

Shree Swaminarayan College Of Computer Science

Cake Corner

By

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UNDER GUIDANCE

OF

Mr. Parag Makwana

SUBMITED TO

SHREE SWAMINARAYAN COLLEGE OF COMPUTER SCIENCE.

FOR DEGREE OF BACHELOR OF COMPUTER APPLICATION



Shree Swaminarayan College Of Computer Science

(Affiliated to M. K. Bhavnagar University)

GURUKUL CAMPUS, SARDARNAGAR, BHAVNAGAR-364001

SSCCS

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assigned to his/her at entitled Cake Corner

during the period December-2023 to April-2024 as a part of Bachelor of
Computer Application (BCA) syllabus (2023-2024).

Date :

Place : Bhavnagar

Project Guide

I/C Principal

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during the period December-2023 to April-2024 as a part of Bachelor of
Computer Application (BCA) syllabus (2023-2024).

Date :

Place : Bhavnagar

Project Guide

I/C Principal

PREFACE

It has been stated, each long journey starts with a little step now a day. The world becomes complex and going towards direction of computerization. So, **M.K. Bhavnagar University** has included project and industrial study as a part of **Bachelor of Computer Application (BCA)** course.

Today's competitive market works on current market technologies. Therefore it is necessary that the system developed by you should be based on that technology.

Now a day, computers are used in all most all fields. we hardly find any field that does not make use of computers. This itself says that the working method of people has changed a lot from ancient times to today's fast and efficient widely used technology.

*Knowledge comes by learning,
Skill comes by experience.*

Computers are finding an important place in all fields because of its user friendly so establish yourself in this market you need to design the system in such a way that they don't find any difficulty to the extent possible. This is probably one of the most difficult tasks for the developers also the system must adapt to new skills that are friendliness and practical usefulness is taken into account.

*With knowledge you know only words,
With experience you know the meanings.*

we strongly believe that this report will be helpful in guiding the user about our system and making them feel comfortable while working with the system.

Thank you.

ACKNOWLEDGEMENT

On the successful completion of my work I would like to express my sincere thanks to all those who guided, advised, inspired and supported me during my project work at Shree Swaminarayan College of Computer Science, Bhavnagar.

I would also like to extend my heart-felt gratitude to my honorable guide **Mr. Parag M. Makwana** (Asst. Professor, Shree Swaminarayan College of Computer Science) whose expertise, guidance, support, encouragement has made this report possible. My success, the completion of my project would not have been possible without the nurturing of his, which also helped me in doing a great deal of exploration, and I get to learn numerous new things.

I would like to acknowledge **the Dr. Kalpesh U. Gundigara** (Academic Head, Shree Swaminarayan College of Computer Science) has been a true visionary, who has constantly inspired us for this report.

At the outset I express sincere thanks to our principal **Mr. Paresh R. Rathod** (I/C Principal, Shree Swaminarayan College of Computer Science) who gave me unique and excellent opportunity to work in their esteemed organization.

How can I forgot **Our Staff Member** of College for giving the valuable knowledge during all the 3 months, it was served as a base for me. This will help me for the lifetime. A special thanks for them.

Last but not the least my sincere thanks to my **family members** and **friends** for their continuous support, inspiration and encouragement without who this project would not have been a success.

ABSTRACT

The main purpose of the project is intended to develop an online store for the convenience of customer and the admin (owner).

The website provides an easy user Interface and through which a large amount of information or service or products be available to all the people of Bhavnagar.

This website serves people with electronic commercial items i.e. Printers and Scanners and other related to printing industry. The idea is that people of Bhavnagar can easily buy printer or scanner from home and also they can Book service request for their existing printing machine.

This portal is developed using HTML, CSS and PHP technology, while backend is done through MySQL.

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PROJECT PROFILE

Project Title:	Cake Corner
Project By:	Sutariya Akshay H. [25260013] Bhayani Dev J. [25260037]
Guided By:	Mr. Parag Makwana
Duration:	3 Months
Front end Used:	ReactJs, HTML, CSS, JavaScript, Bootstrap
Back end used:	Firebase
Operating System:	Microsoft windows 11
Submitted To:	Shree Swaminarayan College of Computer Science, Gurukul Campus, Sardarnagar, Bhavnagar-364002.

INTRODUCTION



Introduction

Welcome to Cake Corner, where sweetness meets convenience! At Cake Corner, we believe in turning every occasion into a delightful celebration with our mouthwatering cakes.

Whether you're craving a decadent chocolate indulgence, a whimsical birthday cake, or a sophisticated wedding masterpiece, we have something to tantalize every taste bud.

Our online cake selling website is your one-stop destination for all things sweet. With a delectable array of flavors, designs, and sizes, our cakes are crafted with love and attention to detail by our expert bakers.

From classic favorites to trendy creations, each cake is made using the finest ingredients to ensure a heavenly taste experience with every bite.

Browse through our user-friendly website to explore our diverse range of cakes, customize your order to suit your preferences, and enjoy the convenience of doorstep delivery.

Whether you're celebrating a special milestone or simply craving a sweet treat, Cake Corner is here to make every moment sweeter.

Background

Your best bet for beautiful bespoke cakes online is Cake Corner. A wide selection of exquisite cakes for any occasion are featured on our website. Cake Corner guarantees a hassle-free experience with a streamlined online purchasing process, safe transactions, and dependable delivery services.

Using only the best ingredients, our team of talented bakers and decorators is committed to producing cakes that are both aesthetically pleasing and delicious. We put a high value on client happiness and based on your tastes. You can rely on Cake Corner to sweeten your important occasions. Place your order right away to enjoy the delight of consuming a Cake Corner masterpiece.

Objective

The primary objective of Cake Corner's online cake selling website is to extend our renowned bakery experience into the digital space, providing customers with a seamless platform to browse, customize, and purchase our premium cakes and confections from the comfort of their homes.

By leveraging digital technology, our goal is to enhance accessibility, expand our customer base, and elevate the joy of celebrations by offering a convenient, personalized, and delightful online shopping experience that upholds the same standards of quality, craftsmanship, and customer satisfaction that define Cake Corner's brick-and-mortar operations.

1. Expand Market Reach:

Increase Cake Corner's market presence by establishing an online platform to reach customers beyond the local community, tapping into wider regional and potentially global markets.

2. Enhance Accessibility:

Provide customers with a convenient and accessible way to explore Cake Corner's products and place orders from the comfort of their homes or on the go, catering to modern consumer preferences for online shopping.

3. Improve Customer Engagement:

Foster deeper engagement with existing customers and attract new ones by offering an interactive and user-friendly online experience that showcases Cake Corner's range of offerings, customization options, and special promotions.

4. Increase Sales Revenue:

Drive sales growth by leveraging the online platform to showcase Cake Corner's diverse catalog of cakes and confections, capitalize on seasonal trends and special occasions, and incentivize purchases through targeted marketing strategies.

5. Streamline Operations:

Optimize bakery operations by implementing efficient order management, inventory tracking, and delivery logistics systems, ensuring seamless fulfillment of online orders while maintaining the high standards of quality and service that Cake Corner is known for.

6. Establish Brand Identity:

Reinforce Cake Corner's brand identity and reputation for excellence in baking by delivering a consistent and memorable online experience that reflects the bakery's commitment to craftsmanship, creativity, and customer satisfaction.

7. Measure Performance:

Implement analytics tools and metrics to track key performance indicators (KPIs) such as website traffic, conversion rates, customer satisfaction scores, and revenue metrics, enabling continuous optimization of the online cake selling website to achieve business objectives.

Purpose and Scope

Purpose

The purpose of Cake Corner's online cake selling website is multifaceted, aiming to fulfill several key objectives:

1. Enhanced Accessibility:

The website seeks to break geographical barriers and make Cake Corner's delectable creations accessible to a wider audience beyond our physical storefront. Customers can conveniently browse, customize, and order cakes from anywhere, anytime, using their computers or mobile devices.

2. Convenience and Flexibility:

By offering an online platform, Cake Corner aims to cater to the busy lifestyles of modern consumers who may not always have the time to visit our brick-and-mortar store. The website provides a convenient and flexible alternative for customers to place orders, whether they're planning a celebration weeks in advance or seeking a last-minute dessert option.

3. Personalization and Customization:

The website facilitates personalized cake ordering experiences, allowing customers to tailor their cakes according to their preferences, dietary requirements, and specific event themes. From selecting flavors and designs to adding custom messages or

photos, customers have the freedom to create unique, one-of-a-kind creations that reflect their individual tastes and preferences.

4. Seamless Integration with Offline Operations:

While expanding into the digital space, Cake Corner ensures a seamless integration with its existing brick-and-mortar operations. Orders placed through the website seamlessly flow into our production and delivery processes, ensuring consistency in quality and service across all touchpoints.

5. Brand Extension and Customer Engagement:

The online cake selling website serves as an extension of Cake Corner's brand identity, reinforcing our commitment to quality, creativity, and customer satisfaction in the digital sphere. Through engaging content, interactive features, and personalized customer interactions, the website fosters meaningful connections with both existing and potential customers, driving brand loyalty and advocacy.

Scope

The scope of Cake Corner's online cake selling website encompasses a comprehensive range of features, functionalities, and services designed to deliver an exceptional online shopping experience:

1. Product Catalog:

The website showcases Cake Corner's diverse range of cakes, cupcakes, pastries, and confections, categorized by occasion, flavor, and design. High-quality images and detailed descriptions provide customers with a visually appealing and informative browsing experience.

2. Ordering and Checkout:

The website features a user-friendly ordering process, guiding customers through the selection and customization of their cakes before proceeding to secure checkout. Multiple payment options, including credit/debit cards, digital wallets, and online banking, ensure convenience and flexibility for customers.

3. Delivery and Pickup:

Cake Corner offers reliable delivery services, allowing customers to schedule doorstep delivery of their orders at their preferred date and time. Alternatively, customers can opt for in-store pickup, providing flexibility for local customers who prefer to collect their orders in person.

4. Customer Support and Feedback:

Dedicated customer support channels, including live chat, email, and phone support, are available to assist customers with inquiries, order tracking, and resolution of any issues or concerns. Additionally, the website encourages customer feedback and reviews, facilitating continuous improvement and enhancing customer satisfaction.

5. Promotions and Marketing:

The website serves as a platform for promoting special offers, seasonal promotions, and new product launches, encouraging repeat purchases and driving customer engagement. Integrated marketing tools, such as email newsletters, social media integration, and referral programs, help expand Cake Corner's reach and attract new customers to the platform.

REQUIREMENT & ANALYSIS



A graphic illustrating requirement analysis. It features a light blue background with three people standing around a large digital screen displaying various charts and graphs. The text "REQUIREMENT ANALYSIS" is written in a white circle on the left side.

REQUIREMENT
ANALYSIS

Problem Definition

1. Limited Customer Reach:

Cake Corner's physical location may limit its customer reach, making it difficult to attract customers outside of the local area.

2. Competition:

The online cake selling market is highly competitive, with numerous established players and new entrants vying for market share.

3. Quality Control:

Ensuring consistent quality and freshness of cakes during delivery can be a challenge, affecting customer satisfaction and repeat business.

4. Payment Security:

Ensuring secure payment methods and protecting customer information is crucial to building trust and confidence in the online platform.

5. Technical Issues:

Technical issues, such as website downtime, slow loading times, or security breaches, can negatively impact the customer experience and damage the brand's reputation.

6. Customer Service:

Providing excellent customer service, including timely responses to inquiries and resolving any issues or complaints, is essential to building a loyal customer base.

7. Branding and Marketing:

Establishing a strong brand presence and effectively marketing the online platform to attract and retain customers is a significant challenge.

8. Customization and Personalization:

Providing a wide range of customization options while ensuring efficient and timely delivery can be challenging, particularly during peak periods.

9. Delivery Logistics:

Ensuring timely and reliable delivery, particularly during peak periods, can be a challenge, affecting customer satisfaction and repeat business.

10. Scalability:

As the business grows, scaling operations, including production, delivery, and customer service, can be a challenge, requiring significant investment and planning.

- In summary, the key challenges for Cake Corner's online cake selling website include expanding customer reach, ensuring consistent quality and freshness, providing secure payment methods, addressing technical issues, delivering excellent customer service, building a strong brand presence, managing delivery logistics, and scaling operations as the business grows.

Requirement Specification

1. User Interface and Design:

- The website should feature a visually appealing and intuitive user interface (UI) that reflects Cake Corner's brand identity, with easy navigation and clear calls-to-action.
- It should be responsive and optimized for seamless browsing across various devices, including desktops, laptops, tablets, and smartphones.

