

NGIDER: Online Tracking and Transaction for Peddlers Application Based on Android

Alyaa Dhifa Putri Pramono | Fayyaza Puan Manayra

SMA Negeri 3 Semarang, Semarang, Jawa Tengah 50132

ABSTRAK

Kemajuan teknologi pada era digital ini telah mendatangkan banyak kemudahan bagi kehidupan masyarakat Indonesia, salah satunya pada aspek jual beli. Maraknya aplikasi jual-beli makanan memicu maraknya perkembangan usaha makanan online yang umumnya diikuti oleh pedagang makanan menengah ke atas. Di sisi lain, pedagang kecil seperti pedagang keliling mengalami penurunan omset akibat kecenderungan konsumennya untuk membeli makanan secara online. Aplikasi NGIDER dibuat sebagai solusi untuk membantu meningkatkan perekonomian para pedagang keliling, dengan mempertemukan penjual dan pembeli secara langsung. Aplikasi ini dibuat menggunakan Android Studio dengan bahasa pemrograman Java, dan telah dilakukan pengujian menggunakan adaptasi dari ISO/IEC 25010. Hasil pengujian menyatakan bahwa aplikasi NGIDER dapat beroperasi dengan baik dan lancar menurut pengujian *Blackbox*. Efektivitas aplikasi NGIDER diuji menggunakan survei SUS memperoleh skor rata-rata 79,41 (*grade B/ Good*) yang artinya Aplikasi NGIDER berjalan dengan cukup efektif. Aplikasi NGIDER juga dinyatakan berhasil dalam memenuhi kepuasan penggunaannya berdasarkan pengujian melalui skala Likert, dengan hasil raihan skor 80,13% (Sangat Puas) untuk pedagang dan 80% (Sangat Puas) untuk pembeli. Sementara, Aplikasi NGIDER meraih kategori “Sangat Layak” berdasarkan hasil kuesioner USE dengan nilai *usefulness* sebesar 90,60%, *ease of use* sebesar 89%, *ease of learning* sebesar 87,50%, dan *satisfaction* sebesar 92,20%.

Kata kunci: Aplikasi, Android, Android Studio, Pedagang Keliling

ABSTRACT

Technological advances in this digital era have brought many conveniences to Indonesian people, including the buying-selling aspect. The rise of food buying and selling applications has sparked online F&B development, generally followed by middle to upper-class food merchants. On the other hand, small traders such as peddlers have experienced a decrease in turnover due to the tendency of consumers to buy food online. The NGIDER application was created as a solution to help improve the economy of peddlers, by contacting the sellers and buyers directly. This application was created using Android Studio with the Java programming language and has been tested with an adaptation of the ISO/IEC 25010 test. The test results state that the NGIDER application can operate properly according to Blackbox testing. The effectiveness of the NGIDER application was tested using the SUS survey, obtaining an average score of 79.41 (grade B/Good), which means that the NGIDER application is running quite effectively. The NGIDER application also successfully met user satisfaction based on testing via Likert scale, with a score of 80.13% (Very Satisfied) for peddlers and 80% (Very Satisfied) for buyers. Meanwhile, the NGIDER application won the "Very Eligible" category based on the results of the USE questionnaire with a usefulness value of 90.60%, ease of use of 89%, ease of learning of 87.50%, and satisfaction of 92.20%.

Keywords: Application, Android, Android Studio, Peddlers