IMPLEMENTING FIRST-IN FIRST-OUT(FIFO) QUEUE ALGORITHM FOR TASK SCHEDULING OF WISP: AN ASSISTIVE APPLICATION

An Undergraduate Thesis

Presented to the Faculty of the

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In Partial Fulfillment

of the Requirements for the Degree

Bachelor of Science in Information Technology

by

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Amiel John B. Macahilo

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JUNE 2022

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# Approval Sheet

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# Abstract

Excessive screen times and unmoderated use of smartphones among children become a huge concern for parents especially in this pandemic. This study aims to assist parents to help their children engage in physical activities with the help of Wisp: an assistive application. In this study, a total of 47 respondents were randomly selected. A group of 20 parents and 27 children with an age range of 7-12 years old, took part in testing the application. The overall computed mean of the children’s correspondence was 4.64 which is ruled as a strongly agreed rate or has positive feedback and the overall computed mean of the parent’s feedback was 4.39 which indicates that it is strongly agreed with the application. The assistive application achieved an overall “Good” rating based on the ISO 25010 standard garnering an overall mean of 3.85. Furthermore, the system was able to meet the needs and requirements of the end users and IT experts.

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