

## **CHAPTER IV**

### **Analysis and Design**

#### **4.1 Analysis**

##### **4.1.1 Permission to read contact**

Permission to read contact is used to read all the data in memory. Useful to display the contents of the phone book. However, these measures are limited to only showing name, birthday, phone number as specified by the the writer.

##### **4.1.2 Compare contac's birthday with today**

This step to get the data the authors want. The way that author is used to declare the date today. Then get contact birthday by using substring char start and char end.

##### **4.1.3 Action send message**

This is done if the application is found on the contacts birthday on this day. The first move made was checking the notification appears. Birthday reminder application if in showing the contacts birthday, then if we touch the contacts it will be fanning out action to send the message. Applications that we choose is SMS. After selecting SMS application then automatically retrieves the destination number and displays the messages that will be sent automatically.

## 4.2 Design

### 4.2.1. Use Case Diagram

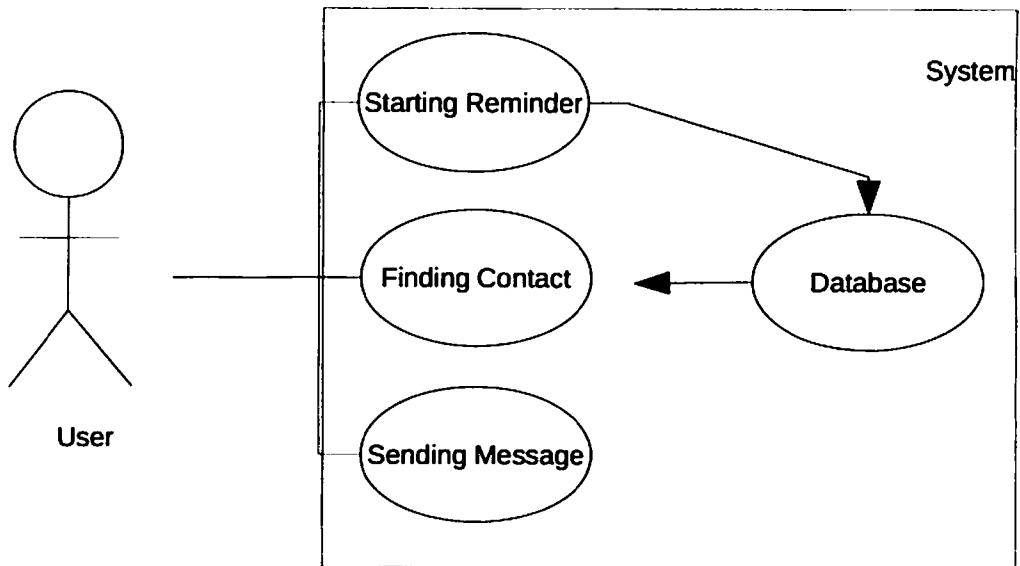


Figure 4.2.1 Use Case Diagram

- **Starting Reminder**

If the reminder is run it will issue a message box and notification. Message box and notification will remind again according to the time specified.

- **Finding Contact**

This application is searching for contacts with methods Sequential Searching, by looping the data until get the same data.

- **Sending Message**

Sending Message can performed after the contact was found. This step is performed automatically after user click SMS application.

#### 4.2.2. Flow Chart Diagram

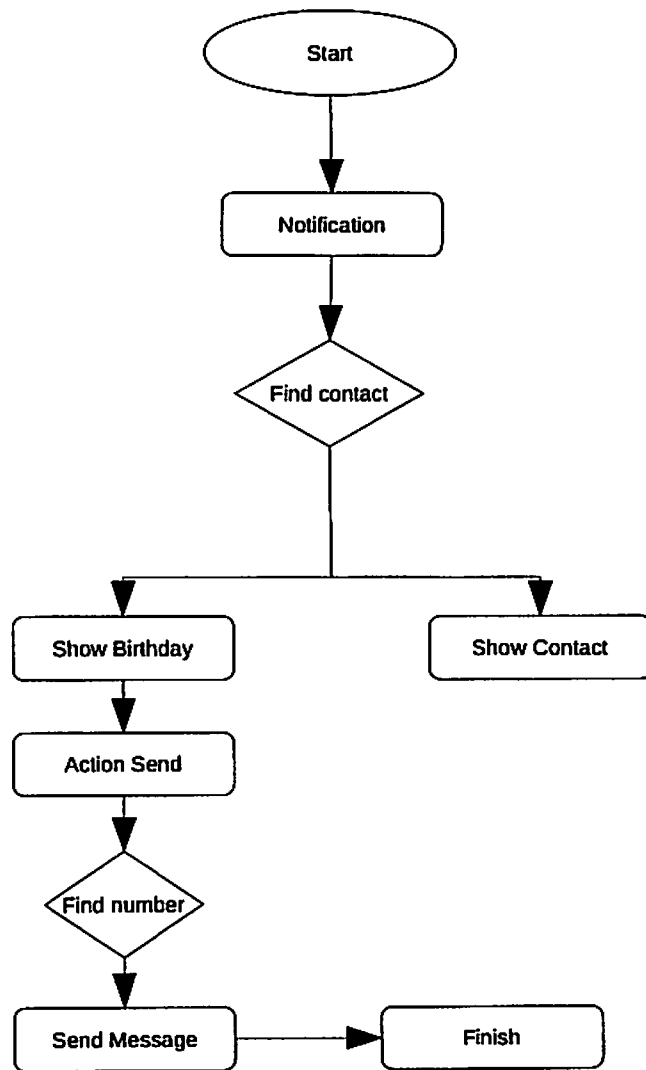


Figure 4.2.2 Flow Chart Diagram