INTISARI

PERANCANGAN SISTEM INFORMASI PERSEWAAN PERLENGKAPAN PESTA DAN SIMULASI PENERAPAN METODE STEPPING STONE (STUDI KASUS PERSEWAAN TOTOK SRI MURNI SOLO)

Oleh :
Tito Abdullah
09/283697/PA/12672

Penelitian ini dilatar belakangi oleh sistem transaksi persewaan perlengkapan pesta Totok Sri Murni yang masih dilakukan secara manual, yaitu dengan menulis data-data persewaan pada buku catatan dan letak gudang Persewaan Totok Sri Murni yang berada di beberapa tempat di Solo. Hal ini dapat menyebabkan proses pengolahan data-data persewaan membutuhkan waktu yang lebih lama dan alokasi barang dari gudang ke lokasi acara belum teratur.

Oleh karena itu, dirancang sebuah aplikasi Sistem Informasi untuk mengolah data persewaan dengan lebih cepat dan mengatur pencatatan jadwal pengiriman barang yang kemudian diterapkan metode transportasi *North West Corner*, *Least Cost*, *Vogel's Approximation*, dan *Stepping Stone* supaya distribusi pengiriman barang kepada pelanggan optimal. Aplikasi ini dibuat menggunakan *database* dan pemrograman web xampp, sedangkan data persewaan diambil dari observasi buku catatan persewaan.

Hasil penelitian ini berupa website xampp Sistem Informasi persewaan, jalur alokasi barang, dan perkiraan biaya transportasi. Dari data yang diambil pada tanggal 20 April 2016, dapat diperoleh alokasi yaitu gudang P mengirim 25 kursi ke Bapak Anto, 800 Kursi ke Ibu Bella, dan 425 kursi ke Bapak Chairil, lalu gudang M mengirim 225 kursi ke Bapak Chairil, kemudian gudang S mengirim 550 kursi ke Bapak Anto. Perkiraan perhitungan biaya pengiriman adalah Rp 250600,00. Penerapan metode transportasi pada Persewaan Totok Sri Murni saat ini masih belum dapat diterapkan dikarenakan banyak faktor lain seperti barang yang disewa beraneka ragam, data jarak gudang ke lokasi acara yang kurang sesuai dengan lapangan, kecelakaan yang mungkin terjadi, dan lain sebagainya.

Kata Kunci: Sistem Informasi, Persewaan Perlengkapan Pesta, Transportasi, *North West Corner*, *Least Cost*, *Vogel's Approximation*, *Stepping Stone*.

ABSTRACT

DESIGN OF PARTY EQUIPMENT RENTAL AND SIMULATION IMPLEMENTATION OF STEPPING STONE METHOD (CASE STUDY AT TOTOK SRI MURNI RENTAL IN SOLO)

By :
Tito Abdullah
09/283697/PA/12672

This research was motivated by party equipments rental transaction system of Totok Sri Murni which is still written manually by writing the data in the rental notebook, and in case that Totok Sri Murni rental warehouses are located in some places in Solo. This could cause rental data require a longer time to process and the allocation of goods from the warehouse to the event location isn't optimized.

Therefore, an Information System application was designed to process rental data more quickly and set delivery schedule recording of party equipments which then transportation methods such as North West Corner, Least Cost, Vogel's Approximation, and Stepping Stone were applied so that equipments delivery distributions to customers are optimized. This application was created using the database and xampp web programming, while the data was taken through observing notebook rental.

The results of this research was a xampp website of rental information systems, track of the equipment allocations, and an estimation of transportation costs. From the data taken on April 20, 2016, this showed an allocation where warehouse P sent 25 chairs to Mr. Anto, 800 chairs to Ms. Bella, and 425 chairs to Mr. Chairil, then warehouse M sent 225 chairs to Mr. Chairil, after that warehouse S sent 550 chairs to Mr. Anto. Estimated shipping cost calculation was 250,600 IDR. Transportation method at Totok Sri Murni rental is yet to be implemented due to many other factors such diverse items rented, the distance data from warehouse to the event was not relevant to the field, any accident that may occur, and so forth.

Keywords: Information System, Party Equipments Rental, Transportation, *North West Corner*, *Least Cost*, *Vogel's Approximation*, *Stepping Stone*.