Analisis Generator Struktur *General Layout* Menggunakan Elemen Semantik dan Konsistensi Web *Page Layout* Menggunakan *Matching Algorithm* Berbasis *Set Difference* (Studi Kasus: Situs Web Kejaksaan Tinggi Kalimantan Timur)

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Abstract

Consistency is one indicator of Organization Quality, which is a dimension of website quality, and one of the indicators of website usability. According to organization quality and website usability, the consistency of web page layout is how the common layout (format) elements are common to all pages or called by general layouts. Consistency can make it easier for users in terms of navigation. If the "side bar" on page A is on the left, so should be on the other page. Inequality location of the layout makes inconsistency. Web page layout structure data collection uses Chrome Extension, namely by adding additional functions according to semantic elements in the HTML Tree Generator tool, where HTML elements are items in the DOM. Then, the general layout structure generator takes the semantic elements from the most common layout. This check is intended for the structure of the web page layout that has the same elements as the general layout. Matching Algorithm is used to solve the problem of inconsistency in general layout structure, by looking for structure differences using set difference. Determination of each page compared using a mathematical combination function. The output of set difference is in the form of boolean, which if it has one or more differences, then it is false or inconsistent. Research on the consistency of the structure webpage layout of the case studies resulted in an accuracy score of 92.1%. Imperfect scores cause inconsistent website study cases.

Keywords: consistency, general layout, matching algorithm, chrome extension