2. Product Catalog:

- The website should showcase an extensive catalog of cakes, cupcakes, pastries, and related confections, categorized into relevant sections such as occasion-based cakes (e.g., birthdays, weddings, holidays), flavors, and dietary preferences.
- Each product listing should include high-quality images, detailed descriptions, pricing information, and customization options (if applicable).

3. Customization Features:

- Customers should have the ability to customize their cakes by selecting flavors, sizes, designs, and adding personalized messages or images.
- The website should incorporate interactive tools or interfaces that allow customers to visualize their customized cakes in real-time, facilitating the decision-making process.

4. Ordering Process:

- The website should offer a seamless and user-friendly ordering process, allowing customers to add products to their cart, review their selections, and proceed to checkout with ease.
- Customers should have the option to create accounts for streamlined order management, order tracking, and personalized recommendations.

5. Payment Gateway and Security:

- The website should integrate a secure payment gateway that supports multiple payment methods, including credit/debit cards, digital wallets, and online banking.
- It should comply with industry-standard security protocols (e.g., SSL encryption) to ensure the confidentiality and integrity of customer payment information.

6. Customer Engagement and Support:

- The website should provide various channels for customer support, including live chat, email, and telephone assistance, to address inquiries, resolve issues, and provide guidance throughout the ordering process.
- It should feature an FAQ section that addresses common queries related to products, ordering, delivery, and payment.

7. Delivery and Logistics:

- The website should offer flexible delivery options, including scheduled delivery dates, time slots, and delivery addresses, allowing customers to choose their preferred delivery arrangements.
- It should calculate shipping costs accurately based on factors such as distance, delivery speed, and order weight, and provide transparent pricing information at checkout

8. Feedback and Reviews:

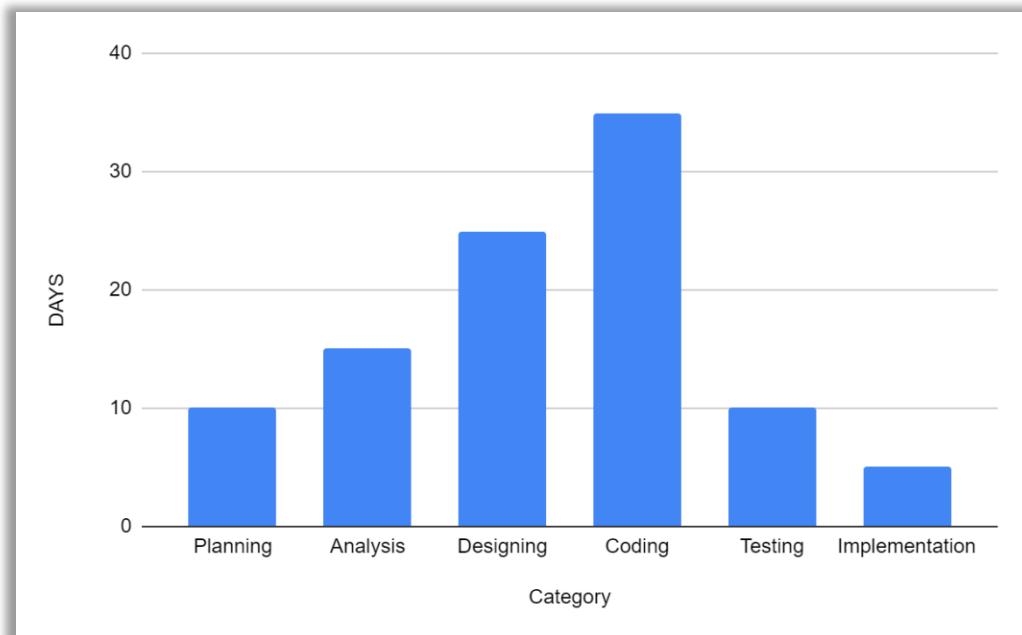
- The website should include mechanisms for collecting customer feedback and reviews, enabling customers to rate their purchases, provide testimonials, and share their experiences with Cake Corner's products and services.
- Customer feedback should be monitored and analyzed to identify areas for improvement and inform future enhancements to the website and product offerings.

9. Performance and Scalability:

- The website should be optimized for performance, with fast loading times, minimal downtime, and scalability to accommodate fluctuations in traffic volume during peak periods and promotional events.

- It should be regularly monitored and maintained to identify and address performance issues promptly, ensuring a smooth and uninterrupted user experience for customers.

Planning and Scheduling



Software/ Hardware Requirement

Server Side's Core Components	
Front End	<ul style="list-style-type: none">1. HTML2. CSS3. JAVASCRIPT4. BOOTSTRAP5. REACT JS6. VISUAL STUDIO CODE
Back End	<ul style="list-style-type: none">1. FIREBASE

Hardware Requirements	
Processor	64-bit, Intel core I3, 1.70GHz
RAM	4 GB
SSD/Hard disk	256 GB or Higher

Software Requirements	
Operating System	Window 7 [64 Bit]
Database	Firebase

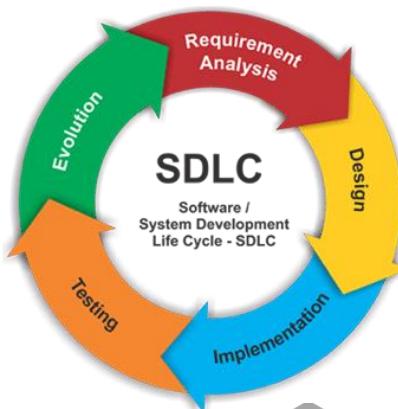
System Development Life Cycle

Project Life Cycle [SDLC]:-

“The System Development Life Cycle (**SDLC**) method is classically thought of as the set of activities that **analyst**, **designers**, and users carry out to develop and implement an information system.”

The approach for the development of the project is called the Software Development Life Cycle (**SDLC**). The concepts and working of SDLC is a standard, guaranteed way to achieve deadlines and completion of milestones for project preparation and completion.

The **software development life cycle** is a project management technique that divides complex projects into smaller, more easily managed segments or phases. Segmenting projects allows managers to verify the successful completion of project phases before allocating resources to subsequent phases.



Feasibility Study

A feasibility study is undertaken to determine the possibility or probability of either improving the existing system or developing a completely new system. It helps to obtain an overview of the problem and to get rough assessment of whether feasible solution exists. There are seven aspects in feasibility study portion of the preliminary investigation.



- Technical Feasibility
- Market Feasibility
- Financial Feasibility
- Operational Feasibility
- Legal and Regulatory Feasibility

Technical Feasibility

1. Website development:

Assess the technical requirements for building a user-friendly and secure online platform for cake browsing, ordering, and payment processing.

2. Hosting and infrastructure:

Determine the scalability and reliability of hosting services to accommodate potential spikes in website traffic, especially during peak seasons.

3. Mobile responsiveness:

Ensure the website is optimized for mobile devices to cater to users accessing the platform from smartphones and tablets.

Market Feasibility

1. Analysis of the demand for online cake purchases:

Research shows an increasing trend in online shopping for food items, including cakes.

2. Target market identification:

Cake Corner aims to target individuals looking for convenient and high-quality cake options for various occasions, including birthdays, weddings, and celebrations.

3. Competitor analysis:

Identify and analyze existing online cake sellers to understand market dynamics, pricing strategies, and areas of differentiation.

Financial Feasibility

1. Cost estimation:

Calculate the initial investment required for website development, hosting, marketing, inventory, and staffing.

2. Revenue projections:

Forecast sales based on market research and pricing strategies, considering factors such as average order value, repeat purchases, and seasonal fluctuations.

3. Break-even analysis:

Determine the timeframe within which Cake Corner needs to generate sufficient revenue to cover its expenses and start generating profits.

Operational Feasibility

1. Supply chain management:

Establish partnerships with suppliers for sourcing high-quality ingredients and materials required for cake production.

2. Order fulfillment process:

Develop efficient logistics and delivery mechanisms to ensure timely and safe delivery of cakes to customers' doorsteps.

3. Customer service:

Implement a responsive customer support system to address inquiries, resolve issues, and ensure customer satisfaction.

Legal and Regulatory Feasibility

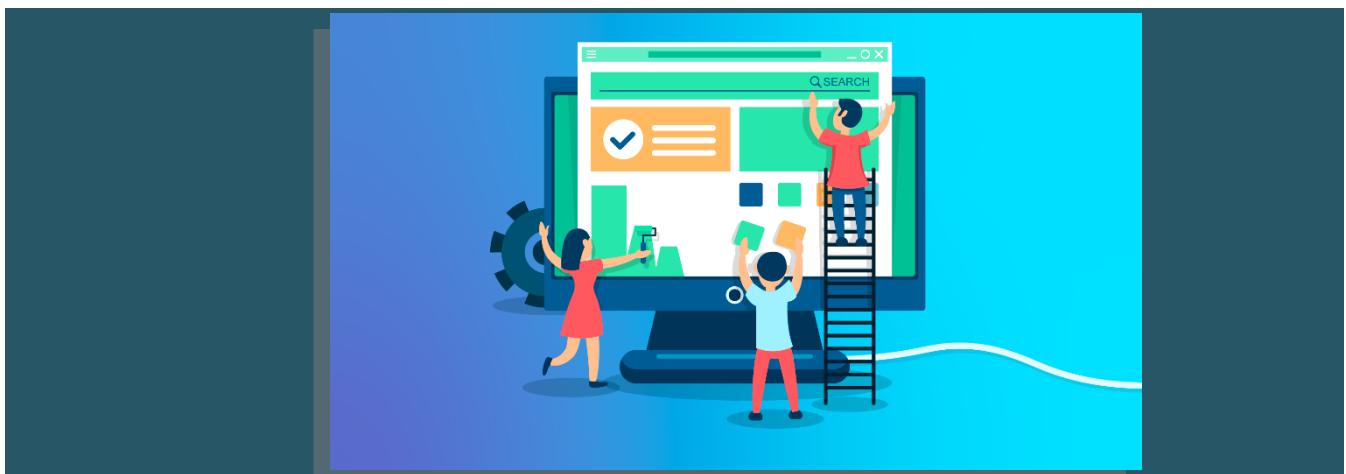
1. Compliance with food safety regulations:

Ensure that Cake Corner adheres to local health and safety standards for food handling, storage, and transportation.

2. Business registration and licensing:

Obtain necessary permits and licenses to operate an online food retail business in the target market jurisdiction.

SYSTEM DESIGN



System Design Using Designing Tools

Notation of DFD

What is DFD ?

A data flow diagram (DFD) is a graphical representation of the "flow" of data through an information system, modeling its process aspects. A DFD is often used as a preliminary step to create an overview of the system, which can later be elaborated.

We usually begin withdrawing a context diagram, a simple representation of the whole system.

This could continue to evolve to become a level 2 diagram when further analysis is required. Progression to level 3, 4 and so on is possible but anything beyond level 3 is not very common. Please bear in mind that the level of detail asked for depends on your process change plan.

Rules:-

1. Each process must have a minimum of one data flow going into it and one data flow going out of it.
2. Each data store must have at least one data flow going into it and one data flow leaving it.
3. A data flow out of a process should have some relevance to one or more of the data flows into a process.
4. Data stored in a system must go through a process.

5. Filing systems within an organization cannot logically communicate with one another unless there is a process involved. 6. All processes in DFD must be linked to either another process or a data store.

NOTATION

- **External Entity:-**

An external entity can represent a human, system or subsystem. It is where certain data comes from or goes to. It is external to the system we study, in terms of the business process. For this reason, people used to draw external entities on the edge of a diagram.

- **Process:-**

A process is a business activity or function where the manipulation and transformation of data take place. A process can be decomposed to a finer level of details, for representing how data is being processed within the process.

- **Data Store:-**

A data store represents the storage of persistent data required and/or produced by the process. Here are some examples of data stores: membership forms, database tables, etc.

