

## ABSTRAK

Arstech merupakan sebuah toko yang bergerak dalam penjualan komponen-komponen dasar komputer dan penunjangnya. Sudah cukup lama Arstech menerima pesanan untuk komputer rakitan dengan sistem *ready-stock* maupun *pre-order*, dalam sistem *ready-stock* biasanya pelanggan mendapatkan spesifikasi komputer rakitan dari pihak toko dan komponen-komponennya pun sudah tersedia, sedangkan sistem *pre-order* pelanggan dapat membawa spesifikasinya sendiri berdasarkan kriteria kebutuhan kegunaan pelanggan dan komponen-komponennya pun belum tersedia yang membuat toko harus memesan komponen pada pihak distributor komponen komputer tersebut. Namun sistem *ready-stock* banyak mengalami kerugian dimana barang-barang yang telah distok sebelumnya lama untuk terjual dan harga jualnya sangat turun, jadi pihak Arstech berfokus pada sistem *pre-order* namun sistem ini juga kurang baik karena banyaknya pelanggan awan yang kurang mengerti dengan spesifikasi komputer. Dan pencatatan data masih sebatas penggunaan *excel*. Oleh karena itu diperlukan sebuah sistem yang dapat menangani masalah yang dialami Arstech berupa pengelolaan data distributor, merek, hardware, dan kepegawaian. Serta penggunaan metode *fuzzy logic* dalam penentuan spesifikasi komputer yang dapat disesuaikan dengan kebutuhan pelanggan. Data primer yang digunakan adalah data yang didapat dari Arstech dan data sekunder didapat dari literatur seperti buku, majalah dan internet. Dari hasil penelitian ini dihasilkan suatu aplikasi desktop yang dapat menangani pengelolaan data dan penentuan spesifikasi komputer.

Kata Kunci : Sistem *ready-stock*, sistem *pre-order*, *fuzzy logic*.

## **ABSTRACT**

*Arstech is a store that engages in computer hardwares and supporting base selling. For a long time Arstech received many orders of computers with ready-stock and pre-order methods. In ready-stock method customers get their computer specifications given by store and its hardwares were already available, while in pre-order method customers can customize to their own specifications based on criteria of usability. Sometimes they must delay the delivery of the product because the hardwares were not available and Arstech must order extra hardwares from distributor of each hardware. However, Arstech suffered losses because the goods that have been previously stocked too longer to sell and its price fell down, due to obsolescence Arstech focuses on pre-order method, but this method is not perfect because today many customers who do not understand the specifications of the computer face difficulties in ordering. In additional, the recording of data is still limited to using excel spreadsheets. Therefore, we need a system that can solve these problems experienced by Arstech such as distributor data management, brands data management, hardwares data management, and personnel data management. This application uses fuzzy logic methods in determining the specifications of the computer that can be based in customer needs. The primary data used were obtained from Arstech data and secondary data obtained from the literature such as books, magazines and the internet. The results of this study produced a desktop application that can handle data management and assist customers in determining their computer specifications.*

Keywords : ready-stock method, pre-order method, fuzzy logic.

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