

RANCANG BANGUN APLIKASI RANINSA CAKE BERBASIS WEB DENGAN MENERAPKAN ONE TIME PASSWORD (OTP) DAN SSO

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ABSTRACT

This study aims to design and develop a web-based sales application for Raninsa Cake by implementing One Time Password (OTP) and Single Sign-On (SSO) security mechanisms. Raninsa Cake is a culinary business that previously managed sales and order records manually, resulting in order errors, inefficient data management, and the absence of secure user authentication. The system development uses the Waterfall method, which consists of analysis, design, implementation, testing, and maintenance stages. The application was developed using the Laravel framework and MySQL database. Authentication was implemented through two methods: email and password login with OTP verification, and Single Sign-On (SSO) using a Google account. System testing was conducted using the Black Box Testing method to ensure that all system functionalities operate according to the defined requirements. The research results showed that the application successfully generated OTP and SSO logins and improved the efficiency of the ordering process, transaction management, and system security. Therefore, this application was considered suitable for use as a secure, efficient, and integrated online sales platform for Raninsa Cake.

Keywords: Web Application, Sales System, OTP, SSO, Waterfall