

**IMPLEMENTATION OF APRORI ALGORITHM AND SIMPLE ADDITIVE
WEIGHTING IN SUPPORTING PRODUCT INVENTORY CONTROL
DECISIONS FOR PRODUCT DISTRIBUTION EFFECTIVENESS
(Case Study: CV. Politikuku Friends of Children)**

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ABSTRACT

In this era, technological developments are increasingly rapid. Because of this, many business people experience bankruptcy because they are unable to compete with their competitors due to many reasons, one of which is the lack of use of technology to help manage business operational activities. CV Politikuku Sahabat Anak is a company that provides souvenirs, souvenirs and merchandise specifically for tourist attractions in Yogyakarta. Because the outlet is located in a tourist spot, of course the number of visitors cannot be equalized between weekdays and holidays. Of course, this also affects sales at the CV Politikuku Sahabat Anak outlet. Currently, product stock additions are determined only based on current inventory, so this often causes outlets to run out of stock when needed, resulting in decreased customer satisfaction. Apart from that, product storage costs will increase if the product is not sold quickly and there will also be a decrease in product quality because it is stored for too long. Therefore, a decision support system is needed to provide recommendations for the types of products that need to be added to stock by looking at sales levels and also the current amount of inventory. The system testing results obtained a specificity value of 66.67%.

Keywords: *Apriori algorithm, SAW method, product inventory control*

