

ABSTARCT

Implementation of the Hajj or Umrah is a very important thing for all Muslims. Currently, smartphone technology can be used as a medium to learn things about the Hajj and Umrah. By utilizing the mobility of this smartphone, if the application Hajj and Umrah guide made will facilitate worshipers. In addition, GPS technology on the smartphone can be used to determine the user's position so that it can be used to handle that one does not get lost when the Hajj and Umrah in Saudi Arabia. Moving on from the description above, will be designed and created a Hajj and Umrah's guide applications based on mobile. In addition, by utilizing the GPS feature contained in the smartphone, can be added a feature that can be used so that a pilgrim is not lost during the implementation of the Hajj in Saudi Arabia. Method of study conducted by literature study, design, implementation, and testing and analysis applications. Based on the tests performed, be concluded that the application of Hajj and Umrah guide can be implemented properly, it is visible from the average value of the index of success, which reached 3,9.

Key Word: *Mobile Application, Android, Hajj Guide, LBS, Geolocation*