PENGEMBANGAN *WEBSITE* PENERJEMAH SISTEM ISYARAT BAHASA INDONESIA UNTUK TERMINOLOGI IPA KELAS IV SEKOLAH DASAR

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ABSTRAK

Penelitian ini bertujuan untuk merancang desain antarmuka, menelaah tingkat validitas isi, serta menganalisis respons pengguna terhadap website SIBIPA sebagai medium penerjemah terminologi Ilmu Pengetahuan Alam (IPA) bagi siswa kelas IV Sekolah Dasar. Langkah pengembangan ini lahir untuk mengurai benang kusut pemahaman siswa tunarungu terhadap konsep sains yang abstrak, sekaligus mengisi ruang kosong akan minimnya sumber belajar berbasis bahasa isyarat. Mengadopsi pendekatan *Research and Development* (R&D) yang berpedoman pada alur model ADDIE, penelitian ini melibatkan dedikasi dua ahli materi, dua ahli media, tiga praktisi pendidikan, serta sembilan siswa tunarungu. Data yang dihimpun melalui instrumen lembar validasi dan kuesioner kemudian disuling maknanya menggunakan teknik Gregory dan statistik deskriptif persentase. Hasil pengkajian menyingkapkan bahwa website SIBIPA memiliki tingkat validitas isi yang paripurna, tertuang dalam perolehan koefisien Gregory sebesar 1,00. Lebih jauh, keluwesan penggunaannya tercermin dari respons guru (95,8%) dan siswa (96,3%) yang mengukuhkannya pada kualifikasi sangat praktis. Sebagai muaranya, inovasi SIBIPA terbukti valid dan praktis untuk membuka gerbang aksesibilitas informasi visual yang adaptif, menumbuhkan literasi sains, dan memeluk keragaman siswa tunarungu dalam ekosistem pendidikan inklusif di sekolah dasar.

Kata Kunci: SIBIPA, Tunarungu, Terminologi IPA, Sekolah Dasar

DEVELOPMENT OF AN INDONESIAN SIGN LANGUAGE SYSTEM TRANSLATOR WEBSITE FOR FOURTH-GRADE ELEMENTARY SCHOOL SCIENCE TERMINOLOGY

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ABSTRACT

This research aims to design the user interface, examine the level of content validity, and analyze user responses to the SIBIPA website as a translation medium for Natural Sciences terminology for fourth-grade elementary students. This development initiative was born to unravel the complexities faced by deaf students in comprehending abstract scientific concepts, while simultaneously filling the void left by the scarcity of sign language-based learning resources. Adopting a Research and Development (R&D) approach guided by the ADDIE model framework, this study engaged the dedication of two content experts, two media experts, three educational practitioners, and nine deaf students. Data gathered through validation sheets and questionnaires were subsequently distilled using the Gregory technique and descriptive percentage statistics. The findings reveal that the SIBIPA website possesses an exceptional level of content validity, reflected in a perfect Gregory coefficient of 1.00. Furthermore, its practical fluidity is mirrored in the responses from teachers (95.8%) and students (96.3%), establishing it within the highly practical qualification. Ultimately, the SIBIPA innovation proves to be a valid and practical learning resource, opening the gates to adaptive visual information accessibility, fostering scientific literacy, and embracing the diversity of deaf students within an inclusive elementary education ecosystem.

Keywords: SIBIPA, Deaf, Science Terminology, Elementary School