

ABSTRAK

Digitalisasi pencatatan produksi dan distribusi bibit tanaman kehutanan berbasis website di Dinas Lingkungan Hidup dan Kehutanan Daerah Istimewa Yogyakarta merupakan penelitian untuk memenuhi perkembangan teknologi di era revolusi industri 4.0 saat ini membuat seluruh kegiatan industri, pemerintahan, pendidikan dan masyarakat umum memanfaatkan internet (*internet of thing*). Pencatatan produksi dan distibusi bibit tanaman kehutanan yang saat ini bersifat manual dengan catatan pada papan tulis, buku dan semi digital berupa data excel pada komputer perlu ditingkatkan mengikuti perkembangan teknologi digital berbasis website yang dapat dilihat lebih menarik sebagai media publikasi dan banyak dilihat orang pengguna internet.

Kegiatan pengelolaan pencatatan data produksi dan distribusi bibit dapat ditampilkan dalam bentuk website menggunakan metode penelitian *Waterfall*. Tahapan meliputi perancangan, analisis, desain, pengkodean, pengujian dan pemeliharaan program komputer. Penyusunan rancangan sistem pencacatan komputer dilakukan untuk menampung data-daya yang akan dimasukkan dalam sistem, analisis kebutuhan sistem meliputi perangkat keras komputer (*hardware*), Perangkat lunak komputer (*software*), tabel-tabel data yang tersusun dalam *Hypertext Preprocessor* (PHP) yang dapat dipanggil untuk ditampilkan. Perancangan desain menampilkan interface antara user dan komputer sebagai interaksi pemanfaatan informasi. Dilanjutkan pembuatan sistem menggunakan bahasa program komputer berupa pengkodean sebagai kelanjutan penelitian untuk menghasilkan sebuah informasi web. Pengujian sistem dengan mencoba input data dan hasil output sudah sesuai perencanaan. Dari keseluruhan tahapan-tahapan tersebut telah menghasilkan sistem informasi digitalisasi produksi dan distribusi bibit tanaman kehutanan berbasis website di Daerah Istimewa Yogyakarta.

Digitalisasi pencatatan produksi dan distribusi bibit tanaman kehutanan di Daerah Istimewa Yogyakarta merupakan wujud pemanfaatan teknologi informasi internet guna menyimpan data base yang lebih banyak, mempercepat pelaporan dan pengawasan sebaran bibit tanaman kehutanan di Daerah Istimewa Yogyakarta.

Kata Kunci; Digitalisasi produksi dan distribusi bibit tanaman kehutanan

ABSTRACT

Digitizing the recording of production and distribution of forestry plant seeds based on the website at the Department of Environment and Forestry of the Special Region of Yogyakarta is a research to meet technological developments in the era of the industrial revolution 4.0 currently making all industrial, government, educational and public activities use the internet (internet of thing). . Recording of production and distribution of forestry plant seeds which is currently manual with notes on blackboards, books and semi-digital in the form of excel data on computers needs to be improved following the development of website-based digital technology which can be seen as more attractive as a publication media and widely viewed by internet users.

Management activities of recording production and distribution of seedling data can be displayed in the form of a website using the Waterfall research method. The stages include designing, analyzing, designing, coding, testing and maintaining computer programs. Compilation of the design of a computer disability system is carried out to accommodate data-power to be entered in the system, analysis of system requirements includes computer hardware (hardware), computer software (software), data tables arranged in Hypertext Preprocessor (PHP) which can be called to display. The design design displays the interface between the user and the computer as the interaction of the use of information. Continued making the system using a computer programming language in the form of coding as a continuation of research to produce a web of information. Testing the system by trying the input data and the output results are in accordance with the plan. All of these stages have resulted in an information system for digitizing the production and distribution of website-based forest plant seeds in the Special Region of Yogyakarta.

Digitization of recording production and distribution of forestry plant seeds in the Special Region of Yogyakarta is a form of utilizing internet information technology to store more databases, speed up reporting and monitoring of the distribution of forestry plant seeds in the Special Region of Yogyakarta.

Keywords; Digitizing production and distribution of forestry plant seeds