

**PENGEMBANGAN APLIKASI GALACTOS BERBASIS *AUGMENTED*
REALITY PADA MATERI SISTEM TATA SURYA DI KELAS VI SD
NEGERI 4 KAYU PUTIH MELAKA**

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ABSTRAK

Pembelajaran IPAS di sekolah dasar masih menghadapi permasalahan dalam menyajikan materi sistem tata surya yang bersifat abstrak sehingga sulit dipahami secara konkret oleh siswa. Keterbatasan media visual yang interaktif menyebabkan keterlibatan siswa dalam pembelajaran belum optimal. Penelitian ini bertujuan untuk menganalisis, mengevaluasi, dan memvalidasi kelayakan serta kepraktisan media pembelajaran Galactos berbasis *Augmented Reality* (AR) pada materi sistem tata surya siswa kelas VI sekolah dasar. Penelitian ini merupakan penelitian pengembangan dengan desain *Research and Development* (R&D). Subjek penelitian terdiri atas dua ahli media dan dua ahli materi sebagai validator, serta subjek uji coba melibatkan satu guru dan delapan belas siswa. Pengumpulan data dilakukan melalui angket validasi ahli dan angket respon guru serta siswa menggunakan instrumen penilaian validitas dan kepraktisan media. Data dianalisis secara deskriptif kuantitatif menggunakan perhitungan nilai rata-rata. Hasil penelitian menunjukkan bahwa media Galactos berbasis AR memiliki tingkat validitas sangat tinggi dengan skor 4,8 dari ahli media dan 4,9 dari ahli materi, serta tingkat kepraktisan sangat baik dengan skor rata-rata 4,8 dari guru dan 4,87 dari siswa. Kesimpulannya, media pembelajaran Galactos berbasis AR dinyatakan layak dan praktis digunakan sebagai media pendukung pembelajaran IPAS di sekolah dasar. Implikasi penelitian ini menunjukkan bahwa pemanfaatan media berbasis AR mampu memperkaya pengalaman belajar siswa, meningkatkan keterlibatan dalam pembelajaran, serta menjadi alternatif inovatif bagi guru dalam mengembangkan pembelajaran berbasis teknologi.

Kata Kunci : *augmented reality*, media pembelajaran, sistem tata surya, validitas, kepraktisan

**DEVELOPMENT OF THE GALACTOS APPLICATION BASED ON
AUGMENTED REALITY ON SOLAR SYSTEM MATERIAL IN GRADE VI
SD NEGERI 4 KAYU PUTIH MELAKA**

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ABSTRACT

Learning Natural and Social Sciences (IPAS) in elementary schools still faces challenges in presenting abstract concepts of the solar system, making it difficult for students to understand the material concretely. The limited use of interactive visual media has resulted in suboptimal student engagement during the learning process. This study aims to analyze, and validate the feasibility and practicality of the Galactos learning media for teaching the solar system in IPAS learning for sixth-grade elementary school students. This study employed a Research and Development design. The research subjects consisted of two media experts and two subject-matter experts as validators, while the trial subjects involved one teacher and eighteen students. Data were collected using expert validation questionnaires and teacher and student response questionnaires, with instruments designed to assess the validity and practicality of the media. The data were analyzed using descriptive quantitative techniques through mean score calculations. The results indicate that the Galactos AR-based learning media achieved a very high validity level, with a score of 4.8 from media experts and 4.9 from subject-matter experts, as well as a very high level of practicality, with an average score of 4.8 from the teacher and 4.87 from the students. In conclusion, the Galactos AR-based learning media is feasible and practical for use as a supporting medium in IPAS learning at the elementary school. The implications of this study suggest that AR-based learning media can enhance students' learning experiences, increase engagement, and serve as an innovative technological alternative for teachers.

Keywords: augmented reality, learning media, IPAS, solar system, validity, practicality