**ABSTRACT** 

Five senses is an important part of body. If there is one of part which can't do the

fungtion well, It will make people slow. Actually, Not all of people have a perfact body. One

of them is blind people. They can't see everything. It makes them can not do everything

alone. But they have another ability to do something, especially their ears. Based on that fact,

I want to make an application that can produce voice. For helping blind people know

information price of product, I will make barcode scanner with voice interface.

This barcode scanner is based on andorid. First of all, when users open the application,

camera and scanner will be opened automaticlly. Then, after finding the barcode and

capturing it, system will search the database automatically. When data is found, system will

download voice recorder based in barcode data and play it on user's handphone. So, user can

hear the information of the product.

The result from this final project is scanner barcode which can be used to help blind

people indentify a product by the voice recorder. Scanner can be used in  $0^{\circ}$  until  $\pm 15^{\circ}$  and

 $\pm 165^{\circ}$  until 180° for the opposite position. The nearest product can be captured when all the

body of barcode fits in camera. Besides, the longest distance which can be captured, it

depends on the barcode dimention. Based on reality, accuration of this application is 92%.

Then, 8% failed because of mobile network in edge area.

Keywords: Android, Scanner, Barcode, Voice Interface

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