**CHAPTER I  
INTRODUCTION**

**I.1 Background**

Technology, its growth up so fast in the middle of the people until now. From the technology of industrial, business, storing, transaction and many else. Barcode is the one of technology that used to track assets in any building including desk, computer, telephone, etc. and can be help security guards to identify every employee, every door they enter (id card), and every room they work in (id card) and can be to identity the item in the shop, and many else.

Barcode is very useful to identity of an object that have a barcode in. With barcode, people can identify the product of the item, price of the items, id number of the object, and any else can be identity by using the barcode with note, the object have a barcode. In this paper, will be tell about linear barcode that use in daily life of the people circle life, and also tell about the symbols and types of linear barcode, the smartphone as scanner reader of linear barcode and implementation of linear barcode using smartphone device.

**I.2 Writing Objective**

Main purpose of making this research paper is to introduce and explain to the reader about Implementation of Linear Barcode from Barcode Scanner Application including:

1. Knowing the Definition of Barcode.
2. Knowing the History of Barcode.
3. Knowing the Definition of Linear Barcode .
4. Knowing the Symbologiest Of Linear Barcode.
5. Knowing about Barcode Scanner
6. Knowing the Architecture Linear Barcode.
7. Knowing the Requirement to implementing Linear Barcode Using Android Smartphone Application.
8. Knowing the Implementation Linear Barcode Using Android Smartphone Application.
9. Know the advantages and disadvantages of Implementing Linear Barcode Using Android Smartphone Application.

**I.3 Problem Domain**

In theory limitation, authors limit the discussion of Implementation Linear Barcode Using Android Smartphone application. The problem domain for this paper as follow :

1. What is the Barcode ?.
2. What is the Linear Barcode ?.
3. What is Symbologiest Of Linear Barcode ?.
4. What is the Barcode Scanner?
5. What is the Architecture Linear Barcode ?.
6. What is the Requirement to implementing Linear Barcode using Android Smartphone Application ?.
7. How to Implementing Linear Barcode using Android Smartphone Application ?
8. How to Install The Software For Implementing Linear Barcode
9. How about advantage and disadvantage of Implementing Linear Barcode Using Android Smartphone Application ?

**I.4 Writing Methodology**

The method used is the method of research with data collection techniques using observations from reliable media.

**I.5 Writing Framework**

This paper, divided into four chapters. Each chapter in this study are interconnected between chapters with chapter one another by systematic writing as follows:

**Chapter I Introduction**

This chapter was published about the background of the problem, writing objective, problem domain, writing methodology, writing framework.

**Chapter II Basic Theory**

This chapter contains definition of description about definition of barcode, history of barcode, definition of linear barcode, types and uses for of linear barcode, the architecture of linear barcode, Barcode Scanner, and Barcode Scanner as reader of linear barcode.

**Chapter III Problem Analysis**

It provides more explanation about the requirements to using Barcode Scanner, Implementation of application barcode reader on Barcode Scanner, and advantages and disadvantage of Barcode Scanner.

**Chapter IV Conclusion and Suggestion**

This chapter contains a description of the conclusions and suggestions were given by the author which is derived from the author's thoughts about the topic.