

Lumatus Sa'adah, 2025. Pengembangan Media Pembelajaran Berbasis Web Pada Materi Pemrograman Dasar di SMK Negeri 10 Surabaya. Skripsi, Program Studi Pendidikan Informatika, Fakultas Keguruan Dan Ilmu Pendidikan, Universitas Trunojoyo Madura. Pembimbing Laili Cahyani, S.Kom., M.Kom.

ABSTRAK

Penelitian ini bertujuan untuk mengembangkan media pembelajaran berbasis web di SMK Negeri 10 Surabaya, guna mempermudah siswa dalam proses pembelajaran. Penelitian ini menggunakan metode pengembangan yang dikenal sebagai *Research and Development* (R&D) dengan model ADDIE dengan 5 tahapan yaitu : *analysis, design, development, implementation, evaluation*. Pengujian materi dan sistem dilakukan berdasarkan standar ISO 25010 dan pada pengujian *functional suitability* hasilnya valid (100%). kemudian pada pengujian *Usability* diuji pada dua kelompok responden dengan hasil 93% (kelompok kecil) dan 94% (kelompok besar), keduanya dalam kategori "Sangat Baik". Pada pengujian *performance efficiency* Kinerja media pembelajaran berbasis web, ditunjukkan bahwa kecepatan rata-rata kurang dari 10 detik yang dikategorikan "Sangat Puas" dan menunjukkan pengalaman pengguna yang baik. Aspek *maintainability* diuji langsung di lapangan melalui indikator instrumentation, consistency, dan simplicity. Hasilnya menunjukkan bahwa sistem mudah dipelihara.

Kata kunci : *Laravel*, Pengembangan, media pembelajaran, SMK Negeri 10 Surabaya, Website.

Lumatus Sa'adah, 2025. Development of Web-Based Learning Media on Basic Programming Material at SMK Negeri 10 Surabaya. Thesis, Informatics Education Study Program, Faculty of Teacher Training and Education, Trunojoyo University, Madura. Supervisor: Laili Cahyani, S.Kom., M.Kom.

ABSTRACT

This study aims to develop web-based learning media at SMK Negeri 10 Surabaya, in order to facilitate students in carrying out the learning process. This study uses a development method known as Research and Development (R&D) with the ADDIE model with 5 stages, namely: analysis, design, development, implementation, evaluation. Material and system testing is carried out based on ISO 25010 standards and the functional suitability test results are valid (100%). Then the Usability test was tested on two groups of respondents with the results of 93% (small group) and 94% (large group), both in the "Very Good" category. In the performance efficiency test, the performance of web-based learning media shows an average speed of less than 10 seconds, categorized as "Very Satisfied", indicating a good user experience. The maintainability aspect was tested directly in the field through instrumentation, consistency, and simplicity indicators, which indicate that the system is easy to maintain.

Keywords: *Laravel, Development, instructional Media, SMK Negeri 10 Surabaya, Website.*