

ABSTRACT

Ngolab is a startup platform operating in the food, beverage, and retail sectors, aimed at meeting the needs of the Telkom University community. As it grew, Ngolab encountered various challenges in managing raw material inventory for its food and beverage production. The menu selection process for production was often inefficient and time-consuming due to manual checks. This reliance increased the likelihood of errors in stock counts, which could lead to wasted materials or product shortages. To address these issues, an iOS-based front-end application was developed as a raw material recommendation system. This application was specifically designed for Ngolab's production team. Using image recognition technology, the team simply scans the available raw materials, and the system automatically analyzes them to provide suggestions for the most likely finished products. This application makes production decision-making faster, more precise, and data-driven. This not only improves raw material utilization and reduces waste but also aligns with Ngolab's vision to become an innovative startup by implementing digitalization in every aspect of its operations.

Keywords: Ngolab, Startup, iOS, Raw Material Recommendation, F&B, Inventory Management.