

ABSTRACT

People with disabilities in Indonesia face many challenges in accessing public transportation due to the lack of facilities that support accessibility, such as ramps, special lanes, and adequate lifts. Public transportation designs that often do not consider the needs of wheelchair users or the visually impaired, as well as a lack of training for transportation officials, exacerbate this situation. These conditions limit the mobility of people with disabilities and impede their access to education, employment and health services. The project “TRANSITNEARME: Development of a Mobile-Based Public Transportation Application for Persons with Disabilities” uses the Waterfall method, which consists of the stages of requirements analysis, system design, implementation, testing, deployment, and maintenance.

This project developed an application that facilitates access to public transportation for people with disabilities with various features, such as stop information, routes, operating hours, and emergency buttons. The app also has special features for drivers, such as setting the duration of stops (ngetem) and emergency notifications. In addition, public transportation data management features for operators include route, fare, and vehicle data input. With the Flutter framework, Usability Testing, this application is expected to improve the accessibility of public transportation for people with disabilities. The project also recommends infrastructure improvements, such as the accessibility of special school buses, as well as the development of a disability-friendly transportation search application. Collaboration with disability organizations and training for drivers and transportation staff were also emphasized to create a more inclusive transportation environment.

Keywords: People with disabilities, public transportation, mobile application, accessibility.