Abstract

Requirement Elicitation is a crucial process in a system that involves various approaches to gather information from individuals. However, it should be noted that if there are errors in elicitation that are not in line with its scope, it can lead to problems in the subsequent stages. The Tenant Management Application (TESA) is a useful application for monitoring tenant data in room reservations. This application will be used by tenant admins or BTP (Bandung Techno Park) admin and room tenants or customers to facilitate room rentals at BTP. Similarity between Requirement Elicitation and Functional Requirement should occur, but there is an issue of inconsistency between Requirement Elicitation and Functional Requirement, which affects the TESA application. In the TESA documentation, to find the similarities generated by elicitation, similarity between artifacts is required. The results of this similarity store two codes that are the same and at the same level. TESA documentation is text-based, so text preprocessing approaches can be used to process elicitation and its similarity. This research aims to develop an application for measuring text similarity between Requirement Elicitation and Functional Requirement in TESA documentation. This research has produced an application with data processing capabilities for inputting and reading txt files. Furthermore, this application can process the input files using text analysis methods and calculate the level of similarity using cosine similarity. From these measurements, the output of this application will display a similarity graph between Requirement Elicitation and Functional Requirement, which can be used as an alternative recommendation for artifact improvement.

Keywords: software developer, requirement elicitation component, functional requirement, text similarity, semantic similarity.