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Digital Bakery Shop

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ABSTRACT

The Android platform is used to create the Digital Bakery Shop. To create the application for this project, we used Android Studio. Google Assistant, machine learning (and AI), and instant applications are examples of Android, which is the most recent technology for developers. Android is a mobile/desktop operating system built on top of a modified Linux kernel and other open source software. This programme makes commerce easier from both the buyer's and seller's viewpoints. To create this application, we used the Java programming language. In 1991, James Gosling founded Sun Microsystems Inc, which was later acquired by Oracle Corporation. It's a straightforward programming language. Java makes programming easy to write, compile, and debug. It aids in the development of reusable code and modular programmes.

A digital bakery shop that allows users to browse and purchase numerous bakery products from the online store. The project consists of a list of bread items organised by category. The user can sort these products into categories to find what they're looking for. A consumer can add a product to his shopping basket if he likes it. If a person wants to check out, he must first register on the site. The next time he logs in, he can use the same username and password. He can now pay with a variety of cards, UPI, or cash. The user receives a copy of the shopping receipt by email and mobile after completing a successful purchase. A user-friendly interface is referred to as front-end. The middle tier, often known as the code behind paradigm, is built for quick processing, and SQL is used to store bakery data. Microsoft's SQL Server is a relational database management system (RDBMS).

1. Introduction

INDIA is one of the world's largest marketing hubs. In India, both production and consumption have expanded dramatically in recent decades, and it is critical that we deliver the greatest possible experience to our customers. People find it difficult and exhausting to locate the things they want to buy when they go shopping. Shopping is time-consuming due to long and congested billing counters. Mobile devices are no longer only tools for making calls or sending text messages, thanks to technological advancements. They've evolved into our e-commerce portal, communication hub, entertainment portal, wallet, and link to real-time information tailored to our specific need. This was only made feasible by the advancement of Android, which resulted in several advancements in the mobile sector, giving rise to the powerful mobile devices we use today. [1] In India, around 650 million people use mobile phones, with 300 million of them owning a smartphone.

The Bakery Online Ordering System was created with a modest bakeshop in mind. The primary goal of this Bakery Online Ordering System is to make ordering transactions quick and accurate, to retain and secure order records, to eliminate delays in receiving ordered products, and, most importantly, to advertise products.

As a result, stronger and more complex Android applications are required to take India to the next level in terms of purchasing. The Android Studio software, which is the official Google IDE for Android development, was used to create the app. It is open source software, which reduces costs and gives a variety of tools for app creation on any Android device. The availability of a real-time platform called an emulator tool to test our app is the key benefit of this software. Apart from that, USB debugging can be used to test the programme on smartphones. Our app is divided into two sections: navigation and

billing. Navigation is largely concerned with controlling the cart's velocity and orientation. Customers who are unable to locate their products in a large, crowded store will benefit from this.

The billing system is primarily concerned with automatically updating the user's product list and quantity. SQL is utilised to interface with a database in this programme. It is the standard language for relational database management systems, according to ANSI (American National Standards Institute). SQL statements are used to conduct operations like updating data in a database and retrieving data from one.

2. Literature Review

Customer happiness is the most important factor in any business's success. The conventional handwritten approach of writing bills and keeping track of records in bakeries is inefficient and leads to organisational loss. Almost every company these days comprises of a lot of duties such as generating bills, maintaining stock records, and keeping track of client information. The issue is catching data and keeping accurate records of daily stock purchases and sales. Our software's goal is to solve all of the problems mentioned above. In addition, we must meet our client's requirements.

To improve our catalogue, we employed a web-based approach for comparing products [3.1]. We also improved and integrated a customer-based classification system [3.2]. Customers now have the option of sending a short message [3.3]. Web mining techniques were used to track client requirements. This will compare costs to those on other websites. [3.4]

2.1 Venkata Rajeev

developed a web-based system for recommending and evaluating products offered online, with natural language processing that reads reviews automatically and determines the polarity of evaluations. Bayesian naive classification

2.2 Rana AlaaEl-DeenAhmeda

Included eleven data mining classification strategies to discover the best classifier for consumer online shopping attitudes, as well as to develop a recommender system utilising a decision table classifier to find products that users are looking for on specific websites.

2.3 Noorfa H. Mustaffa

Build a system for a bakery store that uses a rational unified process to provide a Short Message Service that notifies customers when their orders are ready to be delivered and gives them delivery options.

2.4 Ming-Hsiung Ying

presented an online shopping website to search commodities using ontologies, as well as a web mining technique to watch consumer demand, such as when a website's commodity price is lower than the consumer pricing circumstances, the system will alert consumers.

3. Advantages and Disadvantages

Advantages

- The main advantage of online buying is its convenience. Customers can shop from the convenience of their own homes or offices. In internet buying, it is simple to cancel transactions.
- Customers are offered discounts by marketers in order to entice them to shop online. Retailers might provide significant discounts on the merchandise.
- Most people read product reviews online to get basic information from others who have actually tried it. Online reviews assist us in learning more about the product in which we are interested.

Disadvantages

- During online buying, there is a risk of frauds such as hacking, identity theft, credit card scams, phishing, and other scams.
- Buyers may occasionally experience an unanticipated delay in receiving the ordered item.

4. Objectives

- To promote products and make shopping simple for customers to save time.
- A safe and secure online transaction system that enables customers to buy things using a variety of cards or UPI.
- All customer information, product details and prices, and stock availability are stored in a database.
- A simple graphical user interface (GUI) will be created so that users can obtain data from the application more easily and reliably over an Internet connection.

5. Methodology

5.1 The system's consumers are divided into two groups: non-registered and registered. Customers who are not enrolled will only be able to view products in the product menu and will need to register in order to purchase them. The technology also allows the registered customer to examine their order history and receive order and delivery notifications.

