

ABSTRACT

FRONT-END ANALYSIS AND IMPLEMENTATION FOR DESASAHOME DECOR STORE INFORMATION SYSTEM WITH E-COMMERCE INTEGRATION

By

Karina Adityas Ramadhanti

Founded in 2015, Desasa Home Decor offers stylish interior solutions and leverages Shopee for broader market reach. However, managing transactions across multiple platforms introduces challenges, such as variations in order quantities and inventory. This study proposes an integrated system using User-Centered Design (UCD) for a user-friendly experience and CodeIgniter 4 for its intuitive interface. Extreme Programming (XP) will be adopted as the development methodology to ensure flexibility and rapid iteration. Testing methods will include the System Usability Scale (SUS) for user feedback, Responsively App for cross-device compatibility, Lighthouse by DevTools for performance evaluation, and Axe by Deque for accessibility assessment. The objective is to enhance Desasa Home Decor's competitiveness, improve customer service, and streamline operations in the dynamic e-commerce environment.

Keywords: Desasa Home Decor, integrated system, User Centered-Design (UCD), CodeIgniter 4, Extreme Programming (XP)