Cross Platform Smart Device Application To Read The Hijaiyyah For Autism Children

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Abstract

In current decade, usage of smartphone device is fast growing. At the same time, there are several different operating systems available for different smartphones. In this research project, efforts made to develop a smartphone application device that can run in various operating platforms. Analysis on the existing cross platform frameworks and selection over the best framework to be developed for the application is made. Using cross platform framework, this smartphone application can be installed in various different operating system. Meanwhile, various researches have shown that autistic children were good in using computers. As such, this finding is in line with the objective of the research which is to develop a cross platform smartphone application that will enable autistic children to test their level of skills while trainers able to keep track of the learning curve of these autistic children. The application shall enhance the interest of the autistic children to learn through touchscreen, for instance drag and drop puzzles, view hijaiyyah alphabets in a large, clear picture with audio, and many more. Since the application shall be specific to the autistic children in learning hijaiyyah alphabets, the children henceforth able to improve their knowledge in this area. This research will utilize the quantitative method to collect data from five autistic children using different platforms for their device, as well as the qualitative method to evaluate the application that is adaptable to various platforms. Noteworthy, the prototype will enhance the performance of the autistic children as a result of utilizing this application.

Keywords: cross platform, hijayyah, smartphone, mobile game, autism