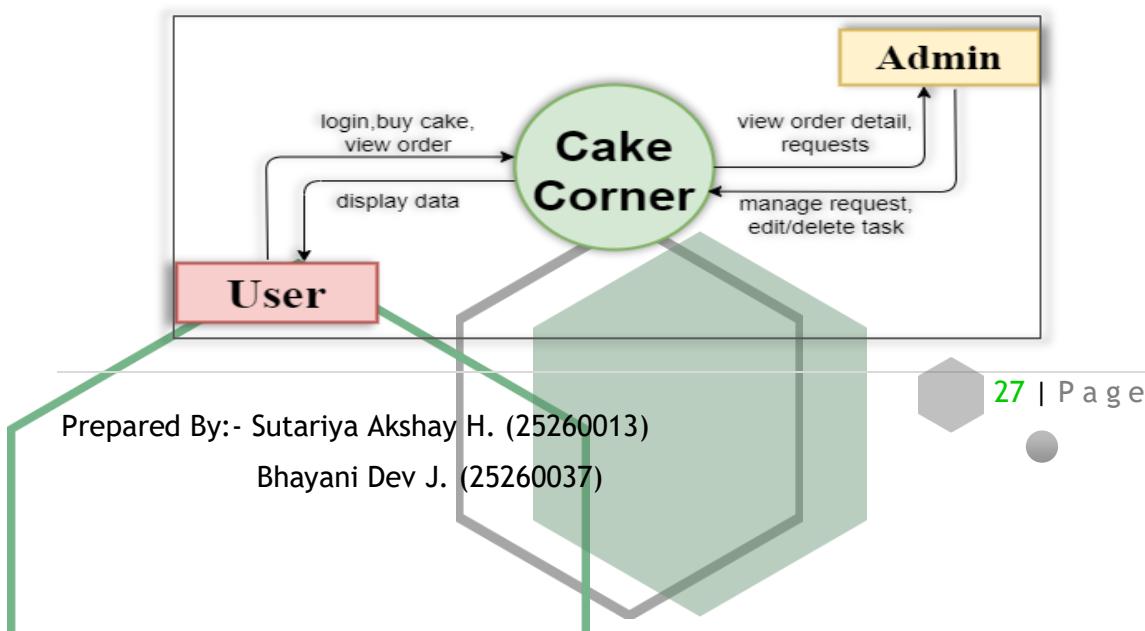
▪ Data Flow:-

A data flow represents the flow of information, with its direction represented by an arrowhead that shows at the end of flow connector.

Notation	De Marco & Yourdon	Gane and Sarson
External Entity		
Process		
Data Store		
Data Flow		

