Universiti Teknologi Mara

A Real-time Bar Code Expiry Date Mobile Application using Ionic Framework

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ABSTRACT

For most of the superstore in Malaysia, they do not have a system that will give an alert about the product's expiry date and how to handle it rather than check the product manually. It will cause difficult to the storekeepers and need to hire more. They actually need the system because of the customers will buy basic need at least 2 or 3 times per week. QR code are 2D where it can hold a thousand alphanumeric character rather than the bar code 1D, just can store only 20 numeric digits (Korhan, 2011). For the store keepers, they can use the application to scan the QR code to insert the information of the product into the database. And then, the system will make a comparison between the current date and the expiry date of the product. Thus, this system will display the product that nearly expired to the top list. The customers also can use this application to check the product's expiry date them self to take alternative away from food poisoning. With this system, the stakeholders can manage the product's expiry date and reduce their loss of profit. It is because of the QR code generated have an information of the product especially the expiry date. This research will cover the superstore and groceries. It will ease the stakeholder's work and save their time.

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CHAPTER 1

INTRODUCTION

This chapter explain the Product's Expiry Date System. It contain the introduction, project background, problem statement, project objective, project scope, project significant and the summary of the research.

1.1 Background of Study

Generally nowadays, most of the supermarkets, groceries stores, hyper stores and the pharmacy do not have the solution how to manage their product's expiry date. According to the ministry of domestic trade, cooperatives and consumerism of Malaysia (KPDNKK), a stakeholder who sold the product that already damaged before its expiry date will be faced the fine up to RM100 000 and 3 years jail by Trade Description Act 1972. Other than that, supermarkets will be confiscation when they sold the products that already expired and dents by Food Act 1983. So, it is important for the stakeholder to have a system to avoid the problem later on. The information and expiry date is very important before the stakeholder develops their website and arrange the products based on its categories. The information will be included in QR code that will be printed out on the product's plastic. With the existing technology, we should use it for acknowledging us about the expiry product for instance supermarket develop a system rather than hire many workers and it will involve high cost. In other words, the customers also advisable to be careful when choose the products.