

# **CHAPTER I**

## **INTRODUCTION**

### **1.1 Backgrounds**

Online shop is booming in social media like facebook, twitter, etc. Via online shop, buying and selling can be done without knowing the seller and the buyer. Recently, online shop not only sell the items such as clothes (fashion), but all items can be sold in the online shop.

Because of many items, sometimes online shop seller feels confused to determine the items to sell in online shop. So, through this application can facilitate online shop seller to predict what items can be sold in online shop. Prediction views of the items that have been purchased by customer before. After that, online shop seller do not need to sell a lot of items, just the items that ordered in demand and can be sold well. Because these conditions, this application is made for online shop seller to determine the items.

### **1.2 Scope**

This project is using PHP Object language programming, array list as a data structure, and Apriori Algorithm.

The things that can be done in this project is:

1. Predict the pre order items
2. Input the needed minimal support
3. Display all data in the table

### 1.3 Objective

This application is made to predict the pre-order items. First, this application which is entered by data changed become array list. The only data called "orderan" will be execute , and then made array list for data "orderan". Next, starts go into apriori algorithm, searches frequency of one itemset, and then input minimal support.

After that, joins the itemset until find the relationship /correlation structure from itemset so that he predictions of items that can be sold in the next pre order.