

E-Commerce Portal for a Proprietary Brand

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ABSTRACT

This work is an online Bakery that allows users/customers to access an online virtual version of a real time bakery. Nowadays, with the fast-paced dynamic environment of the world, everything is done online and it facilitates people's day to day needs at their doorstep. This project not only provides user/customer access for purchasing or viewing products, but also admin access with features of editing the inventory. This project is a simulation of the manual bakery system which greatly facilitates the needs of the customers as well as the shopkeeper, thus automating the entire bakery shopping and management. This project is a similar representation of the above stated feature, which provides access to bakery products that the users' finger-tips in a hassle-free manner.

Keywords: Proprietary, E-commerce, Portal, Online Bakery, Inventory

I. INTRODUCTION

This work is an online bakery that facilitates users/customers to check for various bakery products available at the online store and purchase online itself. In the world that we live in, everything is being done virtually, through online systems, and in the everyday chaos of our dynamic lives, people do not have the time to travel from place to place, wait or stand in queues as it becomes a really cumbersome task. People are opting for more convenient and easy ways to get their everyday chores done within the comfort of their homes, in order to save time and effort. Due to this reason, people should be able to conveniently access essentials, and bakery products is one of them. Bakery products such as bread, biscuits or cakes being as part of essentials need to be made available in a platform accessible to all the consumers. With respect to this, the need of the hour is a common platform or an e-commerce portal for a proprietary brand of bakery products which can

satisfy the requirement of the consumers as and when the need arises.

Bakery Management System is an entirely computer-based software application to maintain day to day transactions in a bakery. All the functions performed by this system are highly efficient compared to manual labour and also saves tremendous amount of time and effort. It is a user-friendly system with simple, structured, well-planned and usable features.

II. EXISTING SYSTEM

The Bakery Management System in most places is currently working manually. The current system is very time consuming and costly, because it involves lot of paper work and manual labour and is also prone to errors. To manually handle a system involving such a huge inventory is a very difficult task. But now-a-days because of computerization and

technology, [5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35] this job is becoming easier. The reasons why the current system should be computerized are to save time and effort, to avoid errors in transaction and also to apply a cost effective and long- lasting solution.

III. PROPOSED SYSTEM

The proposed system is created in PHP and HTML as a Front end and Back end SQL Server database along with few features of Java Script for the web-portal. The database is used i.e. SQL Server is a fast and well-designed tool to the user for quick manipulation of data and binding the data as a collection.

This e-commerce portal consists of a list of bakery products belonging to various categories. The user may view the portal and all its products, add products to the shopping cart, and once the user wishes to check out in order to buy the product, he/she must register on the portal first. The users can login using the same id and password next time. Appropriate payment facilities will be specified and provided. On making a successful transaction, the user gets a copy of the receipt on their email id. The main aim is to provide a platform for an e-commerce portal with the use of technology for accurate and timely processing by full privacy and full authority access.

The proposed system facilitates the user to have a fast interaction with system with respect to the front-end as well as the back-end database. It also provides the security to the records, hence preventing the database conjunction.

IV. PROBLEM STATEMENT

To provide a platform for an e-commerce portal where the users can register on the system and get

their account on site, login to the system and check various bakery items, can add new items to cart, purchase them, can make total bill payment and use technology for accurate and timely processing by full privacy and full authority access.

V. METHODOLOGY

There are different classes which have been employed in this project, some of them are described below:

Portal: This is the main class or base class of the entire system which binds together and wraps up all the sub-classes under it. It contains all the necessary functions for the main page display including the buttons and its links to the sub-classes.

Admin Login: This class creates a login portal page for the admin with exclusive username and password and the admin will be able to access and manage the product availability and stock details and alter them if required.

User Login: This class a login portal page for the user with exclusive username and password which enables the users to go to the final purchasing step of the products that they have chosen.

Products: This class contains a descriptive list of all the products available along with the variations, quantity and price and can be edited only by the admin.

Cart: This class contains all the products that the user wishes to purchase and can only be edited by that particular user.

Payment: This class contains the payment portal which can be accessed by the user at the final stage of purchase and can pay for their purchase according to their bill.

VI. LANGUAGE

The proposed system is created in PHP and HTML as a Front end and Back end MySQL Server database along with few features of JavaScript for the web-portal.

PHP is an all-purpose scripting language that is mainly used for web-development. PHP provides a much simpler and efficient platform for web-designing and creating online portals, in comparison to other languages which require lengthy and cumbersome codes for the development of such portals.

HTML is mainly used for designing purposes such as designing web-pages and can be backed up by languages such as JavaScript.

The main function of JavaScript is to enable interactive web pages which is an essential element of web-portals.

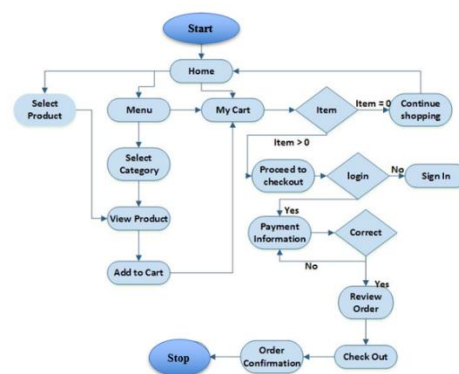
The database is used i.e. MySQL, is a fast and well-designed tool to the user for quick manipulation of data and binding the data as a collection and a well-structured database management system. MySQL is a free-to-use, open-source database that facilitates effective management of databases by connecting them to the software. It is a stable and reliable language. MySQL is renowned for being the most secure and reliable database management system used in modern day web applications including WordPress, Drupal, Facebook and Twitter. MySQL features a certain storage-engine framework that facilitates system administrators to configure the MySQL database server for a good performance. MySQL comes with the assurance of 24x7 up-time thereby, offering a wide range of solutions, including specialized cluster servers and master-slave replication configurations. All the problems that arise in an open-source solution can be brought to an end with MySQL's round-the-clock support and enterprise indemnification. It makes maintenance,

debugging and upgrades fast and easy and also helps to enhance the end-user experience. MySQL offers unmatched scalability to facilitate the management of embedded apps using a smaller footprint, even in massive warehouses that stack terabytes of data. On-demand flexibility is the major feature of MySQL. This open-source solution allows complete customization to eCommerce businesses exclusive database server requirements. MySQL features a distinct storage-engine framework that facilitates system administrators to configure the MySQL database server for a flawless performance. Thus, a combination of all these languages results in an efficient web-portal system.

