

ABSTRAK

33% kendaraan angkutan barang di Kabupaten Bangkalan memilih fasilitas parkir *on street* yang menyebabkan permasalahan ketersediaan ruang parkir badan jalan dan berdasarkan hasil survei terhadap kendaraan angkutan barang di Kabupaten Bangkalan juga lebih memilih memanfaatkan fasilitas pergudangan sebesar 30%, aktivitas bongkar muat sebesar 22% dan melakukan istirahat sebesar 12%.

Dengan tingginya pola pergerakan kendaraan angkutan barang di Kabupaten Bangkalan, maka diperlukan perancangan suatu sistem informasi yang dapat memberikan solusi dalam hal efisiensi bagi pengendara angkutan barang, dengan memberikan informasi yang jelas mengenai ketersediaan slot pergudangan, parkir, serta efektifitas bagi pengelolaan lahan parkir dengan mempermudah dalam melakukan monitoring dan analisa penggunaan parkir.

Bentuk penelitian ini menggunakan penelitian dan pengembangan atau disebut *Research and Development* yang mengembangkan teknologi sistem informasi berbasis dengan *model waterfall* serta metode kuantitatif untuk data. Pembuatan *website* sistem informasi *silamelleah* berdasarkan kebutuhan proses kebutuhan data kendaraan dan slot lokasi parkir dan pergudangan yang ada di Bangkalan. Berdasarkan ujicoba *website* menggunakan metode *Black Box*, tidak ditemukan kendala secara teknis dan dapat digunakan sepenuhnya. Sedangkan, berdasarkan *Sistem Usability Scale* mendapat skor 81,7 yang berarti *website* sudah cukup baik dan layak digunakan.

Kata Kunci: Angkutan Barang, Ketersediaan ruang parkir, Pergudangan, *Website*, Metode *Waterfall*.

ABSTRACT

33% of commercial vehicles in Bangkalan Regency choose on-street parking facilities which cause problems with the availability of roadside parking spaces and based on the results of a survey of commercial vehicles in Bangkalan Regency, 30% also prefer to use warehousing facilities, 22% for loading and unloading activities and 12% for taking breaks.

With the high pattern of movement of commercial vehicles in Bangkalan Regency, it is necessary to design an information system that can provide solutions in terms of efficiency for freight drivers, by providing clear information regarding the availability of warehousing slots, parking, and effectiveness for parking lot management by making it easier to monitor and analyze parking usage.

This form of research uses research and development or called Research and Development which develops information system technology based on the waterfall model as well as quantitative methods for the data. Making a website for the silamelleah information system based on the process requirements for vehicle data requirements and parking and warehousing location slots in Bangkalan. Based on the Black Box method website trial, technical identification was not found and it can be fully used. Meanwhile, based on the Usability Scale System, it gets a score of 81.7 which means the website is good enough and feasible to use.

Keywords: *Commercial Vehicles, Availability of parking space, Warehouse, Website, Waterfall Method.*