

ABSTRAK

Luthfi Abdul Rahman (5215144165) “Pengembangan Media Pembelajaran Berbasis Android Mata Pelajaran Dasar Listrik dan Elektronika Pada Siswa Kelas X Jurusan Teknik Instalasi Tenaga Listrik di SMKN 1 Jakarta”. Skripsi, Jakarta, Program Studi Pendidikan Elektronika, Fakultas Teknik, Universitas Negeri Jakarta. 2019. Dosen Pembimbing Dr.Moch.Sukardjo, M.Pd dan Diat Nurhidayat, S.Pd, MT.I.

Penelitian ini bertujuan untuk: (1) mengembangkan aplikasi edukatif berbasis android “Eldas-app” sebagai media pembelajaran Dasar Listrik dan Elektronika, (2) mengetahui penilaian dari tim ahli materi, media, dan guru pelajaran Dasar Listrik dan Elektronika mengenai kelayakan aplikasi berbasis android sebagai media pembelajaran (3) mengetahui penilaian siswa kelas X TITL 1 dan 2 SMK 1 Jakarta mengenai media pembelajaran Dasar Listrik dan Elektronika berbasis android.

Metode pengembangan yang digunakan dalam pengembangan media pembelajaran berbasis Android “*Eldas-App*” sebagai mata pelajaran Dasar Listrik dan Elektronika adalah ADDIE. Subjek penelitian yang terlibat adalah ahli media, ahli materi, dan praktisi pembelajaran DLE, dan siswa kelas X TITL SMK Negeri 1 Jakarta, sedangkan objek yang diteliti adalah kelayakan media pembelajaran berbasis Android “*Eldas-App*” sebagai mata pelajaran Dasar Listrik dan Elektronika yang meliputi aspek rekayasa perangkat lunak, aspek komunikasi visual, aspek materi, aspek soal, aspek kebahasaan, aspek keterlaksanaan, dan aspek desain pembelajaran.

Berdasarkan hasil penelitian dan pembahasan menunjukkan bahwa 1) Pengembangan aplikasi edukatif berbasis android “*Eldas-App*” menggunakan model pengembangan ADDIE yaitu analisis (*analysis*), desain (*design*), pengembangan (*development*), implementasi (*implementation*), dan evaluasi (*evaluation*). 2) Penilaian siswa kelas X TITL 1 dan X TITL 2 SMK Negeri 1 Jakarta yang terdiri dari 60 siswa memperoleh nilai rata-rata seluruh aspek sebesar 3,34 yang termasuk dalam kategori Layak. 3) Berdasarkan seluruh penilaian dari ahli media sebesar 3,3, penilaian dari ahli materi sebesar 3,5, penilaian dari praktisi pembelajaran sebesar 3,45, dan penilaian siswa kelas X TITL SMK Negeri 1 Jakarta sebesar 3,34, maka keseluruhan 3,38 aplikasi edukatif berbasis Android “*Eldas-App*” Layak dipergunakan sebagai media pembelajaran Dasar Listrik dan Elektronika di SMKN 1 Jakarta.

Kata kunci: “Eldas-App”, Android, Media, ADDIE

ABSTRACT

Luthfi Abdul Rahman (5215144165) "Development of Android-Based Learning Media for Basic Electrical and Electronic Subjects for Class X Students of Electrical Installation Engineering Department at Jakarta 1 Vocational High School". Essay. Jakarta: Electronic Education Study Program, Faculty of Engineering, Jakarta State University. 2019. Supervisor, Dr. Moch.Sukardjo, M.Pd and Diat Nurhidayat, S.Pd, MT.I.

This research aims to: (1) develop an Android-based educational application "Eldas-app" as a Basic Electric and Electronics learning media, (2) find out the assessment of a team of material experts, media, and elementary teachers of Electricity and Electronics regarding the feasibility of an Android-based application as learning media (3) knowing the assessment of class X TITL 1 and 2 SMK 1 Jakarta students regarding android – based basic learning media for Electricity and Electronics.

The development method used in the development of learning media based on the Android "Eldas-App" as the subject of learning for basic Electricity and Electronics is ADDIE. The research subjects involved were media experts, material experts, and DLE learning practitioners, and class X students of TITL at SMK Negeri 1 Jakarta, while the object under study was the feasibility of Android-based learning media "Eldas-App" as the Basic Electric and Electronics learning eye covering aspects of software engineering, aspects of visual communication, material aspects, question aspects, linguistic aspects, implementation aspects, and aspects of learning design.

Based on the results of research and discussion show that 1) Development of android-based educational applications "Eldas-App" uses the ADDIE development model, namely analysis (analysis), (design), development, implementation and evaluation. 2) Assessment of class X TITL 1 and X TITL 2 students at SMK Negeri 1 Jakarta which consists of 60 students obtaining an average value of all aspects of 3.34 which is included in the Eligible category. 3) Based on all assessments from media experts of 3.3, the assessment of material experts is 3.5, the assessment of the learning practitioner is 3.45, and the assessment of the class X student TITL of SMK Negeri 1 Jakarta is 3.34, then the overall is 3,38 educational applications based on Android "Eldas-App" are worthy of being used as basic learning media for electricity and electronics at SMK 1 Jakarta.

Keywords: "Eldas-App", Android, Media, ADDIE