Alarm website, a new website was created with the primary objective of sending notifications when a workpiece has completed the baking process. The system allows users to view the expected completion time of each workpiece and facilitates convenient management of all data within the baking process.

The results obtained from the development and system testing were satisfactory. The website was able to operate according to its intended objectives and functioned as expected on both desktop computers and mobile devices.

References
[1] What is the difference between UI and UX?. Available at: URL: https://www.figma.com/resource-library/difference-between-ui-and-ux/. Accessed February 17, 2026.