

**UNIVERSITI TEKNOLOGI MARA**

**EXPIRYNO: COSMETICS EXPIRY DATE TRACKER  
MOBILE APPLICATION**

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## ABSTRACT

As cosmetics product has a long shelf life, people tend to be forgetful in remembering the cosmetics expiry date. Therefore, this project developed a mobile application that helps cosmetic users to use voice recognition for cosmetics product details insertion as barcode scanning cannot capture the expiry date of the cosmetics product and to allow the users to be notified of the cosmetic expiry date. The objectives of this project are to identify the user requirement, design, and develop the ExpiryNo: Cosmetic Expiry Date Tracker Mobile Application. In this project, the scope focuses on cosmetic products such as eye makeup, lipstick, and powder and developed via the Android platform. The methodology adopted for the project is the Mobile Application Develop Life Cycle (MADLC) until the testing phase. The features developed are adding cosmetics product details using voice recognition, and push notification. This mobile application is evaluated using the System Usability Scale (SUS) to determine its efficacy and usability. As the average SUS score is 92.5, it is concluded that the majority of users considered the mobile application to be simple to use and that it includes a variety of functionalities that are effectively integrated. For future recommendations, it is proposed to enhance the development of the iOS platform, and enlarge the cosmetics product coverage.

**Keywords:** expiry date tracking, cosmetic, Mobile Application Development Life Cycle (MADLC), Android platform

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# CHAPTER 1

## INTRODUCTION

### Chapter Overview

The problem statement, aim, objectives, scope, constraints, and significance of the project are all clarified in this chapter. The project's background will provide readers with a summary of what the project is all about. Furthermore, the problem statement refers to the existing problems that have been described as conformity to the project's needs. Besides that, the project's goal and objectives specified the project's target and result. Last but not least, the project's scope is clarified, its limitations are established, and its significance is debated.

### 1.1 Project Background

According to Shah, Hu & Goyal (2016), the expiration date is important for external knowledge that shoppers search for while purchasing perishable grocery goods because it offers details about the shelf life and freshness of short shelf-life grocery items such as milk, flour, eggs, meat, or frozen vegetables. They also mentioned that the expiration date means that the commodity is still relatively recent and of high quality. In most situations of pharmaceutical items, the expiry date represents the product quality since contamination is seen by higher levels of microbiological index or moisture contents after expiration, which can also impact the non-utilization of such medications (Eltab, Alanazi, & Ali, 2020).