

A Review of Product Price Comparison System Based on Sri Lankan Supermarkets

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Abstract. The number of e-commerce websites increases along with technological advancements and the expansion of e-commerce, but at the same time, it has gotten more challenging for customers to select the best offers from these websites. Data must be filtered and compared with them independently. Even if a lot of work has been put into it, there is still a chance that the outcomes may be ambiguous. In light of the fact that internet prices are updated once or more frequently and there are a large number of product offers available on the internet, automated processes are required for identifying, collecting and comparing price information. People will benefit from it if a comparable system of product prices is developed for supermarkets to use. They are able to get the items at the most affordable price, and they will not be uninformed of the most attractive deals that are offered on supermarket websites. Also, people have made their lives easier since they do not have to wait till a specific time or location to accomplish their shopping because they can shop online at any time and from anywhere. This has resulted in people being able to complete their shopping more quicker. These reasons lead to the design of a product price comparison system that lets users enter their grocery list or a single product, and the system calculates the total price for the grocery list for all supermarkets in their area. Users can then easily locate the supermarkets with the lowest prices and do their shopping at those supermarkets. This system will use web scraping to retrieve product details from the web and then filter and store the filtered data in a database as needed. For filtering and accelerating search results, an indexing-like method will be used.

Keywords: *Web scraping, Price comparison, Web crawling, E-commerce*