NARRATIVE SCENARIO-BASED USE CASE RECOMMENDATION SYSTEM USING SEMANTIC TECHNOLOGY AND REPOSITORY

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ABSTRACT

The use case diagram is used in the definition of system requirements. Before the construction of a use case diagram, systems analysts make a scenario that consumers understand more about the system that is constructed so the system analyst have to analyze system requirements. Then the system analyst analyze the need for a re-build use case diagrams. In previous studies, there is a system for the identification of scenarios of use case diagram for the system analyst is not to analyze the needs of beginning. However, such research requires the rule-making scenarios that a system analyst is required to know the rules. While both scenarios are narrative form.

This study builds a working steps to recommend the use cases from the repository of software projects previously based metadata extraction from a narrative scenario. With a system built using this job step, an analyst no longer have to perform construction from initial user case diagram, but can reuse use cases of the use case development projects software stored in the repository. Thus, the system requirements specification process can be accelerated.

By doing extraction on narrative scenarios, the system can help provide advice in the development of the use case diagram and can increase the re-use of previous use cases using repository. Based on test results, interpret kappa values obtained agreement that the system has a substantial proportion of the analysts. It is shown with the resulting optimal kappa value is 0.684169593 at 0.91 threshold.

Keywords : Use Case, Scenario, Natural Language Processing, Semantic, Requirement Engineering