

DEVELOPMENT OF A DIGITAL STORYBOOK ON SDG-15 TO FACILITATE READING BEHAVIOURAL ENGAGEMENT OF SIXTH GRADE STUDENTS AT SD LAB UNDIKSHA

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ABSTRACT

This study was conducted to address the need for reading materials that can facilitate sixth-grade students' reading behavioural engagement at SD Lab Undiksha Singaraja. This study aimed to develop an SDG-15 (Life on Land)-integrated digital storybook and evaluate the quality in facilitating students' reading behavioural engagement. This study employed Design and Development (D&D) research using the ADDE model, consisting of Analysis, Design, Development, and Evaluation stages. The research was conducted at SD Lab Undiksha Singaraja and involved sixth-grade students, one English teacher, and two experts in English Language Education. The data were collected through classroom observations, teacher interviews, expert judgment, and also teacher evaluation. The findings revealed that students and the teacher needed interactive, visually appealing reading materials appropriate to students' characteristics and learning needs. Based on the results of the needs analysis, a digital storybook titled *The Old Tree in Rainbow Forest* was developed by integrating SDG-15 theme of protecting and restoring forests into a meaningful storyline, supported by illustrations, background music, interactive features pop-up word translations. The expert judgement results showed that the developed digital storybook achieved an Excellent qualification with a score 105. Furthermore, the teacher evaluation also indicated that digital storybook achieved an Excellent rating with score of 81, in facilitating students' reading behavioural engagement. The teacher evaluation further indicated that the digital storybook supported students' active participation, attention, and interaction during reading activities at classroom. Therefore, the developed digital storybook is considered an appropriate supporting reading material to facilitate sixth-grade students' reading behavioural engagement while promoting environmental awareness.

Keywords: digital storybook, SDG-15, reading behavioural engagement, elementary students. Design and Developemnt

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ABSTRAK

Penelitian ini dilakukan untuk memenuhi kebutuhan akan bahan bacaan yang dapat memfasilitasi keterlibatan perilaku membaca (*reading behavioural engagement*) siswa kelas enam di SD Lab Undiksha Singaraja. Penelitian ini bertujuan untuk mengembangkan *digital storybook* yang terintegrasi dengan SDG-15 (*Life on Land*) serta mengevaluasi kualitasnya dalam memfasilitasi *reading behavioural engagement* siswa. Penelitian ini menggunakan metode *Design and Development* (D&D) dengan model ADDE yang terdiri atas tahap *Analysis*, *Design*, *Development*, dan *Evaluation*. Penelitian dilaksanakan di SD Lab Undiksha Singaraja dengan melibatkan siswa kelas enam, satu orang guru Bahasa Inggris, serta dua orang ahli di bidang Pendidikan Bahasa Inggris. Data dikumpulkan melalui observasi kelas, wawancara guru, *expert judgment*, dan evaluasi guru.

Hasil penelitian menunjukkan bahwa siswa dan guru membutuhkan bahan bacaan yang interaktif, menarik secara visual, serta sesuai dengan karakteristik dan kebutuhan belajar siswa. Berdasarkan hasil analisis kebutuhan, dikembangkan sebuah *digital storybook* berjudul *The Old Tree in Rainbow Forest* dengan mengintegrasikan tema SDG-15, yaitu melindungi dan memulihkan hutan, ke dalam alur cerita yang bermakna, yang didukung oleh ilustrasi, musik latar, fitur interaktif, serta terjemahan kosakata melalui *pop-up*. Hasil *expert judgment* menunjukkan bahwa *digital storybook* yang dikembangkan memperoleh kualifikasi Excellent dengan skor 105. Selain itu, hasil evaluasi guru menunjukkan bahwa *digital storybook* memperoleh kategori Excellent dengan skor 81 dalam memfasilitasi *reading behavioural engagement* siswa. Evaluasi guru juga menunjukkan bahwa *digital storybook* mendukung partisipasi aktif, perhatian, dan interaksi siswa selama kegiatan membaca di kelas. Oleh karena itu, *digital storybook* yang dikembangkan dinilai layak digunakan sebagai bahan bacaan pendukung untuk memfasilitasi *reading behavioural engagement* siswa kelas enam sekaligus meningkatkan kesadaran terhadap pelestarian lingkungan.

Kata Kunci: digital storybook, SDG-15, keterlibatan perilaku membaca, siswa sekolah dasar, Design and Development