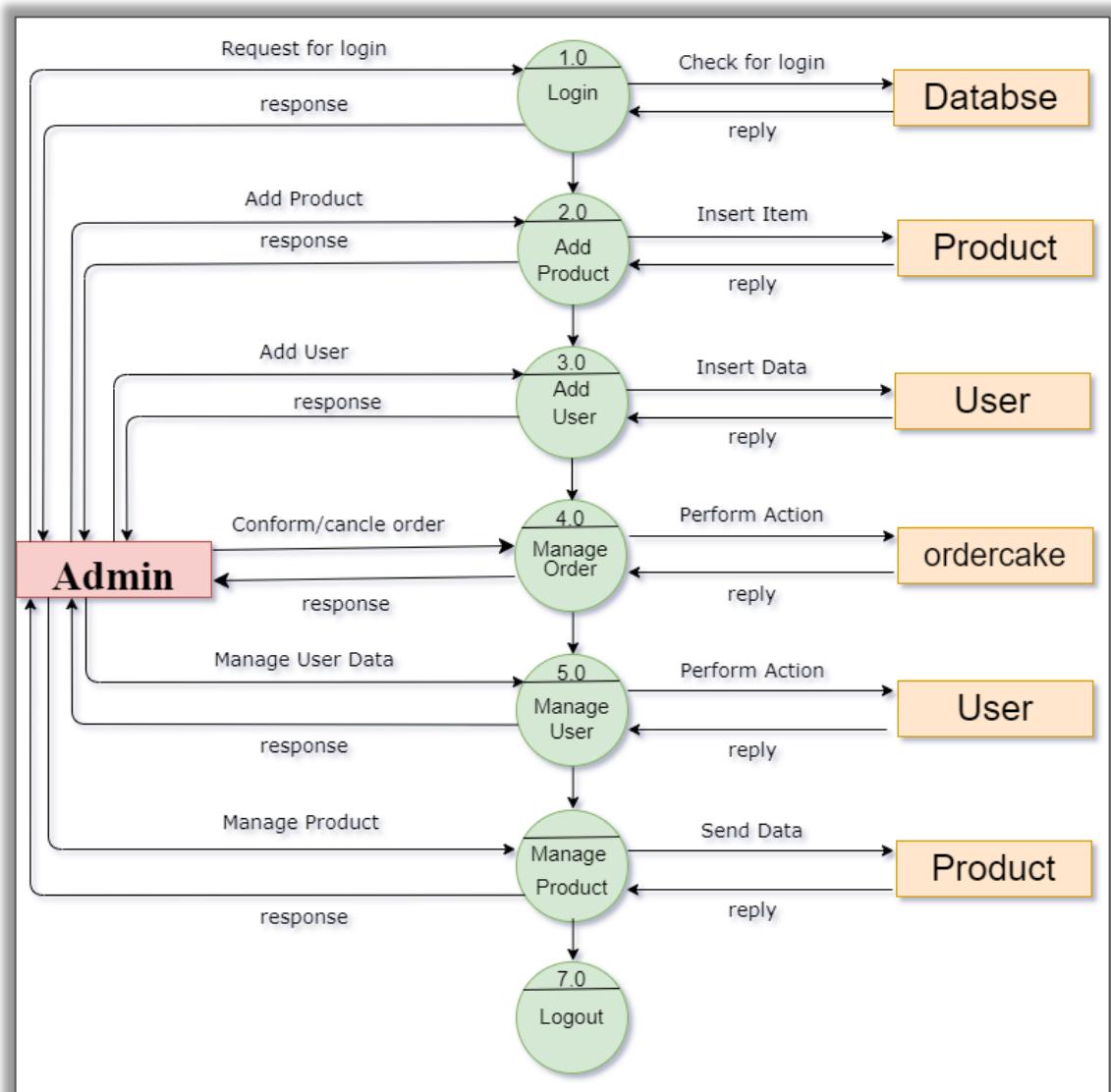
DFD

Context level DFD

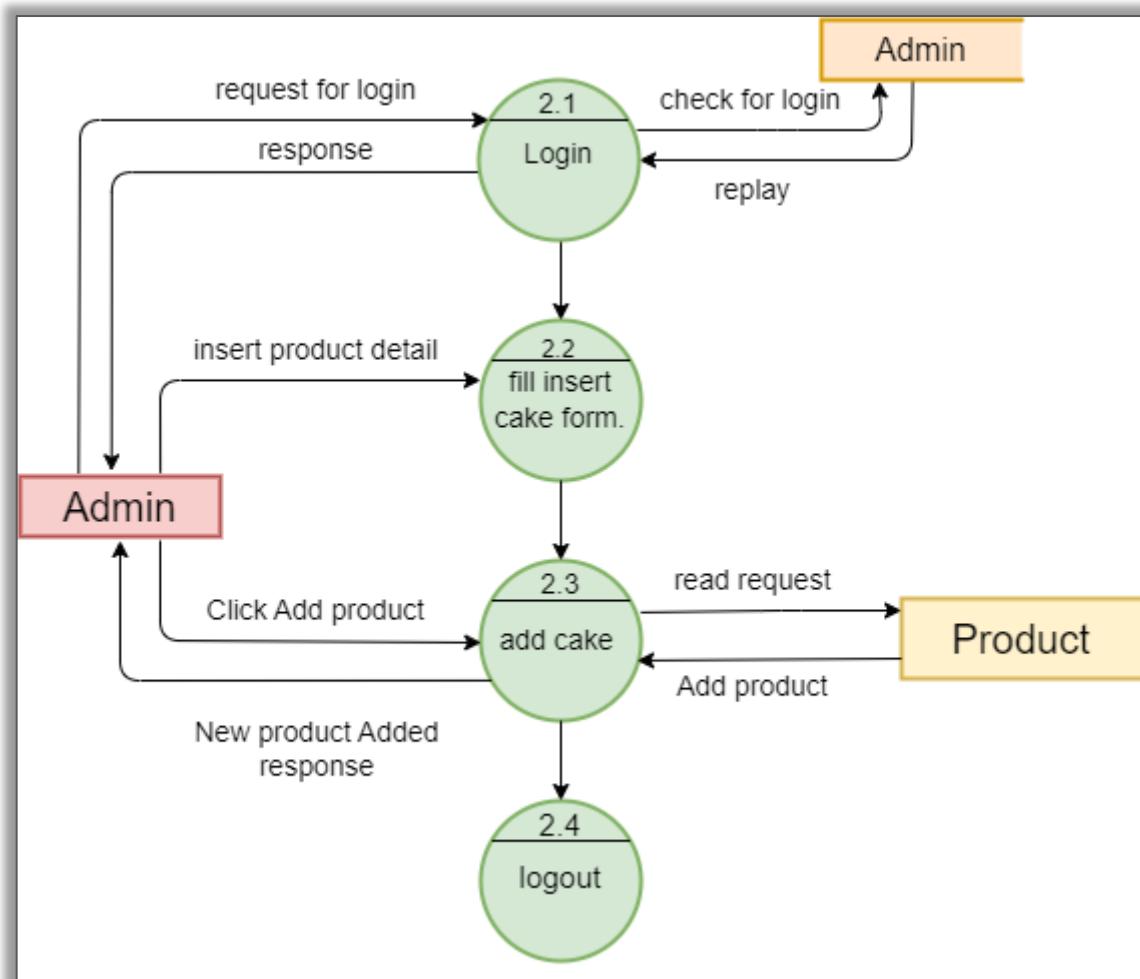


Admin Side

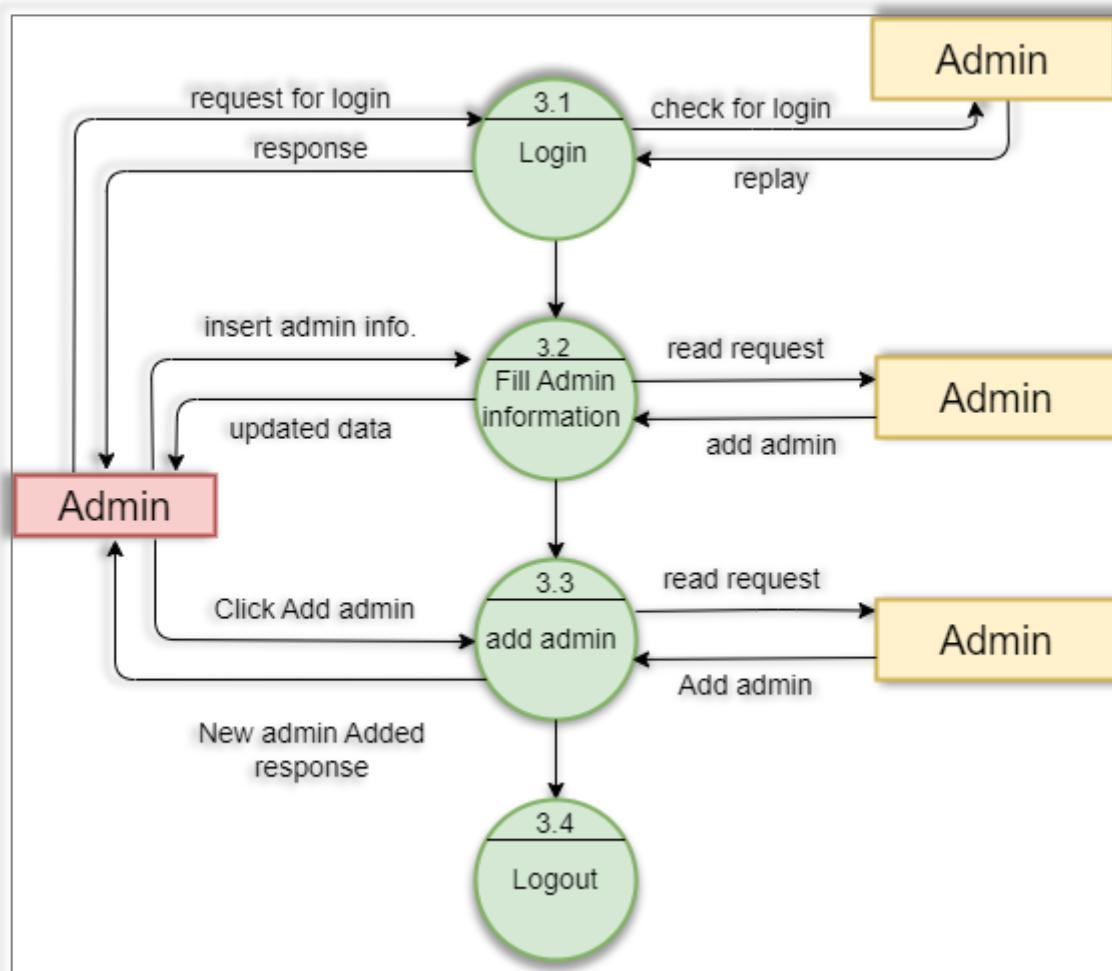
1st Level Admin Side DFD



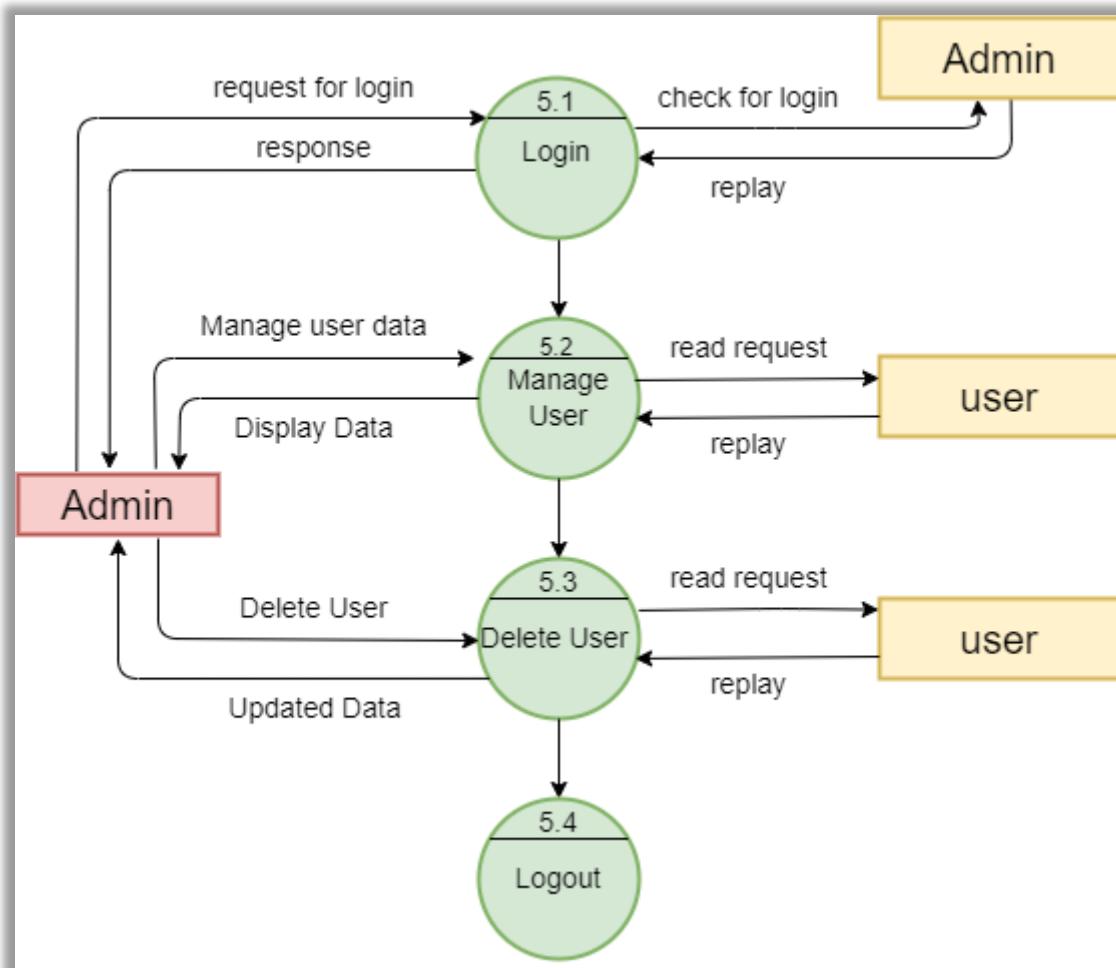
2nd level (2.0 process) Admin side DFD



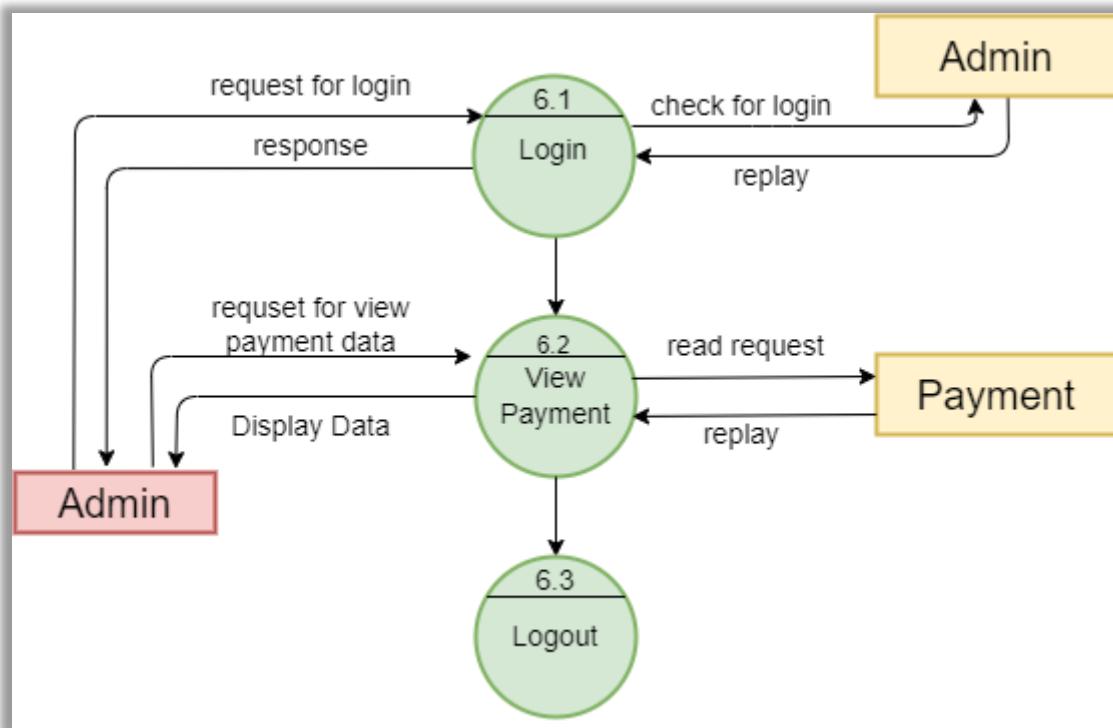
3rd level (3.0 process) Admin side DFD



4th level (5.0 process) Admin side DFD

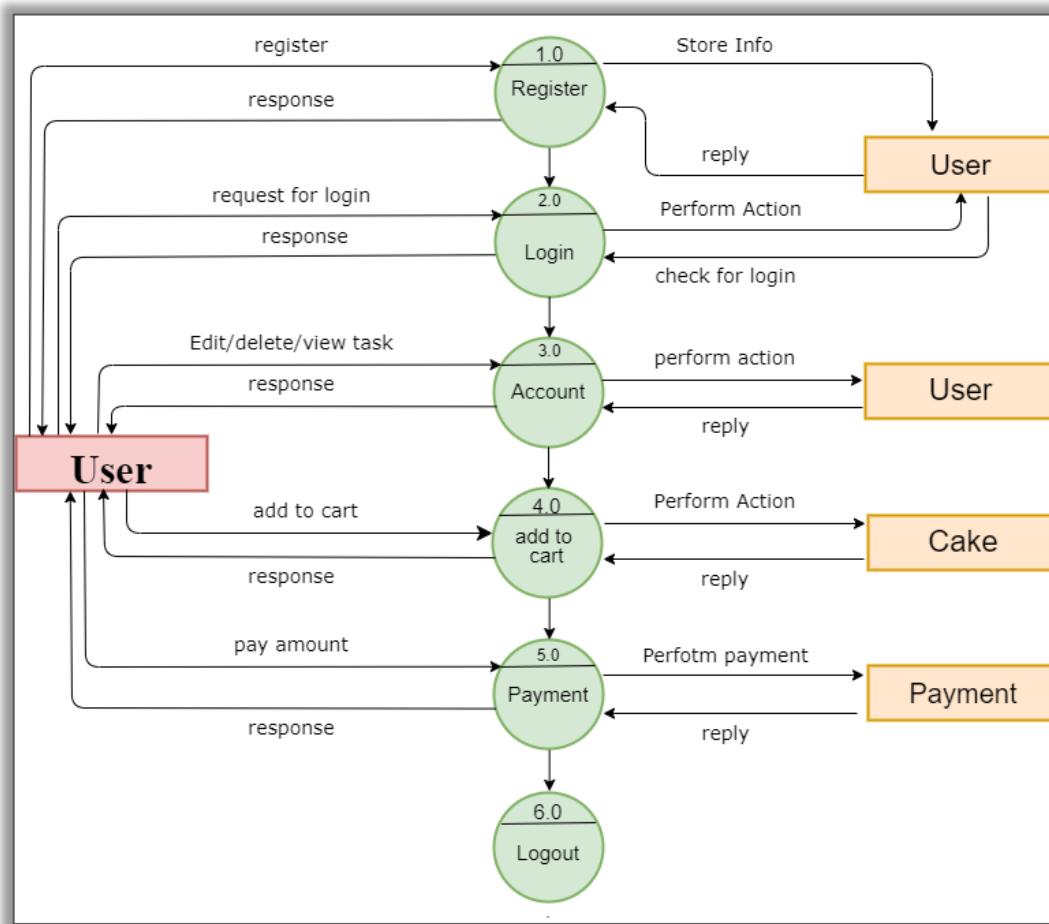


5th level (6.0 process) Admin side DFD

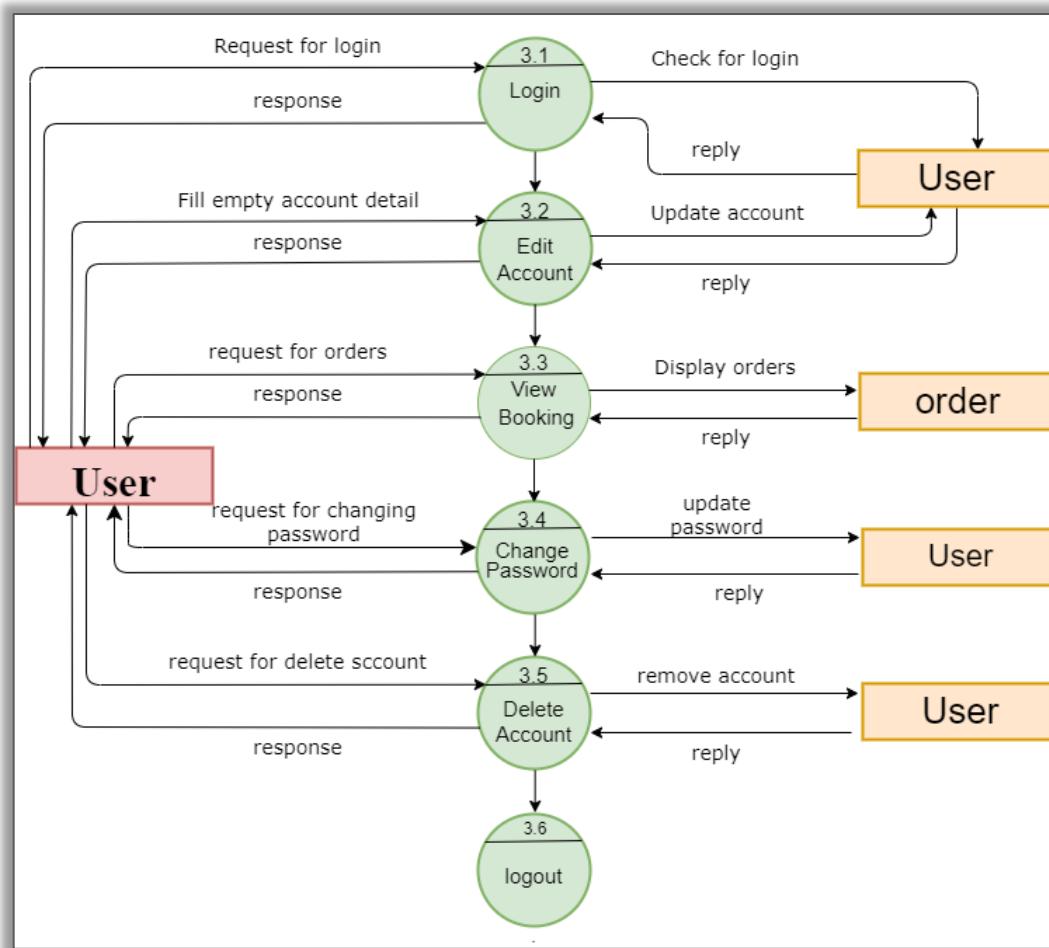


User Side

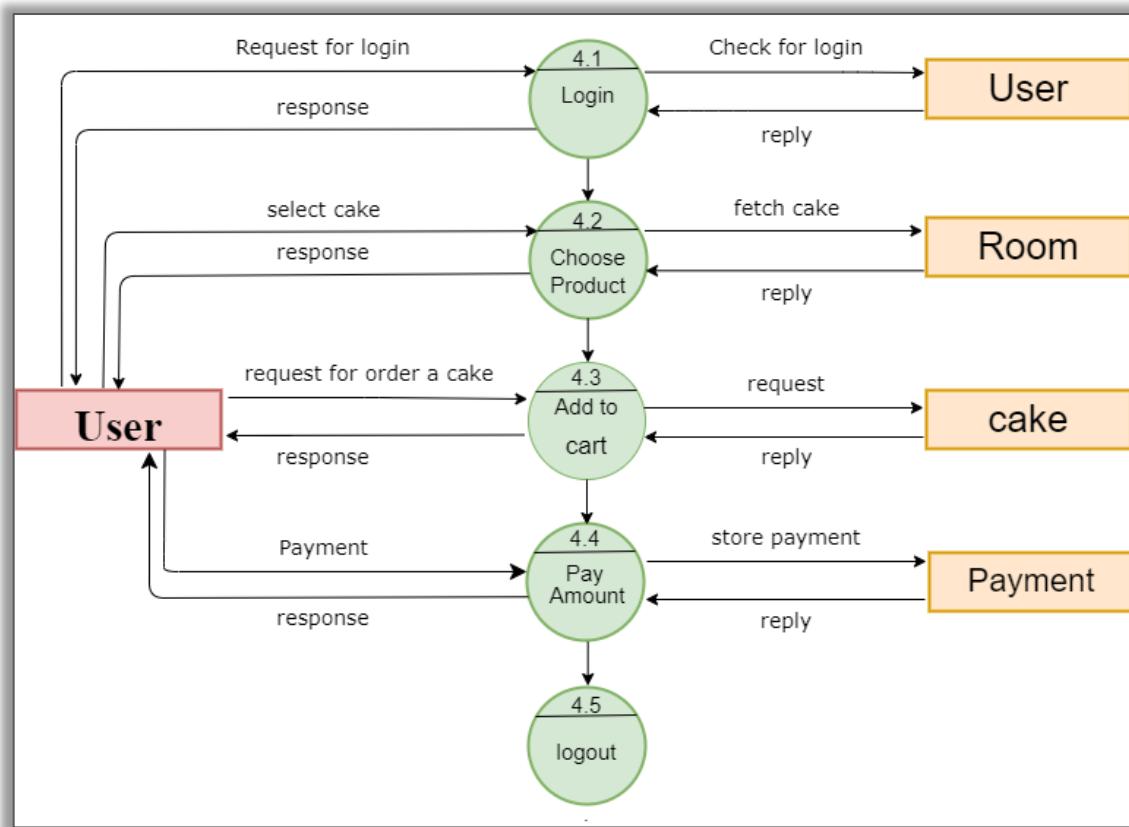
1st level User side DFD



2nd level (3.0 process) User side DFD



3rd level (4.0 process) User side DFD



E-R Diagram

An ER diagram, or Entity-Relationship diagram, is a graphical representation used in database design to describe the relationships between different entities (tables) within a database system. It provides a conceptual view of the database by depicting the logical structure of the data.

In an ER diagram, the main components are:-

1. Entities:

These represent the objects or concepts about which data is stored in the database. For example, "Student," "Course," and "Department" could be entities in a university database. Entities are typically represented by rectangles in the diagram.

2. Attributes:

Each entity has attributes, which are the properties or characteristics that describe it. For instance, the "Student" entity might have attributes such as "StudentID," "Name," "DateOfBirth," and "Email." Attributes are listed inside the entity rectangle.

3. Relationships:

Relationships represent the associations or connections between entities. For example, a "Student" can enroll in multiple "Courses," and a "Course" can have many "Students" enrolled. Relationships are depicted using different types of lines or diamonds in the diagram.

ER diagrams are an essential part of the database design process as they help visualize the data requirements and relationships before the actual database implementation.

They provide a clear understanding of the data structure and aid in identifying potential issues or redundancies in the design. ER diagrams are particularly useful in the context of relational database management systems (RDBMS), where the entities and relationships are later translated into tables and relationships between tables.

➤Uses of entity relationship diagrams:-

1. Database design:

ER diagrams are used to model and design relational databases, in terms of logic and business rules (in a logical data model) and in terms of the specific technology to be implemented (in a physical data model.) In software engineering, an ER diagram is often an initial step in determining requirements for an information systems project.

It's also later used to model a particular database or databases. A relational database has an equivalent relational table and can potentially be expressed that way as needed.

2. Research:

Since so much research focuses on structured data, ER diagrams can play a key role in setting up useful databases to analyse the data.

3. Data modeling:

ER diagrams provide a visual representation of the data model, making it easier to understand and communicate the structure and relationships within the data.

They help in conceptualizing and organizing the data requirements before implementing the actual database.

4. Requirement Analysis:

ER diagrams help identify and clarify the requirements of the system by modeling the entities and relationships that need to be represented in the database.

They facilitate discussions about data modeling and help ensure that the database design meets the needs of the users.

5. Communication and documentation:

ER diagrams act as a common language for database designers, developers, and stakeholders to communicate and understand the data structure.

