

ABSTRACT

The development of a web-based interactive PhotoBooth system was initiated as a response to the limitations in flexibility, interactivity, and scalability commonly found in conventional photobooths. It also serves as a strategic initiative by Techno Infinity to enter the creative industry market with ready-to-use digital products. This system is designed to be accessible directly via web browsers without the need for additional software installation, offering greater flexibility, cost-efficiency, broad accessibility, and compatibility across various devices. Key features of the system include automated photo and GIF capture, customizable layout and decorative frame selection, interactive face filters, unique voucher-based access, and digital payments via QRIS and Virtual Account through integration with the Midtrans service. From a technological perspective, the system was developed using a modular and integrated architecture, utilizing Next.js as the modern frontend framework, Laravel for backend dashboard management, and cloud storage integration through Supabase, Firestore, and Google Drive to ensure efficient distribution and secure media storage. The development process involved competitor analysis, user flow planning, interface design with Figma, progressive internal testing, and interactive implementation using JavaScript and third-party APIs for features such as face detection and media delivery. This project was carried out during the author's internship as a Front-End Developer at Techno Infinity, following a collaborative workflow with cross-functional development teams. The final outcome is a working prototype of the PhotoBooth application capable of operating in real-time, automated, and dynamic scenarios while enhancing user engagement across various events. This approach not only delivers a visually engaging and personalized experience but also opens new monetization opportunities and strengthens Techno Infinity's value proposition in the digital creative ecosystem.

Keywords: *Web-based PhotoBooth, Next.js, Laravel, Creative Industry, Front-End Developer, QRIS*