

DEVELOPING ANDROID-BASED SCHOOL RESILIENCE: A COMPARATIVE STUDY OF HIGH SCHOOLS IN INDONESIA, MALAYSIA, AND ARAB SAUDI

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ABSTRACT

Technological developments during the Covid-19 pandemic brought about many changes, causing various challenges in the world of education. Many educational institutions around the world are required to conduct online or virtual learning processes (Khandewal, Anju & Kumar Avanish, 2020). This becomes a pressure on the school community, including the school itself, teachers, and students, where this condition then has an influence on the learning process. Bahar, et al (2020) added that continuous pressure eventually resulted in stress in life. The facts found in the field show that schools have a role in achieving the goals of the education system. Education requires school and personal resilience strategies in learning to realize the goals of the education system. Kuiper (2012) refers to resilience as survival that directs individuals to redefine the quality of life and leads to a positive lifestyle. Resilience builds strength in building the basic constructions that help schools to rise from the difficulties of life. The effects of school and personal resilience bring changes to the school environment, and have an impact on school residents for the better. (Dwiningrum, 2021). Accelerated socialization and education related to the importance of building effective school resilience can be realized by utilizing IT developments. Android as part of IT development is an open-source operating system that will be used to create innovations in developing instruments that can be used by schools and students directly to describe school and personal resilience profiles of school residents. The purpose of the android application product is to motivate users to understand school resilience knowledge quickly, easy to operate without being limited by space and time, making it easier to understand school resilience better in designing strategic policies related to school resilience. The instrument will be used to measure school and personal resilience and the results of the research will be useful for decision making related to the development of school resilience. This research provides innovation that combines elements of technology and educational aspects in terms of school and personal resilience that utilizes agile software development. This study will provide an effective media to determine the level of school resilience and personal resilience (teachers and students) based on Android. The results can be used by schools in making interventions to strengthen school resilience. The aspects developed for school resilience include: increase bonding, set clear consistent bonds, teach life skills, provide caring and support, set and communicate high expectations, and provide opportunities for meaningful participation. Meanwhile, personal resilience includes seven aspects, namely aspects of emotional regulation, impulse control, empathy, optimism, causal analysis, self-efficacy, and reaching out.

Kata Kunci: *Android, Comparative Study, School Resilience*