

QUR'AN VERSE SEARCH APPLICATION WITH CONTENT USING TERM FREQUENCY-INVERSE DOCUMENT FREQUENCY

Student Name : Melly Safitri
Student ID Number : 6304201243
Supervisor I : Kasmawi, M.Kom
Supervisor II : Elvi Rahmi, S.T., M.Kom

Abstract

In the current era of information technology, mobile applications have become the main means for people to access information quickly and efficiently. In this context, the Koran as a source of guidance and guidance for Muslims can also be accessed via mobile applications. This research is an effort to develop an innovative application that utilizes the TF-IDF algorithm to search for Al-Qur'an verses with content that suits user needs. This application aims to make it easier for individuals who want to find verses of the Koran that are relevant to the context they are looking for. The TF-IDF method will be used to analyze the text of Al-Qur'an verses in the digital corpus. In this way, the words in each verse will be rated based on how important they are in the text. The results will be used to generate a list of verses that best match the keywords entered by the user. Apart from technical aspects, this research will also carefully consider user data security factors. Protection of users' personal information and data security in this application is a priority. It is hoped that the results of this research will contribute to the development of applications that are more sophisticated and responsive to user needs in searching for Al-Qur'an verses. It is hoped that the success of this project will open the door to the use of similar text processing methods in various other application contexts.

Keywords: *Android, Search, Al-Qur'an, TF-IDF*