They provide documentation of the database design, making it easier to maintain and modify the database over time.

6. Database maintenance and evolution:

When changes or extensions are required in the database, ER diagrams provide a clear representation of the existing data structure, making it easier to identify the impact of proposed changes and plan for modifications or additions.

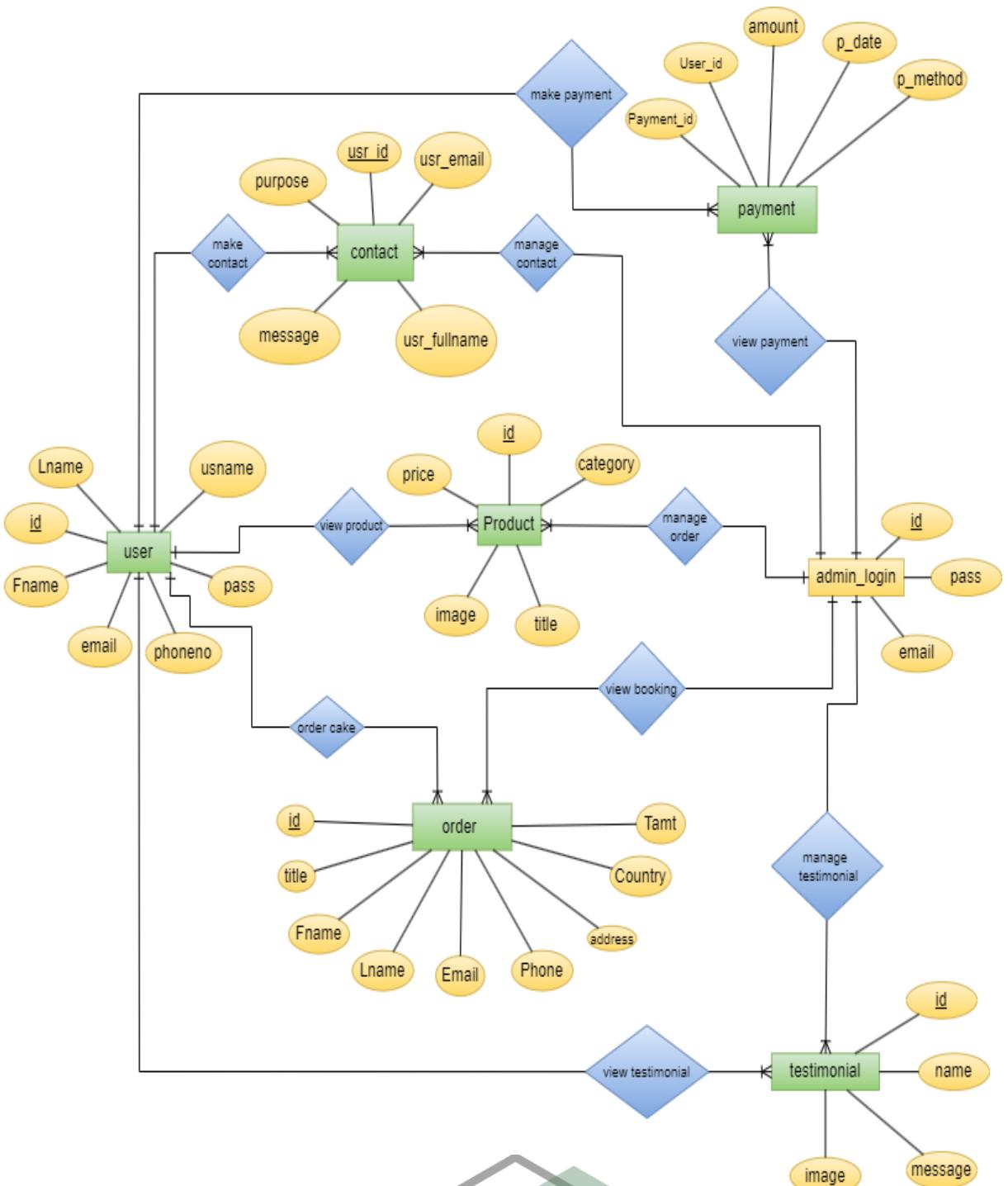
7. Normalization:

ER diagrams aid in the process of database normalization by identifying redundant data and dependencies between entities. This helps optimize the database structure for efficient storage and retrieval of data.

➤ Entity Relationship Diagram Symbols:-

SYMBOL	MEANING
	Entity Type
	Weak Entity Type
	Relationship Type
	Identifying Relationship Type
	Attribute

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Data Dictionary

A **Data dictionary** contains metadata i.e. data about the **database**. The data dictionary is very important as it contains information such as what is in the database, who is allowed to access it, where is the database physically stored etc.

The users of the database normally don't interact with the data dictionary; it is only handled by the database administrators.

A **Data Dictionary** is a collection of names, definitions, and attributes about data elements that are being used or captured in a database, information system, or part of a research project.

It describes the meanings and purposes of data elements within the context of a project, and provides guidance on interpretation, accepted meanings and representation. A Data Dictionary also provides metadata about data elements.

The metadata included in a Data Dictionary can assist in defining the scope and characteristics of data elements, as well the rules for their usage and application.

❖ The data dictionary in general contains information about the following :

- Names of all the database tables and their schemas.
- Details about all the tables in the database, such as their owners, their security constraints, when they were created, etc.
- Physical information about the tables such as where they are stored and how.
- Table constraints such as primary key attributes, foreign key information etc.
- Information about the database views which are visible

1. Admin Login:-

This table is storing the information of admin. it store Email and password of admin which is use for login to the system.

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
a_id	Int	11	Primary key	Admin id, auto generated
Email	Varchar	25	Not null	email of the admin
password	Varchar	25	Not null	password of the admin

2. User Registration Page:-

This Table Is Store to information of Customer like name, Username, email and password.

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
a_id	Int	11	Primary key	Admin id, auto generated
name	Varchar	15	Not null	Name Of User
User_name	Varchar	15	Not null	User Name
email	Varchar	30	Not null	Email address of the User.
password	Varchar	33	Not null	Password of user

3. User Login:-

This table is storing the information of user. it store Email and password of user which is use for login to the system.

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
a_id	Int	11	Primary key	User id, auto generated
User_Email	Varchar	25	Not null	name of the User
User_password	Varchar	25	Not null	password of the User

4. Product Table:-

Product Table store information of all type room and her functionality.

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Id	Int	11	Primary key	Unique identifier for each Product.
Category	Varchar	50	Not null	Type of Product (Birthday,Wedding,Anniversary)
Price	Number	20	Not null	Price of product
Image	Varchar	(10,2)	Not null	URL of product image
Title	Varchar	20	Not null	Title of product

5. Order Cake:-

This table is storing the information of all the user order service.

