ABSTRACT

Seven Laundry is a service company that offers a goods washing service for the customers. There are so many services that could be choosen at Seven Laundry. The amount of customers is different on every period. Seven Laundry does not budget expenditure in carrying out their business, so that it does not have a benchmark in taking an action related to the process within the company. To solve that problem, an application for budgeting services revenue and expense built with exponential smoothing approach. Exponential smoothing approach is a forecasting procedure with the average past value of a set of time. The application was made with prototyping method, the designing process was using Unified Modelling Language (UML) system, and the database scheme design was using Entity Relationship Diagram (ERD), and PHP, Framework CodeIgniter, as well as MySQL database was used. Functionality works as expected after testing by comparing manual calculations with calculations on the application and tested with black box testing. Once implemented, the application is able to estimate revenue using exponential smoothing, budgeting expenditure based on estimates, recording the realization of expenses, displaying general journals and ledgers.

Keywords: Estimation, Exponential Smoothing, PHP, CodeIgniter