

ABSTRACT

Android is one of the operating systems used on smartphones. Along with rapid technological developments, currently Android-based smartphones are not only used for calling and sending messages, but can be a device that simplifies life through various applications with diverse features. One of them in the parking zone, using Android-based smartphone vehicle owners can find out the latest information on a parking zone, such as how many parking slots are available, the location of the parking slots are already filled and still empty, even with Android-based smartphone applications vehicle owners can indirectly guided to the location of the occupied parking slot.

The method of controlling Android-based smartphone applications is done through the exchange of data wirelessly. The applications interface will bring information to the owner of the vehicle, such as a fully charged parking slot marked with a red block, still empty with a green block, the remaining number of parking slots and a guide to occupy an empty parking slot. In addition to Android-based smartphone applications there are other features, namely automatic parking gate control system. During this time, the process of entering and exiting the parking zone is considered less practical because it still uses parking tickets that are prone to missing if forgotten where to store the tickets, it needs a more modern system and facilitate vehicle owners.

Android-based smartphone applications and automated parking gate control systems are predicted to reduce existing problems in parking zones, such as vehicle owners who find it difficult to find empty parking slots, parking tickets stuck in the machine when they are picked up, park parking zone gates that close before time and even vehicle override cases such as vehicle owners who have entered the parking zone but did not get the parking because it is full. With this research is expected to all parking zones in the future can use a system that has been integrated with Android-based smartphone to be more attractive, superior and modern.

Keywords : Android, application, parking zones control system