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Id	Int	10	Primary key	Unique identifier for each reservation, auto genreted
Title	Varchar	5	Not null	User gender ex. Dr.,Mr.
Fname	Text	-	Not null	First Name Of the user
Lname	Text	-	Not null	Last Name Of the user
Email	Varchar	50	Not null	Email Address Of the user
Phone	Text	12	Not Null	Mobile Number of the user
Address	Varchar	50	Not Null	Customer address
Country	Varchar	30	Not null	User Passport Contury
Total_Amt	Decimal	10	Not Null	Total amount of order

6. Payments Table:-

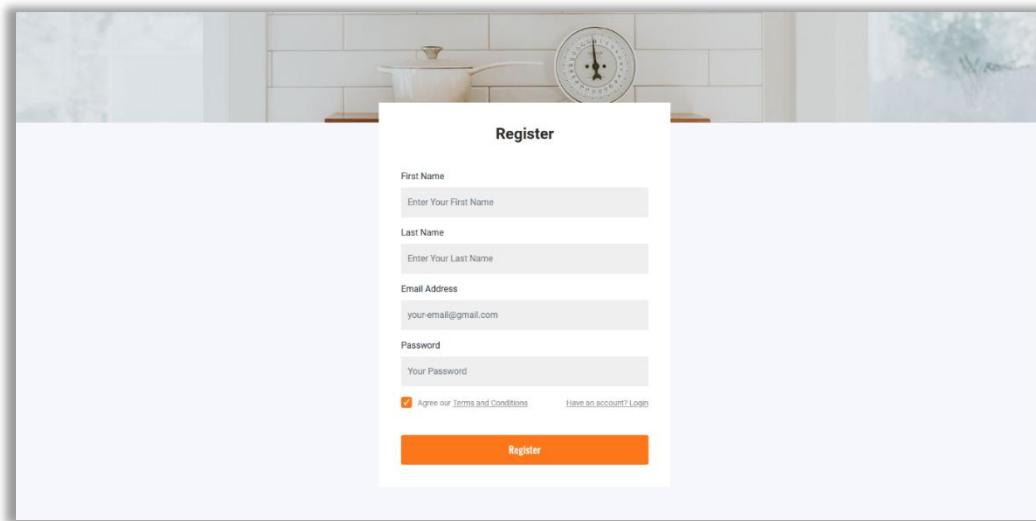
This table is storing the information of all payment of all reservation.

FIELD NAME	DATATYPE	SIZE	CONSTRAINTS	DESCRIPTION
Payment_id	Int	12	Primary key	Unique identifier for each payment, auto_incremen t
User_id	Int	10	Foreign Key	ID of the User making the payment.
Amount	Decimal	(10,2)	Not null	Amount of the payment.
payment_date	Datetime	-	Not null	Date and time when the payment was made.
payment_method	Varchar	50	Not null	Method of payment (credit card, cash, etc.).

Input/ Output Design

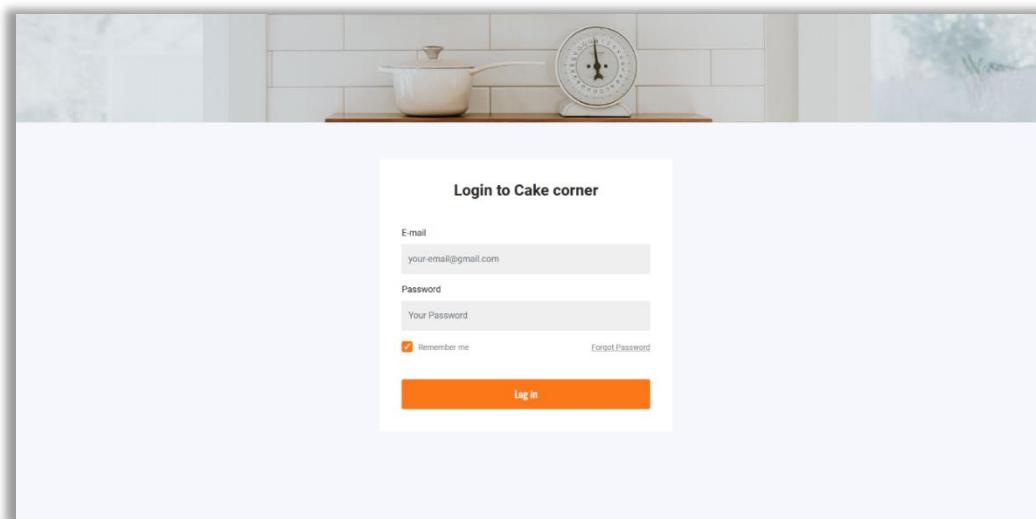
User Side Pages

Register Page :-



This is the register page in which user can register himself / herself as a member of Cake Corner family.

Login Page :-



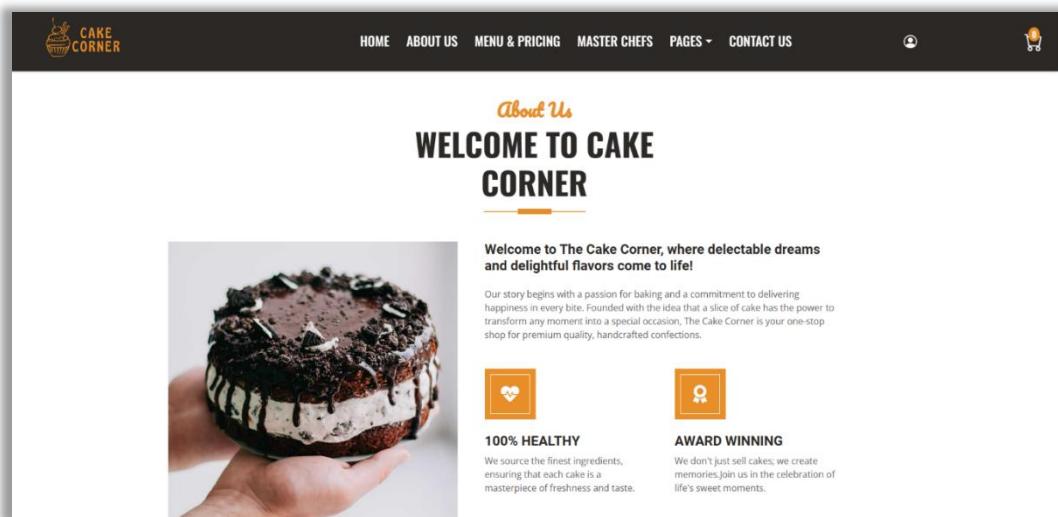
This is the Login page through which registered user can Login to the Cake Corner page.

Home Page :-



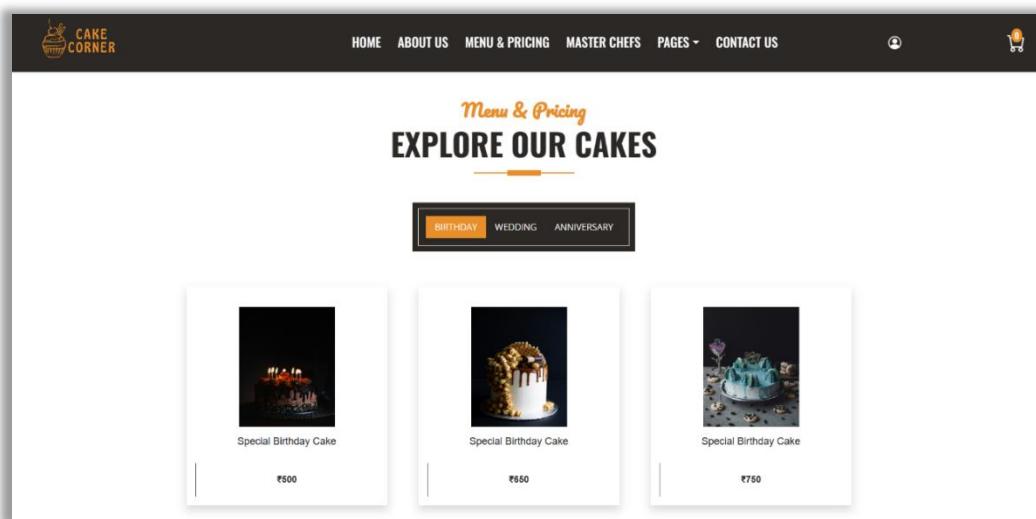
This is the Home page of the Cake Corner Website which describes a brief information about the website using graphics and text.

About Us Page :-



This is the about us page of the Cake Corner website in which you find information.

Menu & Pricing Page :-



This is the Product page. When user can view, buy the product In our website.

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Our Team Page :-

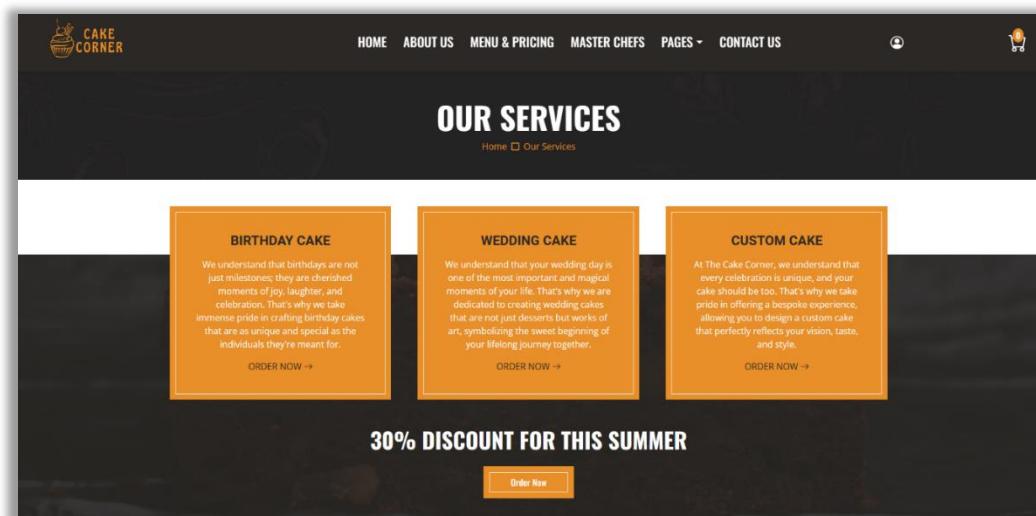


This is Our team page for user's information.

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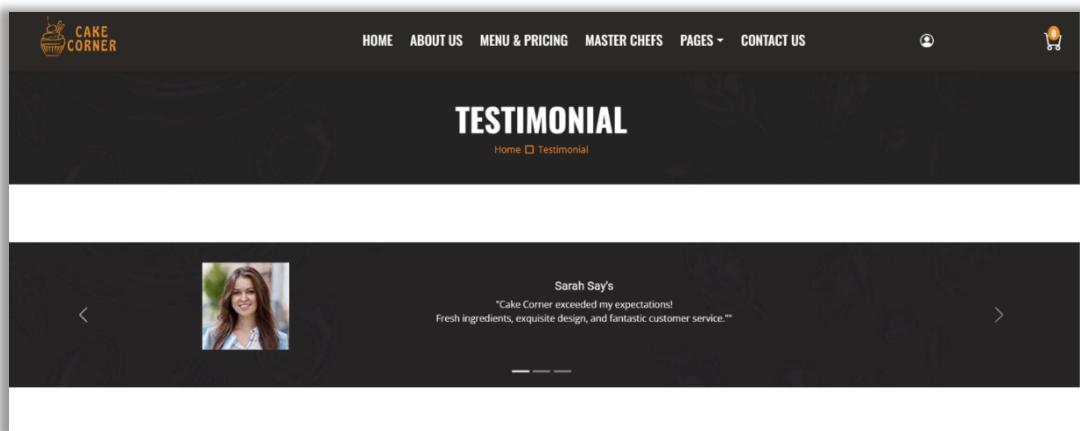
Our Services Page :-



This is the Our Service page for user information

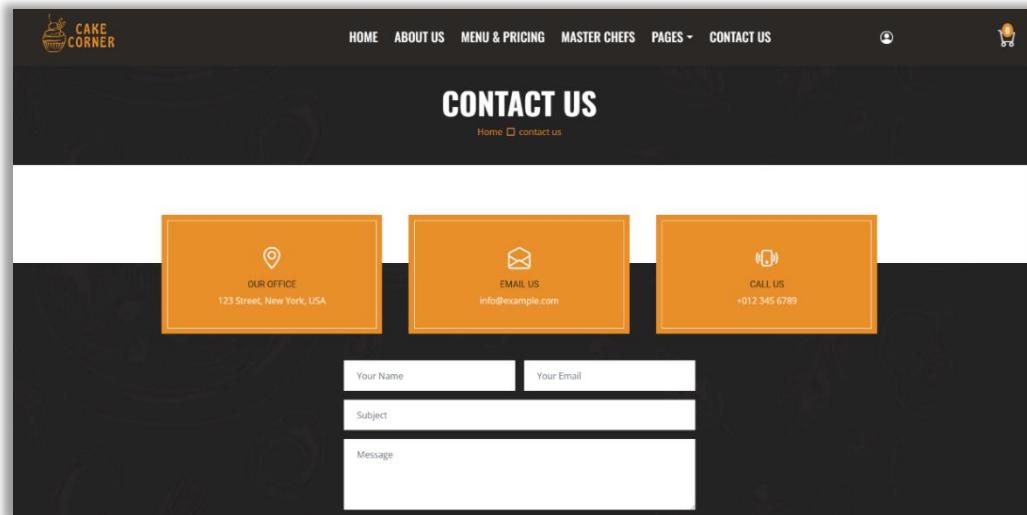
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Testimonial (Review) Page :-



This is the Testimonial page for Cake Corner website.

