

ABSTRAK

Proses pengelolaan usulan inventaris aset di PT Lotte Shopping Indonesia Store Palembang masih menghadapi kendala dalam menentukan prioritas aset yang perlu didahulukan untuk ditindaklanjuti. Hal tersebut disebabkan belum adanya sistem pendukung keputusan yang terintegrasi sehingga proses pengambilan keputusan menjadi kurang objektif dan membutuhkan waktu yang cukup lama. Penelitian ini bertujuan untuk membangun Sistem Pendukung Keputusan (SPK) penentuan prioritas pengusulan inventaris aset berbasis *website* menggunakan metode *Simple Additive Weighting* (SAW). Pengembangan sistem dilakukan dengan metode *Rapid Application Development* (RAD) yang memungkinkan pengembangan aplikasi secara cepat sesuai kebutuhan pengguna. Hasil penelitian ini menghasilkan aplikasi berbasis *website* yang telah diuji menggunakan *Black Box Testing* dengan hasil seluruh fungsi sistem berjalan dengan baik dan sesuai dengan kebutuhan pengguna. Penerapan metode *Simple Additive Weighting* (SAW) berhasil menghasilkan peringkat prioritas usulan inventaris aset berdasarkan nilai preferensi sehingga membantu pihak manajemen PT Lotte Shopping Indonesia Store Palembang dalam menentukan prioritas aset secara lebih objektif, efektif, dan efisien.

Kata Kunci: Sistem Pendukung Keputusan, *Simple Additive Weighting* (SAW), *Rapid Application Development* (RAD), *Website*.

ABSTRACT

The process of managing proposed asset inventory at PT Lotte Shopping Indonesia Store Palembang still faces obstacles in determining the priority of assets that need to be prioritized for follow-up. This is due to the lack of an integrated decision support system so that the decision-making process becomes less objective and takes a long time. This research aims to build a Decision Support System (SPK) to determine the priority of proposing a website-based asset inventory using the Simple Additive Weighting (SAW) method. System development is carried out using the Rapid Application Development (RAD) method which allows application development quickly according to user needs. The results of this research produce a website-based application that has been tested using Black Box Testing with the results of all system functions running well and in accordance with user needs. The application of the Simple Additive Weighting (SAW) method succeeded in producing a priority rating of proposed asset inventory based on preference values so as to help the management of PT Lotte Shopping Indonesia Store Palembang in determining asset priorities more objectively, effectively, and efficiently.

Keywords: Decision Support System, Simple Additive Weighting (SAW), Rapid Application Development (RAD), Website.