

ABSTRAK

Penelitian ini bertujuan untuk mengetahui karakteristik Aplikasi yang diperlukan dalam pelaksanaan supervisi akademik, mengembangkan model instrumen supervisi akademik melalui aplikasi berbasis *Android* dan untuk mengetahui tingkat *feasibilitas* produk model Instrumen Supervisi Akademik melalui aplikasi berbasis *Android* dalam pelaksanaan supervisi di sekolah Muhammadiyah di Kabupaten Gunungkidul berdasarkan uji coba yang dilaksanakan.

Jenis penelitian ini adalah penelitian dan pengembangan (*Research and Development*) dengan teori yang dikembangkan oleh Borg Gall menggunakan sepuluh langkah penelitian. Penelitian ini menggunakan pendekatan kualitatif, dengan metode deduktif untuk analisis data. Subjek penelitian ini adalah pengawas, kepala sekolah dan guru senior di sekolah Muhammadiyah di Kabupaten Gunungkidul. Teknik pengumpulan data menggunakan metode wawancara, dokumentasi, dan observasi dengan teknik pemeriksaan keabsahan data menggunakan perpanjangan keikutsertaan, ketekunan pengamatan dan *triangulasi*.

Kesimpulan dari penelitian ini adalah, *Pertama* karakteristik program aplikasi supervisi akademik berbasis android yang dibutuhkan adalah *userfriendly*, dapat membantu pelaksanaan supervisi, kecepatan dan keakuratan dalam pemrosesan data serta hasil dan pelaporan supervisi dapat langsung diakses dari manapun, kapanpun dengan *smartphone*. Pengembangan aplikasi supervisi akademik berbasis android dalam bentuk *webservice* memiliki kemampuan memproses data dan menghasilkan informasi yang cepat. *Kedua* program aplikasi supervisi akademik berbasis android yang dihasilkan memiliki kriteria dapat digunakan oleh supervisor dari sekolah manapun yang akan melakukan supervisi; dapat dijalankan di *smartphone Android*; data dapat langsung *ter-update* ketika supervisor melakukan supervisi, dan dapat langsung diakses dari manapun kapanpun karena berbasis *webservice* dengan satu *database*; aplikasi terbagi menjadi dua menu utama yaitu menu supervisor dan menu guru dengan fasilitas yang berbeda; *output* dari program aplikasi ini selain berbentuk data yang detail juga berbentuk *file pdf* yang bisa diunduh dan kemudian dicetak untuk pelaporan; dan aplikasi ini bersifat *online* yang hanya bisa digunakan dengan koneksi internet. *Ketiga* Hasil uji *feasibilitas* menunjukkan bahwa Program Aplikasi Supervisi Akademik berbasis Android dapat berjalan lancar, dalam aspek kemudahan penggunaan, kelengkapan data, kesesuaian dengan kebutuhan, keakuratan data, dan ketepatan perhitungan.

Kata Kunci: *Pengembangan Instrumen, Supervisi, Aplikasi berbasis Android*

ABSTRACT

This study aims to find out the characteristics of the application needed in academic supervision, develop an Academic Supervision Instrument model through Android-based applications, and find out about the product feasibility level of the Android-based Academic Supervision Instrument model in the implementation of supervision in the Muhammadiyah schools in Gunungkidul Regency based on the trials which was already carried out.

This type of research is a research and development aimed at developing the Academic supervision application program. This research uses a qualitative approach, with inductive method for data analysis. The development of this application uses ten steps of development. The subject of this study was Muhammadiyah schools in Gunungkidul Regency, with the technique of collecting data using interview methods, documentation, and observation.

The conclusions of this research is, *first*, the criteria of academic supervision application program required are user-friendly, can help the implementation of the supervision and can be accessed anywhere, and anytime with the smartphone. The development of Android-based academic supervision applications in the form of web service has the ability to process data and produce fast information. The criteria for the application are: (1) Instrument data can be accessed anywhere and anytime with an internet connection; (2) Speed and accuracy of data processing; (3) Completeness of report that can be directly known by the recapitulation, including records and follow-up; (4) Teachers and supervisors can see the instruments and results quickly; (5) Report is stored in the database, it can be downloaded and can be printed anytime. *Second*, the program development is carried out through 10 steps: (1) Seeing the potential of the problems, by conducting preliminary research related to the needs in the field, (2) Collecting data from various literature as the sources for the development of academic supervision application program, (3) Product design as needed in the field, (4) Design validation carried out by supervising practitioners is valid with revision, (5) Revision of the design in the form of adding menus to create new instruments, (6) Trial of products by media experts, material experts, and linguists according to procedure of usage, (7) Product revision, in the form of adding school information, adding instruments, and menu dropping subjects, (8) Usage testing conducted with users, (9) Product revision, by compiling tutorial books and adding supporting menus, and (10) Mass production. *Third*, test results show that this application program is capable of carrying out its functions in accordance with the design, which is in the processing of supervision data. The result of feasibility test shows that Android-based Academic Supervision Application Program can run smoothly, in terms of ease of use, data completeness, and compatibility with needs, data accuracy, and accuracy of calculations.

Keywords: *Development of Instrument, Supervision, Android-based Application*