VII. IMPLEMENTATION PLATFORM

The platform used for the implementation of this code is WAMP Server. WAMP Server is a software platform that supports the execution and implementation of multiple programming languages such as MySQL, PHP etc. combining all its intricate features. In certain systems, an advanced version of WAMP server is required for the implementation of this project. This need can be satisfied by the XAMPP server which provides a wide range of features which includes functions in the WAMP server as well as certain advancements in the same.

VIII. SYSTEM ARCHITECTURE



IX. IMPLEMENTATION

The implementation of this Online Bakery is done using the previously stated platform and gives a brief demonstration of the features of this portal.

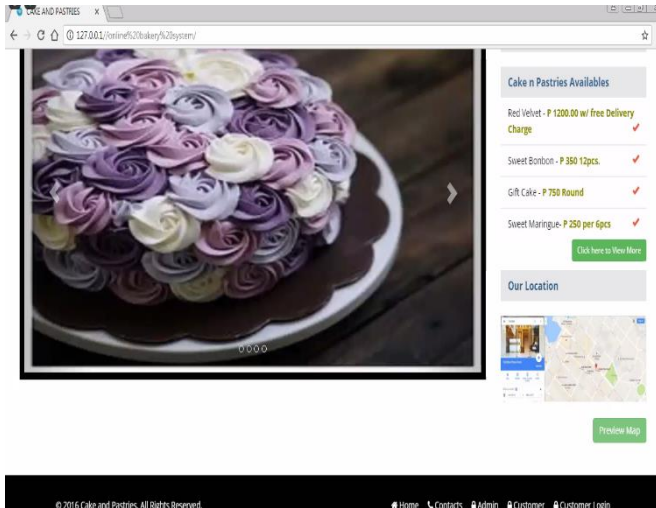


Figure 1. Main Page

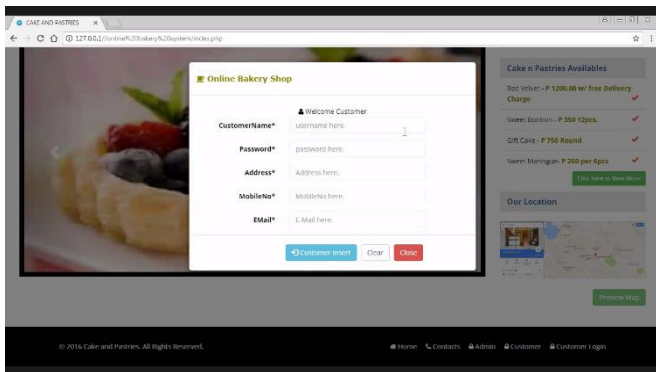


Figure 2. Customer Login/Registration

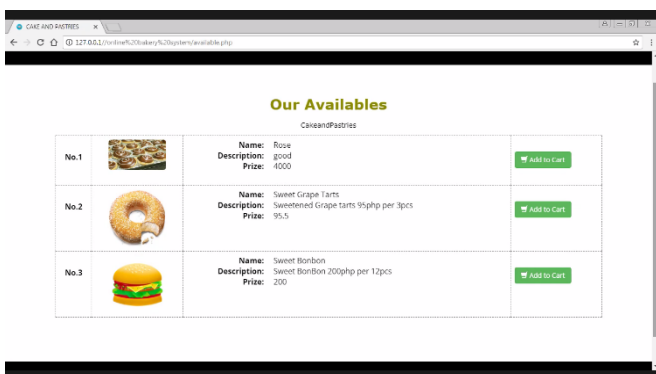


Figure 3. Menu

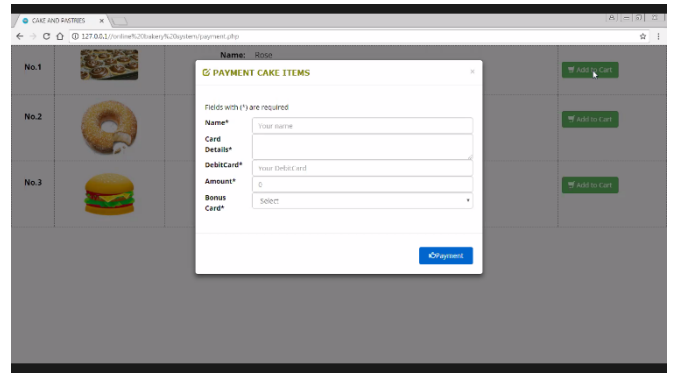


Figure 4. Payment

X. CONCLUSION

This project is a well-automated online version of the traditional bakery with well-defined features alongside the already present functions of the system. This system has some very useful advantages such as it allows only authorized users to access the data and further offers protection and security of the data, it is a user-friendly platform which can be easily accessed by the customers without involving much technicality and gives quick results, the data is stored in a systematic way in a database providing a well-defined access to bulk data information, accounts reports are accurately generated on timely basis, the product and purchase data can be retrieved efficiently as and when required by the user and altogether offers the combined facility of an online portal package.

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