SOFTWARE DESIGN FOR PRICE MONITORING OF SEMEN INDONESIA PRODUCTS AND AREA MANAGER PERFORMANCE ON MOBILE DEVICE WITH QR CODE TECHNOLOGY

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ABSTRACT

A company that did production always has a distribution area. In each distribution area, the company always monitor the price of their products on the market. It also in PT. Semen Indonesia, which is always monitor the prices of their products in the market, and there are staffs who checked the prices, i.e., Area Manager at each distribution area. But in fact of monitoring there are often cheating by Area Manager in reporting products prices. The company had a solution before for handling that problem, they made an application for prices reporting with GPS technology, so the company can know the position of Area Manager and minimize the cheating problem by Area Manager. But Area Manager feel uncomfortable, because the company can always know everywhere they go to.

To resolve these problems, we made an applications with mobile devices with QR Code technology. QR Code used to store unique information from a store and when the Area Manager will do price checking, Area Manager required to scan the QR Code first and then can do the price reporting.
As the result of testing, the response to QR Code scanning takes 1-2 seconds with the range of ±15 cm. The process of sending and delivering of data to reporting the price and see the result of checking the price needs time of 8-15 seconds. Than the required time is very quick and can help the process of price reporting from Area Manager.

**Keyword:** Android, QR Code, Google Maps API