5.2 The bakery store owner will operate as the system's administrator and will have complete control over the system's database and application performance. Administrators can manage products by adding, editing, or deleting them, uploading product images, adding or editing product categories, viewing order data from consumers, sending email and SMS notifications, changing order status, printing receipts, and viewing a list of registered customers.

5.3 Once the order is ready for delivery or pick-up at the store, the administrator will send an SMS notice to the customers. Additionally, the administrator has the ability to send email to customers for the purpose of verifying the customer's email address following the registration procedure and when the order status has changed.

5.4 Depending on the layout of the framework, several modules will typically access the database in order to handle all of the operations required for an online store. To recreate the regular features of a web shop, the mobile device's client also need access to the database underlying the framework. This could be accomplished by extending or writing new modules on the server side and accessing them via the Internet from the mobile device's client. The goal is achieved if the client performs all of the needed functions in the chosen framework and accurately replicates what happens during online buying.

5.5 Because it was designed to accept several frameworks in a single server-side module or plugin, frameworks written in the same language were nearly necessary. There was no need for compilation, and the installation process was as simple as copying a few files, assigning the necessary permissions, and connecting the framework to the database. While some Java-based frameworks can be challenging to compile, the web store owner may have a difficult time getting them to work.

6. System Configuration

Hardware Requirement

- Processor - Intel core i3
- RAM - 8 GB (min)
- Hard Disk - 256 GB (min)
- RAM(Mobile) - 2 GB (min)
- SoC(Mobile) - Snapdragon 400 series

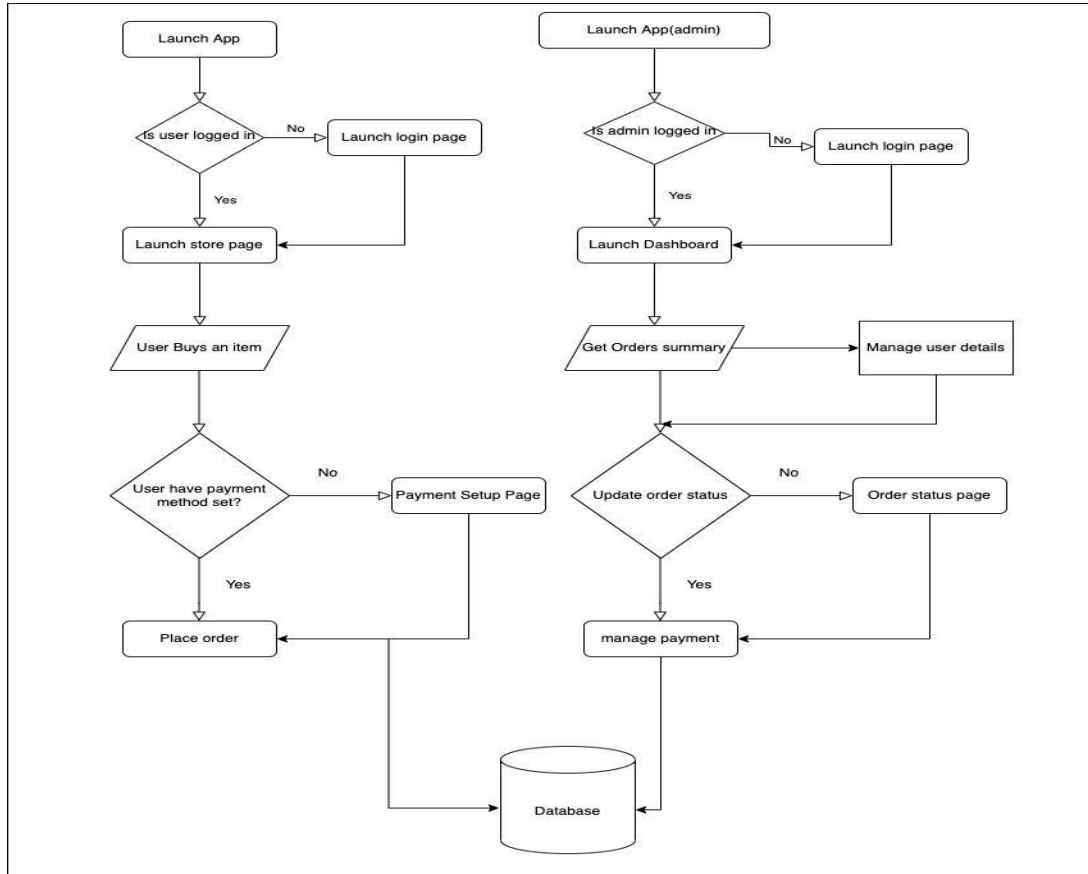
Software Requirement

- Operating System - Windows 10, MacOS Big sur, Android
- Languages - Java, php, XML
- Android Studio

Database Requirement

- SQL

7.Flowchat



8. Scope of Project

The Bakery Online Ordering System was created with a modest bakeshop in mind. The primary goal of this Bakery Online Ordering System is to make ordering transactions quick and accurate, to retain and secure order records, to eliminate delays in receiving ordered products, and, most importantly, to advertise products.

9.Conclusion

We came across various concepts in JavaScript, PHP to create this website. Through this platform teachers are going to be benefited as it will provide ease to maintain all their records. We have put many modules like personal information, academic information, course file, attendance, leave application and self-documentation so teachers will be able to fill all there data separately in them. It is a secure platform for any sensitive information of the teacher.

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4] Department of Information Management, Chung Hua University, Hsinchu, Taiwan. Ming-Hsiung Ying*, Yeh-Yen Hsu "commodity search engine for online shopping based on ontology and web mining."