



DEVELOPMENT OF SECURE AND SMART ONLINE CAKE STORE

Achala Pallegedara* and Oshan Abeykoon

School of Computing, National School of Business Management, Sri Lanka

achala@nsbm.lk

ABSTRACT

This paper aims and addresses the development of a shopping cart system with more added functionality. This study explains the frequency of usage online food ordering systems and shows the requirement of more added functionality within a shopping cart. The introduced application “The Cake Store” is a web based e-commerce application for online purchases for cake, pastry & other bakery products. This application introduces new features to online shopping such as secured payments, developing a special search filter for lactose intolerant (dietary) community, Nutrition Meter and Nutrition Bill, multiple delivery options such as regular and instant with the addition of order customization option for all available delivery options, ability of notifying the customer about promotions through SMS, customer account updating such as modification of the membership tiers so that members of each tiers will receive special benefits discounts and promotions relevant to each tire, addition of points on purchase, responsive layout for multiple devices so that the customers can access from any device available, customer notification with SMS informing the online order information with a verification code from which they can ensure that the payments they make are safer and entrusted, printing an invoice for online purchased products and with one of the most user friendly and reliable user interfaces design related to online purchase of bakery products. Even though most of these features are already existing, what’s more important is utilizing all these features in one application with a higher grade of modification. We researched on existing similar application to analyze the existing features, trends and to measure their functionality. From the research we found that it was able to identify the existing features, design patterns and trends of such similar applications and their drawbacks. This application would be more ideal for urban dwellers such as office workers, busy people who have a limited amount of time to spend visiting baker. With the new application people can deliver their goods up to their doorstep with some simple clicks. Now people can order something instantly for their Office parties, birthday treats, farewell treats, meeting tiffin’s, client gatherings etc. This reduces unnecessary time wastage of people which is one of the nightmares of busy urban dwellers.

Keywords: Shopping Cart, Secured online payments, E-commerce, Secure Online Shopping