

## ABSTRAK

### APLIKASI PANDUAN MERAKIT KOMPUTER BERBASIS ANDROID (STUDI KASUS : SLARA KOMPUTER BANDAR LAMPUNG)

ZUMHARI  
13312498

Penelitian ini bertujuan untuk menghasilkan aplikasi panduan merakit komputer berbasis *android* pada Slara Komputer Bandar Lampung, mengetahui hasil pengujian kualitas aplikasi panduan merakit komputer berbasis *android* pada slara komputer Bandar Lampung berdasarkan standar *ISO9126* yang meliputi aspek *functionality*, *usability*, *portability* dan *efficiency*.

Dalam tahap pengembangan aplikasi peneliti menggunakan pemodelan *luther* ( *multimedia development life cycle*), terdapat 6 tahapan yaitu *concept*, *design*, *material*, *collecting*, *assembly* dan *testing*. Sumber data/subjek penelitian yaitu pimpinan, karyawan dan konsumen slara komputer Bandar Lampung untuk pengujian *usability*, 2 orang ahli untuk pengujian *functionality*, 3 unit *smartphone* dengan sistem operasi *android* versi *Marsmello*, *Nougat* dan *Oreo*. untuk pengujian *portability* serta penggunaan *tools testdroid* untuk pengujian *efficiency*. Teknik dalam pengumpulan data berupa wawancara, observasi, dan kuesioner.

Hasil penelitian diketahui bahwa: pembuatan aplikasi panduan merakit komputer berbasis *android* menggunakan *software android studio* dan dilakukan beberapa tahap yaitu *concept*, *design*, *material*, *collecting*, *assembly* dan *testing*. *testing software* berdasarkan *ISO9126*. Aplikasi panduan merakit komputer berbasis *android* yang dibangun memiliki kualitas aspek *functionality* 100% valid, aspek *usability* menghasilkan nilai 88,2%, hasil pengujian aspek *portability* 100% valid dan aspek *efficiency* dengan *testdroid* menunjukkan penggunaan CPU rata-rata 5%.

Kata Kunci : Merakit Komputer, *Android*, *ISO 9126*

## **ABSTRAK**

### **APPLICATION GUIDE ASSEMBLE COMPUTER BASED ANDROID (CASE STUDY : SLARA KOMPUTER BANDAR LAMPUNG)**

**ZUMHARI  
13312498**

This research aims to produce application guidelines android-based computer assemble a computer in Slara Computer Bandar Lampung, knowing the results of testing the quality of the application guide android-based computer assemble a computer in slara computer Bandar Lampung based on standard ISO9126 which covers aspects of functionality, usability, portability and efficiency.

In the stage of application development researchers use modeling luther (multimedia development life cycle), there are 6 stages namely, concept, design, material, collecting, assembly and testing. Data source/subject of research is the leader, employee and consumer slara computer bandar lampung to test usability, 2 persons expert for testing fungsionalitas, 3 units of smartphones with android operating system version Marsmello, Nougat and Oreo. for portability testing as well as the use of testdroid tools for testing efficiency. Data collection techniques in the form of interviews, observation, and questionnaires.

It is known that research results: the making of the application guide to assemble a computer using android based android software studio and done some stage of concept, design, material, collecting, assembly and testing. testing software based on ISO9126. Application guide assembles the android-based computer constructed quality 100% functionality valid aspect, the aspect of usability generate value 88.2%, the test results 100% portability aspect valid and aspects of efficiency with testdroid shows CPU usage averaged 5%.

**Keywords:** Assemble computers, Android, ISO 9126