

## ABSTRACT

---

*Bangnana Chips is a manufacturing company engaged in food. One of the products is banana chips. Banana chips themselves have five kinds of flavors, namely barbecue, chocolate, cheese, spicy and balado. Purchasing raw materials to suppliers has a requirement to get a discount. As on certain dates there will be a discount and on certain dates there will be no discounts. Indirectly, you should be able to set a purchase schedule to get a discount to reduce the cost of raw material inventory. The Lot for Lot method is a method used to consider the determination of the amount of production when demand is limited and time changes. Besides using Lot for Lot, it also considers warehouse capacity and discount units for every purchase of raw materials to reduce raw material costs. The application is built using the PHP programming language and CodeIgniter framework. The development process uses Software Development Life Cycle (SDLC). Testing for all functionality uses the black-box testing method. Based on the testing of black-box testing, it can be concluded that the application is able to make purchases by considering discount units and warehouse capacity, adding and reducing inventory of raw materials in the warehouse, displaying purchase reports and accounting records in the form of journals and ledgers.*

*Keywords: Inventory, Lot for Lot, PHP, CodeIgniter, SDLC*