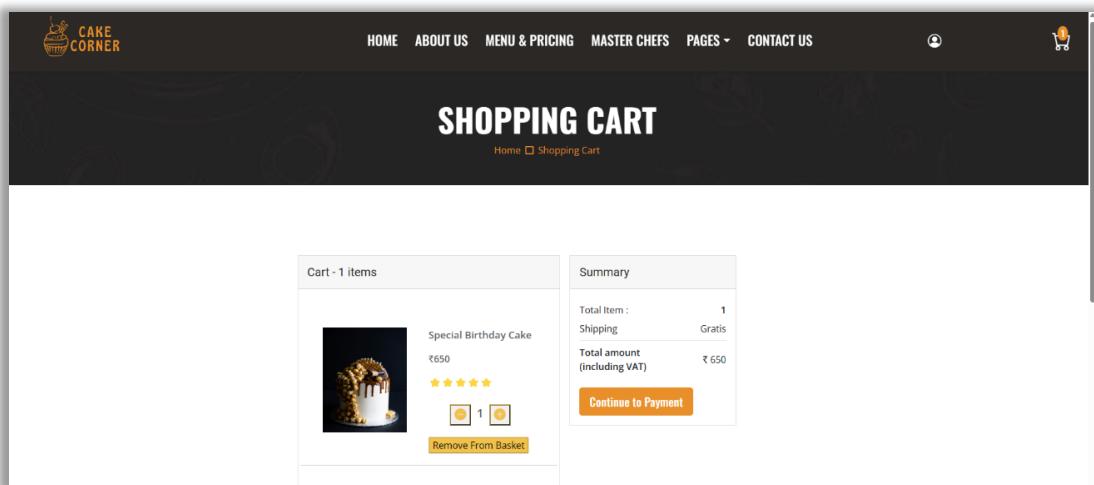
Contact-us Page :-



This is the Contact Us page for user information.

Prepared By:- Sutariya Akshay H. (25260013)
Bhayani Dev J. (25260037)

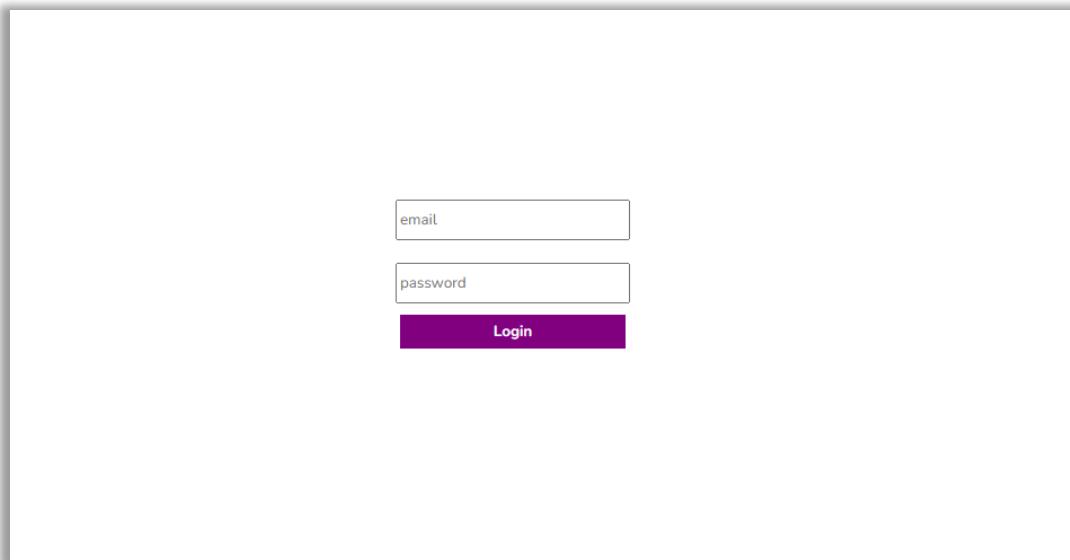
Shopping Cart Page :-



This is the page of shopping cart page. User selected item display here.

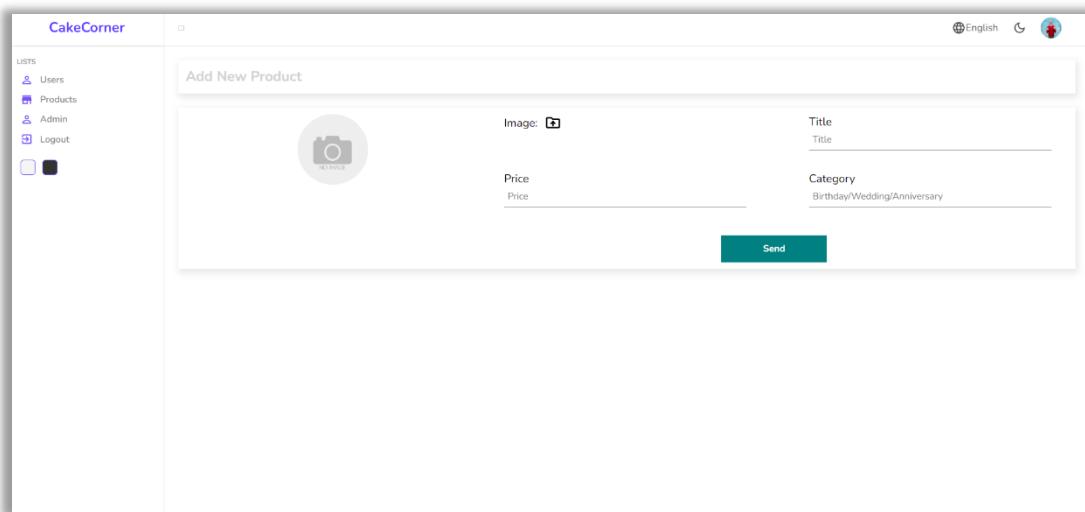
Admin Side Pages.

Admin Login Page :-



This is the login page for Admin through which Admin can use the Admin Panel.

Add Product Page :-



Through this page Admin can easily insert product. In this form admin select image for product, price, tile, select category for product.

View Product Page :-

The screenshot shows a web-based application interface titled "CakeCorner". On the left, there is a sidebar with a "LISTS" section containing links for "Users", "Products", "Admin", and "Logout". The main content area is titled "products" and displays a table with the following data:

ID	Product Name	Price	Category	Action
-Nv6...	Special Birthday Cake	500	birthday	View Delete
-Nv6...	Special Birthday Cake	650	birthday	View Delete
-Nv6...	Special Birthday Cake	750	birthday	View Delete
-Nv6...	Special Birthday Cake	550	birthday	View Delete
-Nv6...	Special Birthday Cake	1000	birthday	View Delete
-Nv6...	Special Wedding Cake	1500	wedding	View Delete
-Nv6...	Special Wedding Cake	2000	wedding	View Delete
-Nv6...	Special Wedding Cake	1700	wedding	View Delete
-Nv6...	Special Wedding Cake	2000	wedding	View Delete

At the bottom right of the table, there is a page navigation indicator showing "1-9 of 18" with arrows for navigating through the pages.

Through this page Admin can view the existing product and also edit or delete the product.

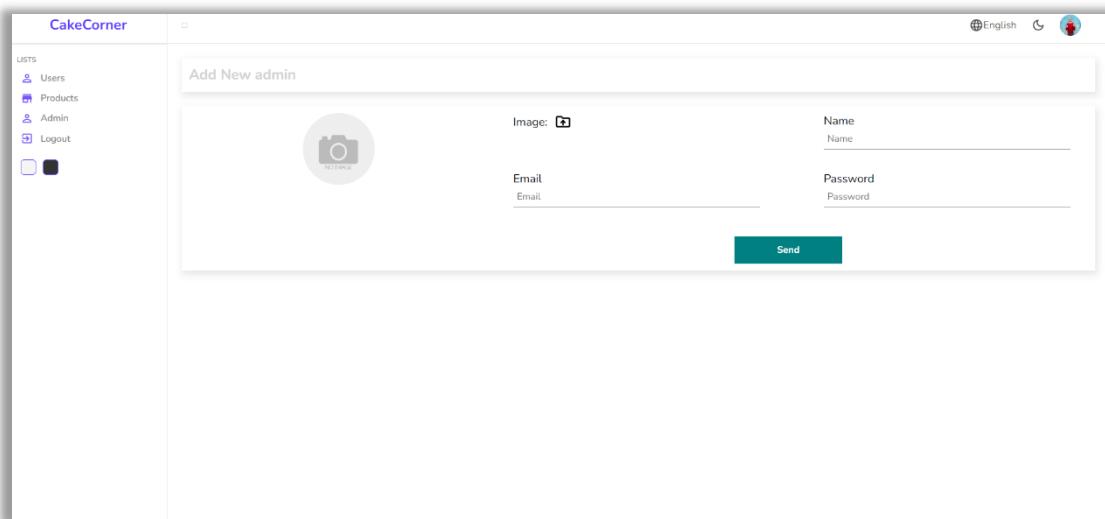
Admin Accounts Page :-

The screenshot shows a web-based application interface titled "Add New Admin". On the left, there is a sidebar with a "LISTS" section containing links for "Users", "Products", "Admin", and "Logout". The main content area has a header "Add New Admin" with a "Add New" button. Below it is a table with one row, showing a single admin entry. The columns are labeled "ID", "Admin Name", "Email", and "Action". The data row contains "-NvA..." under ID, "Akshay" under Admin Name, "patelakkik244@gm..." under Email, and "View" and "Delete" buttons under Action. At the bottom right of the table, it says "1-1 of 1".

ID	Admin Name	Email	Action
-NvA...	Akshay	patelakkik244@gm...	View Delete

Through this page Admin can view the admin detail.
Admin can edit or delete the admin.

Add Admin Page :-



Through this page Admin can insert or delete new admin.

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Payment Detail Page :-

The screenshot shows the Stripe Payments dashboard for the "Cake Corner" account. The top navigation bar includes links for Home, Payments (which is selected), Balances, Customers, Billing, More, Developers, Test mode, and a Create payment button. The main section is titled "Payments" with tabs for All payments, Disputes, and All transactions. A summary box shows the count of payments: All (2), Succeeded (2), Refunded (0), Uncaptured (0), and Failed (0). Below this is a search bar and filter options for Date & Time, Amount, Currency, Status (set to Succeeded), Payment method, and More filters. A "Clear filters" button is also present. The main table lists two payment records:

Amount	Payment method	Description	Customer	Date
₹2,500.00 INR	Succeeded ✓	pi_3P3y3ESR7kUmID96G1pS13Bwq	akshaysutariya8@gmail.com	10 Apr, 10:06 am
₹1,000.00 INR	Succeeded ✓	pi_3P3xXr5B7kUmID96G0iJpDZY	patelukki244@gmail.com	10 Apr, 4:14 am

There are two results listed.

Through this page Admin can view the Payments details.

Customer Detail Page :-

The screenshot shows the Stripe Customer dashboard for the 'Cake Corner' account. The left sidebar includes links for Home, Payments, Balances, Customers (which is selected and highlighted in blue), Billing, and More. The main area is titled 'Customers' and displays one result. The table has columns for Name, Email, Default payment method, and Created. The single row shows 'test' as the name, 'Guest' as the email, a placeholder card icon for the default payment method, and '10-Apr, 4:14 am' as the creation date.

Name	Email	Default payment method	Created
test	Guest	akshaysutariya8@gmail.com	**** 0008 10-Apr, 4:14 am

Through this page Admin can view the Customer details.

