

ABSTRACT

Traffic congestion has become a common phenomenon in big cities, including Bandung district. One of the main causes of congestion is the increase in the number of vehicles that exceed the road capacity. This is especially true at road intersections during peak hours, such as morning and evening. Telkom University, a private campus in Bandung, often experiences congestion due to the large volume of vehicles, especially from students who use two-wheeled vehicles individually. This situation also causes difficulties in finding parking lots in the campus area. Therefore, this project aims to develop a mobile application called NebengDong, an Android-based platform that facilitates ride sharing between Telkom University academic community. The application allows users to act as passengers (nebengeng) or drivers (nebengin), considering optimal travel routes and departure times. NebengDong also integrates Firebase Console services, ensuring a connected and dynamic experience for users by managing authentication, storing and displaying data in real-time, and providing relevant notifications in every interaction. This application is expected to reduce congestion around Telkom University and facilitate parking accessibility for users. Thus, NebengDong is not only an alternative transportation solution, but also a step towards more efficient and sustainable mobility.

Kata kunci: Congestion, Android, Nebeng, Telkom University