

**DEVELOPING KNOWLEDGE MANAGEMENT
SYSTEM USING ACTION CASE
METHODOLOGY**

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ABSTRACT

Many software applications in the world have been created and developed to help users in their work, but only few of software applications that have been built to fulfil the desires and requirements of user. The research is to find a problem in system development, it concerns for the user requirements in the portal site of FCI. The aim of this research study is to design and develop a knowledge-based academic portal within the content management system (CMS). The CMS was developed based on the user requirements analysis through the combination of the analysis of quantitative methodology for requirement of the system. The spiral method of the SDLC model within life cycles of action research methodology was used to analysis the system requirements for developing the knowledge management system. The cycles of action research is an approach of life cycles for system implementation and problem diagnosing on the website of FCI based on the user requirements by analysis the non-functional and functional requirements through disseminating of the questionnaire. The results of data collection and quantitative analysis were processed through SPSS's application and continued to make the prototype system through the Spiral Model of SDLC. It showed that the results of requirements analysis for knowledge Management system development in the user account for academic portal was the abstract and publication article lists in the academic portal by using a FREE RARS MODEL (*Framework Requirement Engineering, Rudiman Action Research and Spiral Model*).

Keyword: The Free Rars Model, the abstract and publication article lists in the academic portal.