

DEVELOPMENT OF KIDDYLAUNCH APPLICATION FOR DRESSING PARTICIPATION OF CHILDREN DIAGNOSED WITH AUTISM SPECTRUM DISORDER

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ABSTRACT

The increasing use of mobile technologies has created new opportunities for interventions in recent years. For children with autism spectrum disorder, the latest developments in computer technology that are incorporated into mobile devices have opened a world of opportunities. Children with autism spectrum disorder (ASD) frequently struggle with these fundamental activities of daily living, such as getting dressed, taking care of their personal hygiene, going to bed, and performing other self-care tasks. However, recent research on mobile technology applications made for children with autism focuses on cognitive, social skills, communication skills and emotional recognition. This study investigated the development of the KiddyLaunch application for mobile devices to address dressing participation among children diagnosed with autism spectrum disorder. Specifically, this study would (1) determine the factors affecting children's participation in dressing task, (2) determine parent-caregiver approach in managing dressing participation for their children, (3) determine what mobile technology application can be developed to address dressing participation in children diagnosed with autism spectrum disorder, (4) Level of acceptability among parents with the use of the KiddyLaunch Application to address children's dressing participation, (5) Technical evaluation of the KiddyLaunch application based on the Systems and Software Quality Requirements and Evaluation (SQuaRE). Overall, the factors affecting children's participation in dressing tasks, social factors ($M = 2.64$) and physical factors ($M = 2.63$) have been frequently chosen by the participants that influence their child's performance in the home environment. Overall, these strategies are "often" ($M = 2.60$) used by the parents and caregivers in the study. According to the ISO 25010:2011 standards for systems and software evaluation, the developed KiddyLaunch application received a rating of *outstanding* ($M = 4.11$). This indicates the KiddyLaunch application, designed for dressing participation for children diagnosed with ASD, has met its standards and functions effectively for its users.

Keywords: Mobile Technology, Dressing Simulation, Participation, Activities Of Daily Living, Autism Spectrum Disorder