**ABSTRACT** 

The operational monitoring system of food and beverage (F&B) stores is becoming

increasingly important to ensure efficiency and safety. This research aims to develop

an IoT (Internet of Things) system using more than one IP-cam integrated with a

Flutter-based mobile application. The system uses Raspberry Pi and Firestore to

support real-time monitoring. By implementing a phased iterative approach, the

system is designed to provide a practical solution for point-of-sale (F&B) managers to

optimize operations management and improve customer experience. Tests were

conducted to evaluate the system's performance in real-life scenarios. The results

show the potential to improve the efficiency and effectiveness of operational

monitoring.

Keywords: Monitoring System, Internet of Things, IP Camera, Flutter, Raspberry Pi,

Iterative Incremental

٧