

## *ABSTRACT*

*The development of transportation is very rapidly every day, especially the increase of private vehicles are more in line with population growth. This causes have some various problems in the car parking area, especially the parking area of a large region such as the campus area. One way to avoid the problems that happen is to get information about the driver of an empty parking slot at a parking location.*

*To build a system that can provide information about the empty parking lot location needed a server for data storage and data processing. The server stores all the information regarding the parking slot and will provide the information to the driver. The driver can check the availability of parking locations with access to specific applications on android.*

*Based on the problems above, the final project will be implemented smart parking system by detecting the availability of car parking using the camera. Data from cameras that have been processed then be sent to the server. Server duty to record the parking lot where the contents are empty or parking and record history to be used as a payment system. All data will be stored in the database. Server was developed to facilitate the information sent to the driver with a total value of delay is 71,227 ms.*

*Keyword : smart parking, database, server.*