

Naila Hariri, 2026. Pengembang Media Pembelajaran Berbasis *Website* Berbantuan *Chatbot AI* Pada Materi Sistem Komputer Kelas X. Skripsi, program Studi Pendidikan Informatika, Fakultas Keguruan dan Ilmu Pendidikan, Universitas Trunodjoyo Madur. Pembimbing Evy Maya Stefany, S.Pd., M.Pd.

ABTRAK

Penelitian ini bertujuan untuk mengembangkan media pembelajaran berbasis *website* berbantuan *chatbot AI* pada materi sistem komputer di SMKN 1 Kwanyar, guna mempermudah siswa dalam proses pembelajaran. Penelitian ini menggunakan metode pengembangan *Research and Development* (R&D) dengan model 4D dengan 4 tahapan yaitu *define* (pendefinisian), *design* (perancangan), *develop* (pengembangan), dan *disseminate* (penyebaran). Pengujian materi, media, dan sistem dilakukan berdasarkan standar ISO 25010. Pada pengujian materi hasilnya 93,75% kategori “sangat baik”, pengujian media hasilnya 93% kategori “sangat baik”, pengujian sistem aspek *functional suitability* hasilnya 100% kategori “dapat di terima”, aspek *usability* di uji pada dua kelompok yaitu kelompok kecil dan besar dengan hasil 87,64% (kelompok kecil) dan 91,49% (kelompok besar), aspek *portability* hasilnya 100% kategori “dapat diterima”, dan aspek *performance efficiency* menggunakan GTmetrix diperoleh nilai *Grade A* dengan tingkat *performance* sebesar 96% dan *structure* sebesar 95%. Menunjukkan bahwa *website* telah memiliki performa yang sangat baik dan optimal.

Kata Kunci: *ChatBot AI*, Pengembangan, Media Pembelajaran, Sistem Komputer, *Website*.

Naila Hariri, 2026. Development of Website-Based Learning Media Assisted by AI Chatbot on Computer System Material for Class X. Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, Trunodjoyo University, Madur. Supervisor: Evy Maya Stefany, S.Pd., M.Pd.

ABSTRACT

This study aims to develop web based learning AI chatbot assisted computer system material media at SMKN 1 Kwanyar; in order to facilitate students in the learning process. This study uses the Research and Development (R&D) development method with a 4D model with 4 stages: define, design, develop, and disseminate. Testing of materials, media, and systems was carried out based on ISO 25010 standards. In the material testing the results were 93.75% in the "very good" category, the media testing results were 93% in the "very good" category, the system testing of the functional suitability aspect resulted in 100% in the "acceptable" category, the usability aspect was tested on two groups, namely small and large groups with results of 87.64% (small group) and 91.49% (large group), the portability aspect resulted in 100% in the "acceptable" category, and the performance efficiency aspect using GTmetrix obtained a Grade A score with a performance level of 96% and a structure of 95%, which indicates that the website has had very good and optimal performance.

Keywords: *ChatBot AI, Development, Learning Media, Computer System, Website.*