

ABSTRAK**PENGEMBANGAN *FLIPBOOK* IPA MATERI EKOSISTEM UNTUK KELAS V SEKOLAH DASAR**

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Penelitian ini dilatarbelakangi oleh adanya kebutuhan terhadap bahan ajar berbasis elektronik untuk siswa supaya meningkatkan minat dan motivasi belajar siswa pada masa pandemi. Penelitian ini bertujuan: (1) untuk mendeskripsikan prosedur pengembangan bahan ajar berbasis elektronik *flipbook* IPA untuk siswa kelas V Sekolah Dasar, (2) untuk mendeskripsikan kualitas produk bahan ajar berbasis elektronik *flipbook* IPA untuk siswa kelas V Sekolah Dasar.

Jenis penelitian ini adalah penelitian dan pengembangan. Penelitian ini menggunakan 4 tahap pengembangan 4-D atau *Four-D* menurut Thiagarajan 1974 yaitu tahap *define* (pendefinisian), *design* (perancangan), *develop* (pengembangan), dan *disseminate* (penyebaran). Validasi produk dilakukan oleh ahli, guru kelas, dan guru mata pelajaran IPA untuk mengetahui kualitas produk. Uji coba produk dilakukan pada 28 siswa kelas V SDN Citepus 01 pada bulan November 2020. Instrumen yang digunakan adalah pedoman observasi, pedoman wawancara dan kuesioner. Observasi dan wawancara digunakan untuk mengetahui analisis kebutuhan guru akan bahan ajar berbasis elektronik, sedangkan kuesioner digunakan untuk validasi kualitas bahan ajar elektronik *flipbook* IPA oleh ahli, guru kelas, guru mata pelajaran IPA dan 28 siswa kelas V Sekolah Dasar.

Hasil penelitian menunjukkan: 1) spesifikasi produk yang dikembangkan dalam penelitian ini adalah produk dapat digunakan sebagai referensi sumber belajar siswa, produk berupa *flipbook* yang disertai gambar, audio, dan visual. Produk *flipbook* dilengkapi dengan berbagai macam-macam soal sesuai sub tema, dan *flipbook* memiliki bagian-bagian utama seperti halaman judul, kata pengantar, pendahuluan, KI/KD/tujuan pembelajaran, latihan soal, dan sumber bacaan. 2) prosedur pengembangan penelitian ini menggunakan teori 4-D (*Four-D*) dari Thiagarajan 1974 sebagai berikut: *define* (pendefinisian), *design* (perancangan), *develop* (pengembangan), dan *disseminate* (penyebaran). 3) Hasil validasi produk dari ahli menghasilkan skor 3,72 (sangat layak), hasil validasi dari guru kelas V mendapatkan skor 3,83 (sangat layak), guru mata pelajaran IPA mendapatkan skor 3,89 (sangat layak), dan uji coba produk pada 28 siswa kelas V SD adalah 3,71 (sangat layak). Rata-rata keseluruhan adalah 3,76 (sangat layak). Penilaian media pembelajaran berbasis elektronik *flipbook* ini ditinjau dari dua aspek, yaitu (1) desain *flipbook* dan (2) GAV (gambar, animasi dan video).

Kata Kunci: penelitian dan pengembangan, bahan ajar, *flipbook*, IPA

ABSTRACT**DEVELOPMENT OF FLIPBOOK OF NATURAL SCIENCE OF ECOSYSTEM MATERIALS FOR CLASS V BASIC SCHOOL***Bibiana Suciati**Sanata Dharma University**2021*

The researcher conducted the research based on the need for electronic-based teaching materials for students in order to increase interest and motivation to learn during a pandemic. This study aims: (1) to describe the procedure for developing teaching materials based on electronic Natural Science flipbooks for grade V elementary school students, (2) to describe the quality of teaching materials based on electronic Natural Science flipbooks for grade V elementary school students.

This is research and development research. This study employed 4 stages of development (4-D Four-D) according to Thiagarajan, namely define, design, develop, and disseminate. Product validation was carried out by experts, classroom teachers and science teachers to determine product quality. Product trials were conducted on 28 grade V students of SDN Citepus 01 in November 2020. The instruments employed were observation guidelines, interview guidelines and questionnaires. Observations and interviews were used to determine the analysis of teacher needs for electronic-based teaching materials, while the questionnaire was used to validate the quality of electronic teaching materials flipbook science by experts, class teachers, science subject teachers and 28 grade V elementary school students.

The results showed: 1) The product specifications developed in this study are that the product can be used as a reference for student learning resources, the product is a flipbook accompanied by pictures, audio, and visuals. The flipbook product is equipped with various kinds of questions according to the sub-theme, and the flipbook has main parts such as the title page, introduction, introduction, KI / KD / learning objectives, practice questions, and reading resources. 2) the development procedure of this research employed the 4-D (theoryFour-D) from Thiagarajan as follows: define , design , develop , and disseminate . 2) The results of the product validation from the expert was 3.72 (very feasible), the results of the validation from the class V teacher was 3.83 (very feasible), the science subject teacher was 3.89 (very feasible), and product testing on 28 students of grade V SD was 3.71 (very feasible). The overall average was 3.76 (very decent). The evaluation of flipbook-based media is viewed from two aspects, namely (1) flipbook design and (2) pictures, animation, and video.

Keywords: *research and development, teaching materials, flipbooks, science*