WEB APPLICATION FOR GGBEESS CAKE SHOP

A PROJECT REPORT
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In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF SCIENCE

IN

SOFTWARE SYSTEMS

DEPARTMENT OF COMPUTER TECHNOLOGY -UG

KONGU ENGINEERING COLLEGE

(Autonomous)

PERUNDURAI   ERODE – 638060

OCTOBER 2024

DEPARTMENT OF COMPUTER TECHNOLOGY-UG

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BONAFIDE CERTIFICATE

This is to certify that the project report titled **"WEB APPLICATION FOR GGBEESS CAKE SHOP"** is the approved record of work done by **KARTHIKA.N (REG NO: 22BSR023) PONABARNA.J (REG NO: 22BSR038) NIDARSHANAA.J (REG NO: 22BSR035)** in partial fulfilment for the award of Degree of Bachelor of Science in **Software Systems** of Anna University Chennai during the year 2023-2024.

SUPERVISOR   **HEAD OF THE DEPARTMENT**

(Signature with seal)

Date:

Submitted for the end semester viva-voce examination held on

INTERNAL EXAMINER   **EXTERNAL EXAMINER**

DEPARTMENT OF COMPUTER TECHNOLOGY-UG

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DECLARATION

We affirm that the project report titled "**WEB APPLICATION FOR GGBEESS CAKE SHOP**" is being submitted in partial fulfilment of the requirements for the award of **B.Sc. a degree in Software Systems** is the original work carried out by us. It has not formed part of any other project report or dissertation based on which degree or award was conferred on an earlier occasion of any other candidate.

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I certify that the declaration made above by the candidates is true to the best of my

knowledge.

Date: Name and Signature of the Supervisor

ABSTRACT

This project aims to develop an user friendly and visually enchanting online website specifically for cake shop. In the increasingly competitive baking industry, many potential customers seek convenient ways to explore products, place orders, and interact with bakeries online. However, existing solutions often lack user-friendly interfaces, comprehensive product information, and hindering customer satisfaction and inhibiting sales growth.

The platform will include features such as an intuitive user interface for customers to browse and order cakes, a backend system for managing orders, inventory, and a customer relationship management (CRM) module customer preferences and feedback. Furthermore, the system will incorporate secure payment gateways to enable smooth transactions and guarantee the security of consumer data. The cake shop hopes to streamline business procedures, increase customer happiness, and increase sales by putting this idea into practice.

The user interactive webpage would be designed by using certain tools like ReactJS ensuring a dynamic and responsive user experience, allowing for efficient updates and rendering of components. Development of backends is done with Node.js. Data administration and orders would be handled by MongoDB. Express.js as server-side operations.

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CHAPTER 1

INTRODUCTION

In the existing solution, require members to physically visit the business in order to place their cake orders based on their preferences. The goal of the GGBEESS cake shop website project is to transform a typical cake shop's online presence by providing a interactive platform where clients can create and order uniquely themed cakes that are tailored to their preferences and special occasions. With the use of this project's user- friendly interface, clients may add several options to their cakes, like flavours, occasions, themes, and exact quantities.

The foundation of the website is a strong backend system driven by Express and Node.js, which guarantees secure interactions and smooth user data handling. Customer data and customization details may be efficiently stored and retrieved by the usage of MongoDB as the database. React.js and styled-components are used in the website's design to create a responsive.

The website's design leverages React.js and styled-components, providing a responsive and visually appealing interface that works seamlessly across different devices. Orders, inventory, and a customer relationship management (CRM) module to monitor client preferences are managed by a backend system. Secure payment channels will be integrated into the system to enable smooth transactions. By combining these for technology, the website is guaranteed to be scalable and dependable, able to accommodate growing user bases and requests personalization.

The initiative also places a strong emphasis on our cakes' excellent photos. Customers can design their cakes using interactive forms. A seamless and safe purchasing experience. Simple access to resources for assistance and customer care. The goal of the GGBEESS cake store website is to establish for online cake ordering services by utilizing a thorough and inventive approach.

CHAPTER 2

SYSTEM ANALYSIS

2.1 EXISTING SYSTEM

Conventional ordering systems require members to physically visit the business in order to place their cake orders based on their preferences. A lot of prospective consumers look for easy ways to browse items, make orders, and communicate with bakeries online. Customers find it challenging to place orders outside of physical store's set operating hours. Missed sales chances may result from this, particularly for orders placed in the last minute.

