ABSTRACT

The development of electric vehicle technology in Indonesia continues to increase, supported by government policies and increasing public awareness of environmentally friendly vehicles. In Indonesia, electric vehicle sales have increased in 2022. To support the electric vehicle ecosystem, the KedaiCas application was developed, which is a digital platform that aims to increase the efficiency of electric vehicle users in finding Charging Stations and charging electric vehicles and providing information to users regarding the availability of Charging Stations and the charging status of the user's electric vehicle. The KedaiCas application has several main features, such as navigation to the nearest Charging Stations, real-time information on charger box availability, flexible charging methods, a digital payment system, and additional features such as multilingual support and vehicle data storage. The development of the KedaiCas application uses the agile method, allowing a flexible, collaborative and iterative process in adjusting features according to user needs. In addition, KedaiCas was developed using Flutter, an open-source framework that allows applications to be developed on multiple platforms. The results of the KedaiCas development are expected to provide an effective solution for electric vehicle users in accessing charging services more easily and transparently. With this application, it is hoped that it can encourage increased use of electric vehicles and support better charging infrastructure in Indonesia.

Keywords: electric vehicle, charging station, KedaiCas, charging, mobile application