

ABSTRAK

PT Bringin Karya Sejahtera Cabang Palembang masih mengalami kendala dalam pengelolaan Rencana Anggaran Biaya (RAB) proyek karena proses pengolahan data dilakukan menggunakan *Microsoft Excel* yang belum terintegrasi, sehingga berpotensi menimbulkan kesalahan perhitungan, duplikasi data, serta kesulitan dalam pembaruan dan pencarian data. Penelitian ini bertujuan untuk membangun Aplikasi Pengelolaan Rencana Anggaran Biaya (RAB) Berbasis *Website* yang dapat membantu meningkatkan efektivitas dan efisiensi pengelolaan anggaran proyek. Metode pengembangan sistem yang digunakan adalah *Rapid Application Development* (RAD) yang terdiri dari tahapan *Requirements Planning*, *Design System*, *Development*, dan *Implementation*. Pengumpulan data dilakukan melalui observasi, wawancara, studi pustaka, dan dokumentasi. Aplikasi dikembangkan menggunakan *framework Laravel* dan *database MySQL*. Hasil penelitian menunjukkan bahwa aplikasi yang dibangun mampu mengintegrasikan pengelolaan data HDB, HDU Peralatan, AHSP, proyek, dan RAB dalam satu sistem terpusat. Selain itu, aplikasi dapat melakukan perhitungan RAB secara otomatis, menyediakan fitur unggah dokumen proyek, proses persetujuan digital, melihat status persetujuan secara *real-time*, serta menghasilkan laporan RAB secara otomatis. Berdasarkan hasil pengujian *Black Box Testing*, seluruh fitur aplikasi berjalan sesuai dengan kebutuhan pengguna sehingga mampu meningkatkan kecepatan, ketepatan, serta efektivitas dalam pengelolaan Rencana Anggaran Biaya pada proyek di PT Bringin Karya Sejahtera Cabang Palembang.

Kata Kunci: Rencana Anggaran Biaya, *Website*, *Rapid Application Development*, *Laravel*, *MySQL*.

ABSTRACT

PT Bringin Karya Sejahtera Palembang Branch still experiences obstacles in managing the project Budget Plan (RAB) because the data processing is carried out using Microsoft Excel which is not yet integrated, thus potentially causing calculation errors, data duplication, and difficulties in updating and searching data. This study aims to build a Website-Based Budget Plan (RAB) Management Application that can help improve the effectiveness and efficiency of project budget management. The system development method used is Rapid Application Development (RAD) which consists of the stages of Requirements Planning, Design System, Development, and Implementation. Data collection was carried out through observation, interviews, literature studies, and documentation. The application was developed using the Laravel framework and MySQL database. The results of the study show that the application built is able to integrate the management of HDB, HDU Equipment, AHSP, projects, and RAB data in one centralized system. In addition, the application can automatically calculate RAB, provide project document upload features, digital approval processes, real-time monitoring of submission status, and generate RAB reports automatically. Based on the results of Black Box Testing, all application features performed according to user requirements, improving the speed, accuracy, and effectiveness of managing the Cost Budget Plan for projects at PT Bringin Karya Sejahtera, Palembang Branch.

Keywords: Cost Budget Plan, Website, Rapid Application Development, Laravel, MySQL.