Conventional marketing techniques may be more expensive and less successful in reaching large audiences. This may result in problems that negatively impact consumer happiness, such overbooking or stock outs. Physical shops have fixed operating hours, making it difficult for customers to place orders outside these hours.

This can lead to missed opportunities for sales, especially for last-minute orders. Without an online presence, it's challenging to effectively market and promote the shop's offerings. Managing inventory and orders manually can be inefficient and prone to errors. This can lead to issues such as overbooking or running out of stock, affecting customer satisfaction.

2.1.1 DRAWBACKS OF EXISTING SYSTEM:

The existing system has following disadvantages

☐ Customers need to make multiple visits for cake ordering.

☐Limited Marketing and Promotion

☐ Managing inventory and orders manually can be inefficient and prone to errors.

2.2 PROPOSED SYSTEM

By having an internet presence, the cake shop may connect with more people outside of the neighborhood. This may draw in new clients that otherwise might not have found the store. The cake shop has an advantage over other local businesses that do not have an internet presence because of its well-designed website. It exhibits modernity and a dedication to client comfort.

A well-designed website offers comprehensive product details, excellent photos, and simple navigation to improve the entire user experience. In order to increase customer happiness and loyalty, help and FAQs are also available.

An internet platform makes it possible to gather important information about the tastes and purchasing patterns of customers. By analyzing this data, businesses may make well-informed decisions and customize their offers to better suit their needs.

2.2.1 Advantages of Proposed System

☐ Simplifies record maintenance.

☐ Provides a wide range of customization themes and designs.

☐ Attracts more audiences.

☐ Saves customer's time.

CHAPTER 3

HARDWARE AND SOFTWARE SPECIFICATION

3.1 HARDWARE SPECIFICATIONS

SYSTEM   : I5 PROCESSOR

RAM   : 8GB

HARD DISK   : 470 GB

MONITOR   : 14 COLOR MONITOR

PRINTER   : TEXT PRINTER

KEYBOARD   : 80 KEY STANDARD KEYBOARD

3.2 SOFTWARE SPECIFICATIONS

OPERATING SYSTEM   : WINDOWS11

FRONT END   : CSS, REACT JS

BACK END   : MONGO DB, NODE JS

ENVIRONMENT   : VISUAL STUDIO, CHROM

3.3 FRONT END

3.31 REACT JS

React is a popular JavaScript library for building user interfaces. It is commonly usedfor creating interactive and dynamic web applications. React is primarily used to build user interfaces for web applications. It allows developers to create reusable UI components that can be completed together to build complex interfaces.

React uses virtual representation of the Documents Object Model (DOM), which it usesto efficiently update the actual DOM. This minimizes the number of real DOM manipulations, resulting in improved performance.

React allows you to manage the state of the application, enabling you to create dynamicand interactive user interfaces. React is a versatile library that can be used to create a wide range of applications, from a small single-page apps to large-scale, enterprise-level web applications.

3.3.2 CSS

CSS is used for describing the appearance of HTML elements. Font properties, borders, background images, colours and sizes are assigned using CSS. CSS can be directly added to html in the head tag. It saves time since it is reusable and can be used in multiple HTML pages.

There are three Style Sheets Inline, Embedded and External. Inline style sheets are placed inside the HTML element using style attribute. Embedded Style Sheets are placed in style tag within the head tag. External Style Sheets are placed in external text file with the extension .CSS and linked with the head tag of the HTML file.

3.4 BACKEND

3.4.1 MONGO DB

MongoDB is a popular NoSQL database management system that is designed to store and manage large volumes of data. It is particularly well-suited for applications that require flexible and scalable data storage . E-commerce websites often use the MongoDB to handle user profiles, shopping carts, and order history.

MongoDB can be used to store and analyse large amounts of data in real-time, making it suitable for applications like monitoring, logging, and reporting. Business that manage large catalogue of products or inventory can use MongoDB to efficiently store and retrieve data.

3.4.2 NODE JS

Node.js is a popular runtime environment that allows you to run JavaScript on the server-side. It is widely used for building web applications, APIs, and various other types of software.

Node.js can be used to create API gateways that route and manage requests to various backend services. Node.js can be used to build E-commerce platforms with features like product listings, shopping carts, and payment processing. Node.js can serve as the backend for web and mobile applications, providing data storage, and communication with database.