CHAPTER IV

SOFTWARE DESIGN

4.1 Analysis

4.1.1 Use Case Diagram

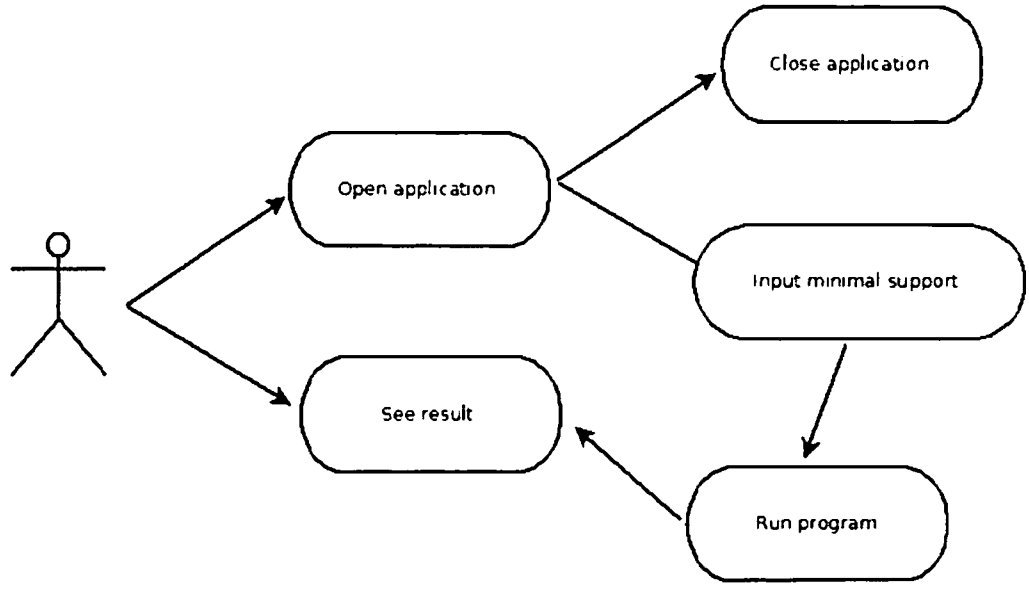

Figure 4.1 Use Case Diagram

When the user opens this application, the user will see the data has been input. After taht, the user can determine by ownself the needed minimal support. After the user inputs the minimal support, the program start to eliminate the disallow item from minimal support. Furthermore, the program dose joined one and then joined two and finally has a result.

4.2 Design

4.2.1 Flowchart

First step, the data items used arraylist of items and make arraylist only for data "order" and calculate the frequency of each items. Then, it will specify to minimal support and that will be compared with of each item

frequency, if it is bigger than from minimal support then joining with L1 |X| L1 and compare the result of joining with minimal support. If it is allow, joined with L1 |X| L2 and count the frequency which is fulfill the minimal support, and that is the result.

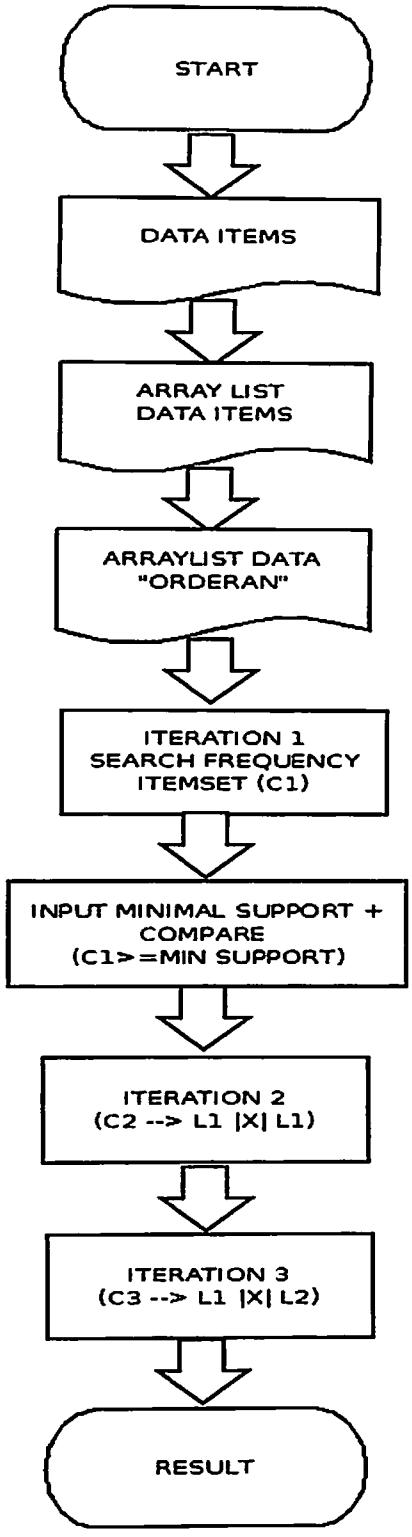

Figure 4.2.1 Flowchart