ABSTRACT

Congestion is a situation or traffic situation caused by an imbalance in the number of vehicles with road capacity. Unbalanced congestion causes a lot of time lost and the queue of vehicles increases. Currently there are many parking systems that implement automatic parking systems that are connected to the database as part of the parking system security. The parking system uses the Quick Response Code (QR Code) which is a bar code development that was initially used for commercial purposes, along with the development of the QR Code for public use. So in this study the QR Code as parking data begins with scanning the QR Code of the application users that is adjusted to the QR Code that is connected in the database. In the smart parking application installed on the smartphone, the user can find out the user's identity, parking space, parking hours, and costs that have been finished by the application user. So that with the existence of a smart parking system that is integrated with the database after passing through the use of the application provides security and comfort for application users.

Keywords: *Database, QR code, System Parking*