

ABSTRACT

Ruru Snack is a home industry that sells products of cassava chips. Sales system Ruru Snack, customers must order the product in advance. The process of recording orders in Ruru Snack has not been computerized so there is a risk of errors in recording. And in the process of procuring raw materials, Ruru Snack does not use production data in the previous period, so raw material inventories often accumulate in the warehouse. To overcome these problems, was built a web application that can do calculations for raw material inventory. This web application was built using object-oriented methods and the development of the Evolutionary Prototype model, the design process using the Unified Modeling Language (UML) system modeling, and for designing database schemes using Entity Relationship Diagrams (ERD), and using the PHP programming language and Framework Codeigniter and databases MySQL. After testing by comparing between manual calculations with calculations in the application and tested with black box testing the functionality runs 100%. After being implemented, this application is able to record orders from customers, record purchases of raw materials, manage production, perform estimation calculations using exponential smoothing methods, and display reports in the form of general journals and ledgers.

Keywords: Raw Material Inventory, Exponential Smoothing, Codeigniter Framework, Web Based Application.