Prioritization of NFRs using Multi-Criteria Decision Making Methods

Abstract

The software engineering is divided into two parts functional requirements (FRs) and non-functional requirements (NFRs) objective of this paper is to classify the Prioritization of Non Functional Requirements (NFRs) by using multi criteria decision making (MCDM) methods. Recently the MCDM are very important for selection of best optimal solution among the different substitutes. Decision making methods (DMM) are selection tools for the managers or decision makers to make future better plans by using qualitative or quantitative data. In this research we take an example of “Institute examination system (IES)” a general idea about DMM and comparison between the two important models, Prioritization of (NFRs) and (MCDM) by using Analytical Hierarchy Process (AHP) method. The research was done by using the information in the literature and expert review. This paper can be used by academics as a foundation for further research and development in the area of decision making models. Decision makers can use this paper for choosing the right DMM in a variety of constraints, such as money and time etc. It can also be used for further development in making standard operational decision making procedures in critical situations.
References


Index Terms

Computer Science
Information Sciences

Keywords

Non-functional Requirements (NFRs), Multi Criteria Decision Making (MCDM), and Analytic Hierarchy Process (AHP).