

## ABSTRACT

*Riza Azizi, 2023. Design And Creation E-Learning based Web at SMK Dhuafa Padang for the 2022/2023 Academic Year, Bachelor of Informatics Engineering Education Faculty Teaching and Education Putra Indonesia University.*

This research is motivated by the problem of limited learning media in SMK Dhuafa Padang. This happens because there is no media-based learning *web* attractive and effective. Therefore the author seeks to design and create learning media *E-learning* based *Web* at SMK Dhuafa Padang. This study uses research and development (R&D) methods. The research model used is the Borg & Gall development model, with the design and development steps as follows: Research and Information Gathering Stage (literature study, field study, user analysis), Planning (strengths, weaknesses, opportunities, threats), Product Development (waterfal: analysis, design, code), Product Testing and Revision (instrument validation, media validation), Final Product Revision (field trials, practicality, effectiveness), Dissemination. The research subjects were 75 students and 10 teachers. The results of the validity test by the experts as a whole the validator's test assessment of *E-learning* based *Web* in Padang Dhuafa Vocational School of 88.53%, so that the validity level can be interpreted as very valid to use. The results of the practicality test assessment as a whole practicality assessment of *E-learning* based *Web* in Padang Dhuafa Vocational School of 94.49%, so that the level of practicality can be interpreted as very practical to use. The results of the overall effectiveness test assessment of the effectiveness assessment *E-learning* based *Web* in Dhuafa Padang Vocational School of 94.85%, so that the level of effectiveness can be interpreted to be used very effectively.

**Keywords:** E-learning, website, PHP, MySQL

## ABSTRAK

Riza Azizi, 2023. **Perancangan Dan Pembuatan *E-Learning* Berbasis Web Di Smk Dhuafa Padang Tahun Ajaran 2022/2023**, Sarjana Pendidikan Teknik Informatika Fakultas Keguruan dan Ilmu Pendidikan Universitas Putra Indonesia.

Penelitian ini dilatar belakangi oleh permasalahan keterbatasan media belajar yang ada di SMK Dhuafa Padang. Hal ini terjadi karena belum adanya media pembelajaran berbasis *web* yang menarik dan efektif. Oleh karena itu penulis berupaya merancang dan membuat media pembelajaran *E-learning* Berbasis *Web* di SMK Dhuafa Padang. Penelitian ini menggunakan metode penelitian dan pengembangan (R&D). Model penelitian yang digunakan adalah model pengembangan Borg & Gall, dengan desain dan langkah-langkah pengembangannya adalah sebagai berikut Tahap Penelitian dan Pengumpulan Informasi (studi literatur, studi lapangan, analisis pengguna), Perencanaan (kekuatan, kelemahan, peluang, ancaman), Pengembangan Produk (waterfal: analisis, desain, code), Pengujian dan Revisi Produk (validasi instrumen, validasi media), Revisi Produk Akhir (uji coba lapangan, praktikalitas, efektivitas), Diseminasi. Subjek penelitian berjumlah 75 orang siswa dan 10 guru. Hasil uji validitas oleh para ahli secara keseluruhan penilaian uji validator terhadap *E-learning* Berbasis *Web* di SMK Dhuafa Padang sebesar 88,53%, sehingga tingkat validitas dapat diinterpretasikan sangat valid digunakan. Hasil penilaian uji praktikalitas secara keseluruhan penilaian praktikalitas terhadap *E-learning* Berbasis *Web* di SMK Dhuafa Padang sebesar 94,49%, sehingga tingkat praktikalitasnya dapat diinterpretasikan sangat praktis digunakan. Hasil penilaian uji efektivitas secara keseluruhan penilaian efektivitas *E-learning* Berbasis *Web* di SMK Dhuafa Padang sebesar 94,85%, sehingga tingkat efektivitasnya dapat diinterpretasikan sangat efektif digunakan.

**Kata kunci:** *E-learning*, *website*, PHP, MySQL