# DESIGNING A WEB-BASED CAMERA RENTAL INFORMATION SYSTEM

## (Case Study: Kamberss Camera Solo)

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**ABSTRACT**

Kambers Kamera Solo currently processes camera rental registrations and transactions manually, which limits speed, accuracy, and data management efficiency. Additionally, customers face challenges in accessing camera availability information and placing orders conveniently and effectively. This research aims to design and develop a website-based camera rental and registration information system to enhance service efficiency and data management at Kambers Kamera Solo. The methodology includes needs analysis, system design, implementation, and testing using black-box techniques. The system was developed using Next.js for the frontend, Node.js for the backend, PostgreSQL as the database, and integrated with Midtrans as the payment gateway and Vercel for frontend deployment. The results demonstrate that the developed system enables customers to register and order cameras online seamlessly. Moreover, it assists administrators in managing product, customer, and transaction data in a structured and accurate manner. Consequently, this system improves operational efficiency and overall service quality at Kambers Kamera Solo.

**Keywords**: Information System, Camera Rental, Next.js, Node.js, Midtrans