ABSTRACT

APPLICATION OF BOOK POSITIONING RULES IN BOOKCASE USING FP-GROWTH ALGORITHM
(Case Study : PT. Kanisius Pemasaran Palembang)

The determination rule of book positions in the shelves is not easy. The often trouble happen was many of warehouse employee just let them based on their remain without certain rule. It made any employee in another part felt difficult, when they want taked and restored that book lonely. Then in this study built a system or determination of he book position, which implements FP-Growth for resolved. This research used of Extreme Programming (XP) *methodology design system is done with Unified Modeling Language* (UML) *and system implemented in* PHP *programming language. The data used in this research was sales transaction data of* PT. Kanisius Pemasaran Palembang (KPP). *The resulting system works with searching the frequent itemset from sales transaction data then selected based on minimum support value and minimum confidence value got association rule needed. Based on the result from whitebox and blackbox testing, the resulting system can work well and produce book positioning rules.*

Keywords : book positioning rules, FP-Growth, KPP, *association rule.*