

## ABSTRACT

The globalization era has now entered Industry 4.0 where technology has developed tremendously, to the point where people rely on technology on even doing their daily activities. In addition to the globalization, the Covid-19 pandemic has forced the entirety of the world to change their whole way of living, from being able to go outside to being forced to stay in their home to prevent unwanted infection of the virus. In response to these conditions, Muslims must be able to cope with the challenges they face in order to adapt and make alternative decisions for the community. Most Muslims now have an app for their daily Islamic activities. The applications they have on their phone also depends on what they need (Quran reading, prayer reminder, etc.). Digital ecosystem is a solution to the increased numbers of people utilizing their smart phone in their daily activities in this globalization era. Based on the problems stated, the development of an Islamic digital ecosystem application is needed to assists the Muslim in doing their daily activities, followed up by conducting testing and evaluation. The User Centered Design (UCD) is the go-to method for this research because it complies with the objective of the research. This method could ease the process to make sure that every process is done according to the objectives that have been set for the research. The method that will be used for the testing and evaluation of this research is the Single Ease Question (SEQ) and the System Usability Scale (SUS) method. The end result of this research has come up with the solution with the IHYA Digital Ecosystem mobile application, that obtained the result of SEQ testing of average 5 (Quite easy), 6 (Easy), and 7 (Very Easy) score and the SUS testing score of 84.2 which is equal to adjective ratings Excellent and acceptability ranges of Acceptable. And it is concluded that the IHYA Digital Ecosystem mobile application design can be easily used and accepted by the users.

**Keyword:** digital ecosystem, muslim, user centered design, system usability scale, single ease question