

# **PENGEMBANGAN *E-BOOK* BERBASIS *WEB* SEBAGAI BAHAN AJAR UNTUK MATERI MITIGASI DAN ADAPTASI KEBENCANAAN SERTA EFEKTIVITASNYA DALAM PEMBELAJARAN GEOGRAFI DI SEKOLAH MENENGAH ATAS**

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## **ABSTRAK**

Penelitian ini bertujuan untuk mendeskripsikan karakteristik, menganalisis validitas, kepraktisan, dan efektivitas *E-Book* berbasis *web*. Menggunakan model penelitian dan pengembangan *ADDIE*, subjek penelitian adalah siswa kelas XI IPS SMA Negeri 3 Negara yang berjumlah 36 orang dan guru geografi. Data dikumpulkan melalui angket/kuisisioner dan *pre-test post-test* untuk mengevaluasi efektivitas *E-Book* berbasis *web*. Hasil penelitian menunjukkan bahwa *E-Book* berbasis *web* memiliki validitas tinggi dengan nilai rata-rata 98,33 untuk media dan 99,47 untuk kelayakan isi, menunjukkan kriteria “Sangat Valid dan Efisien” serta “Sangat Baik”. Kepraktisan *E-Book* mendapatkan nilai rata-rata 100 dengan kriteria “Sangat Praktis”. Efektivitas *E-Book* diukur menggunakan rumus *N-Gain* dengan hasil 0,59, yang dikategorikan “Cukup Efektif”. Dengan demikian, *E-Book* berbasis *web* yang dikembangkan memiliki karakteristik dapat diakses kapan saja, dilengkapi audio, video, dan gambar kontekstual, serta tidak memerlukan pengunduhan aplikasi.

Kata Kunci: Bahan Ajar *E-Book* Berbasis *Web*, Pembelajaran Geografi, dan Efektivitas *E-Book* Berbasis *Web*.

# ***DEVELOPMT OF WEB-BASED E-BOOKS AS TEACHING MATERIALS FOR DISASTER MITIGATION AND ADAPTATION MATERIAL AND THEIR EFFECTIVESS IN GEOGRAPHY LEARNING IN HIGH SCHOOLS***

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*This research aims to describe the characteristics, analyze the validity, practicality and effectiveness of web-based E-Books. Using the ADDIE research and developmt model, the research subjects were 36 studs of class XI IPS SMA Negeri 3 Negara and geography teachers. Data was collected through questionnaires and pre-test post-test to evaluate the effectiveness of web-based E-Books. The research results show that web-based E-Books have high validity with an average score of 98.33 for media and 99.47 for contt suitability, indicating the criteria "Very Valid and Efficit" and "Very Good". The practicality of the E-Book received an average score of 100 with the criteria "Very Good". The effectiveness of E-Books was measured using the N-Gain formula with a result of 0.59, which was categorized as "Moderately Effective". Thus, the web-based E-Book developed has the characteristics of being accessible at any time, equipped with audio, video and contextual images, and does not require downloading an application.*

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**Keywords:**

*Web-based e-book teaching materials, geography learning, and effectiveness of web-based e-book. .*

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