Testing & Implementation



Testing Approach

Introduction

- Testing is a set of activities which are decided in advance i.e before the start of development and organized systematically.
- In the literature of software engineering various testing strategies to implement the testing are defined.
- All the strategies give a testing template.
- Software testing also helps to identify errors, gaps or missing requirements in contrary to the actual requirements. It can be either done manually or using automated tools. Some prefer saying Software testing as a White box and Black Box Testing.
- In most cases, the following professionals are involved in testing a system within their respective capacities –
 - Software Tester
 - Software Developer
 - Project Lead/Manager
 - End User

Test Plan

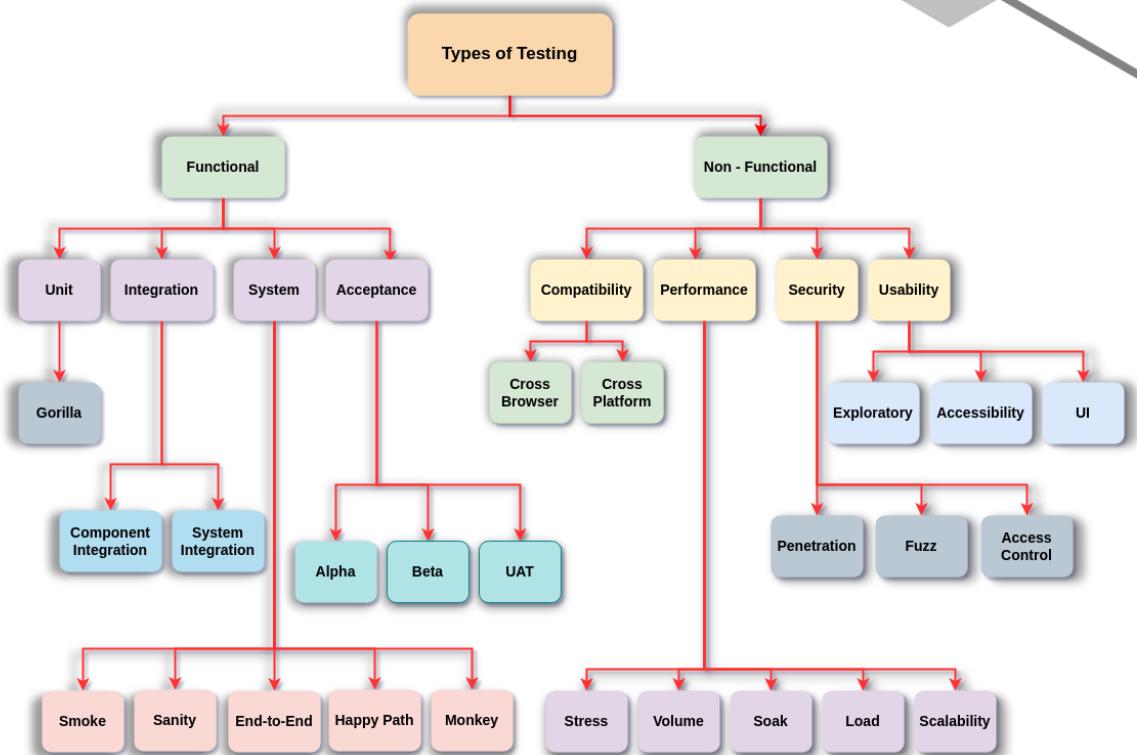
- A test plan is a detailed document that describes the test strategy, objectives, schedule, estimation and deliverables and resources required for testing.
- Test Plan helps us determine the effort needed to validate the quality of the application under test. The test plan serves as a blueprint to conduct software testing activities as a defined process which is minutely monitored and controlled by the test manager

How to Write Test Plan?



Software Testing Strategies

- A comprehensive software testing strategy for an online hotel management system would involve several key components.
- First, it's essential to conduct functional testing to ensure that all features, such as room booking, reservation management, and payment processing, work as expected. This includes testing various scenarios, such as different types of bookings, modifications, and cancellations.
- Next, performance testing should be performed to evaluate the system's responsiveness and scalability under different loads, ensuring it can handle peak usage times without slowdowns or crashes.
- Security testing is also crucial to identify and address any vulnerabilities that could compromise sensitive data, such as customer payment information. Additionally, usability testing can help ensure the system is intuitive and easy to navigate for both hotel staff and guests.



Level Of Testing

1. Unit Testing:-

- Tests a single class or a set of closely coupled classes.
 - These unit tests can either be run using the actual objects that the unit interacts with or by employing the use of test doubles or mocks.



- In Unit testing, the smallest piece of testable software is tested in the application to determine whether it behaves as expected or not.
- Tests are typically run at the class level or around a small group of related classes. In unit testing, an important distinction is seen based on whether or not the unit under test is isolated from its collaborators.

2. Integration Testing:-

- Integration tests are used to test communication between services. These tests are designed to test basic success and error paths over a network boundary.
- Different components interact with each other for their functional dependency, while communicating with each other integration test verifies the communication paths between the components and detect the interface defects.



- Here, all test modules are integrated together and tested as a subsystem. It checks that the communication paths between the subsystem work correctly while interacting with its peers. In micro service architecture, they are typically used to verify interactions between layers of integration code and the external components to which they are integrating.

3. System Testing:-

- The next level of testing is system testing. As the name implies, all the components of the software are tested as a whole in order to ensure that the overall product meets the requirements specified
- System testing is a very important step as the software is almost ready to ship and it can be tested in an environment which is very close to that which the user will experience once it is deployed.

4. Acceptance Testing:-

- Finally, acceptance testing is the level in the software testing process where a product is given the green light or not. The aim of this type of testing is to evaluate whether the system complies with the end-user requirements and if it is ready for deployment.



- The scope of acceptance testing ranges from simply finding spelling mistakes and cosmetic errors, to uncovering bugs that could cause a major error in the application.

Software Testing Method:-

1. Black-Box Testing :-

- The technique of testing without having any knowledge of the interior workings of the application is called black-box testing.
- The tester is oblivious to the system architecture and does not have access to the source code.

- Typically, while performing a black-box test, a tester will interact with the system's user interface by providing inputs and examining outputs without knowing how and where the inputs are worked upon.

➤ The following table lists the advantages and disadvantages of black-box testing.

Advantages	Disadvantages
Well suited and efficient for large code segments.	Limited coverage, since only a selected number of test scenarios is actually performed.
Code access is not required.	Inefficient testing, due to the fact that the tester only has limited knowledge about an application.
Clearly separates user's perspective from the developer's perspective through visibly defined roles.	Blind coverage, since the tester cannot target specific code segments or error-prone areas.
Large numbers of moderately skilled testers can test the application with no knowledge of implementation, programming language, or operating systems.	The test cases are difficult to design.

2. White-box Testing –

- White-box testing is detailed investigation of internal logic and structure of the code.
- White-box testing is also called glass testing or open-box testing. In order to perform white-box testing on an application, a tester needs to know the internal workings of the code.
- The tester needs to have a look inside the source code and find out which unit/chunk of the code is behaving inappropriately.

➤ **The following table lists the advantages and disadvantages of white-box testing.**

Advantages	Disadvantages
As the tester has knowledge of the source code, it becomes very easy to find out which type of data can help in testing the application effectively.	Due to the fact that a skilled tester is needed to perform white-box testing, the costs are increased.
It helps in optimizing the code.	Sometimes it is impossible to look into every nook and corner to find out hidden errors that may create problems, as many paths will go untested. An application.

Extra lines of code can be removed which can bring in hidden defects.

It is difficult to maintain whitebox testing, as it requires specialized tools like code analyzers and debugging tools.

3. Grey-Box Testing –

- Grey-box testing is a technique to test the application with having a limited knowledge of the internal workings of an application.
- In software testing, the phrase the more you know, the better carries a lot of weight while testing an application.
- Mastering the domain of a system always gives the tester an edge over someone with limited domain knowledge.
- Unlike black-box testing, where the tester only tests the application's user interface; in grey-box testing, the tester has access to design documents and the database. Having this knowledge, a tester can prepare better test data and test scenarios while making a test plan.

- The following table lists the advantages and disadvantages of grey-box testing.

Advantages	Disadvantages
Offers combined benefits of black-box and white-box testing wherever possible.	Since the access to source code is not available, the ability to go over the code and test coverage is limited.
Grey box testers don't rely on the source code; instead they rely on interface definition and functional specifications.	The tests can be redundant if the software designer has already run a test case.
Based on the limited information available, a grey-box tester can design excellent tests scenarios especially around communication protocols and data type handling.	Testing every possible input stream is unrealistic because it would take an unreasonable amount of time; therefore, many program paths will go untested.

Test Case

❖ Test Case For Sign-in Page :

Test Case No.	1
Name	Successful Sign-In
Description	Verify that a user can sign in with valid credentials.
Input Data	1.Enter valid email and password. 2.Click on the “Sign-In” button.
Expected Output	User should be redirected to the main screen.
Actual Output	System allowed user verification.

Test Case No.	2
Name	Empty Email Field
Description	Verify that an error message is displayed when the email field is left empty.
Input Data	1.Leave the email field empty. 2.Enter valid password. 3.Click on the “Sign-In” button.
Expected Output	Error message should be displayed prompting to enter a valid email address.
Actual Output	Please Enter Valid E-mail verification.

Test Case No.	3
Name	Empty Password Field
Description	Verify that an error message is displayed when the password field is left empty.
Input Data	1.Enter valid email. 2.Leave the password field empty. 3. Click on the “Sign-In” button.
Expected Output	Error message should be displayed prompting to enter a password.
Actual Output	Please Enter Valid password verification.

❖ Test Case For Adding Cake To Cart:

Test Case No.	1
Name	Verify that users can add cakes to their cart
Description	Ensure that users can successfully add cakes to their shopping cart.
Input Data	1. Navigate to the product page of a cake. 2. Click on the "Add to Cart" button. 3. View the shopping cart.
Expected Output	The selected cake is added to the shopping cart.
Actual Output	Please select the item from product page.

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Test Case No.	2
Name	Verify that users can update cake quantities
Description	Ensure that users can update the quantity of cakes in their shopping cart.
Input Data	<ol style="list-style-type: none">1. Add a cake to the shopping cart.2. Navigate to the shopping cart page.3. Change the quantity of the cake.4. Update the cart.
Expected Output	The quantity of the cake in the cart is updated.
Actual Output	Please select the more item to update the quantities from cart page.

Test Case No.	3
Name	Verify that users can remove cakes from cart
Description	Ensure that users can remove cakes from their shopping cart.
Input Data	<ol style="list-style-type: none">1. Add a cake to the shopping cart.2. Navigate to the shopping cart page.3. Find the option to remove the cake.4. Click on the remove option.
Expected Output	The selected cake is removed from the shopping cart.
Actual Output	Please remove the item to update the quantities from cart page.

❖ Test Case For Checkout Process:

Test Case No.	1
Name	Verify that users can proceed to checkout from the cart
Description	Ensure that users can navigate from the shopping cart to the checkout page to initiate the payment process.
Input Data	1. Add cakes to the shopping cart. 2. Click on the "Proceed to Checkout" button.
Expected Output	Users are redirected to the checkout page.
Actual Output	Please verify checkout process page.

Test Case No.	2
Name	Verify that users can enter shipping and billing information
Description	Ensure that users can provide necessary shipping and billing details during the checkout process.
Input Data	1. Navigate to the checkout page. 2. Enter shipping and billing information in the respective fields.
Expected Output	Users successfully enter their shipping and billing information.
Actual Output	Please verify shipping and billing information.

Test Case No.	3
Name	Verify that users can choose a payment method
Description	Ensure that users can select a preferred payment method (e.g., credit card, PayPal) to complete the transaction.
Input Data	1. Proceed to checkout. 2. Select a payment method (credit card, PayPal, etc.) from the available options.
Expected Output	Users are able to choose their preferred payment method.
Actual Output	Please select.

Implementation Approaches

Front End Development Tools

1. HTML:-

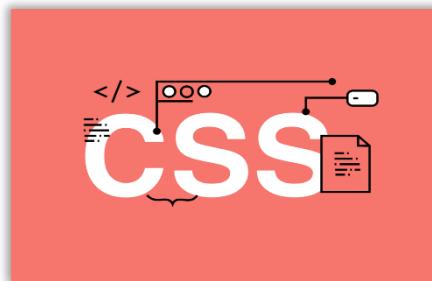
- HTML is the standard Mark-up language for creating Web pages.
- HTML stands for Hyper Text Mark-up Language.
- HTML describes the structure of a Web page.
- HTML consists of a series of elements.



- HTML elements tell the browser how to display the content. HTML elements are represented by tags.
- HTML tags label pieces of content such as "heading", "paragraph", "table", and so on.
- Browsers do not display the HTML tags, but use them to render the content of the page

2. CSS:-

- CSS stands for Cascading Style Sheets.
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media.



- CSS saves a lot of work. It can control the layout of multiple web pages all at once.
- External style sheets are stored in CSS files.

❖ Why CSS:

- CSS saves time
- Easy Maintenance
- Search Engines
- Superior styles to HTML
- Offline Browsing

3. Bootstrap:-

- Bootstrap is a free front-end framework for faster and easier web development.



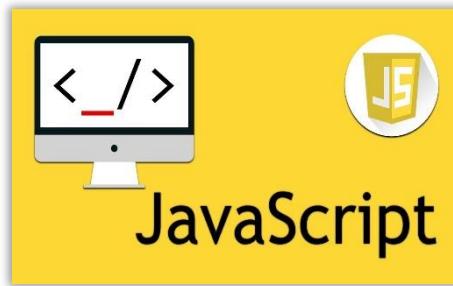
- Bootstrap includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins.
- Bootstrap also gives you the ability to easily create responsive designs.

❖ Why Bootstrap:

- Faster and Easier Web-Development.
- It creates Platform-independent web-pages.
- It creates Responsive Web-pages.
- It designed to be responsive to mobile devices too.

4. Java Script:-

- JavaScript is a lightweight, interpreted programming language. It is designed for creating network-centric applications.



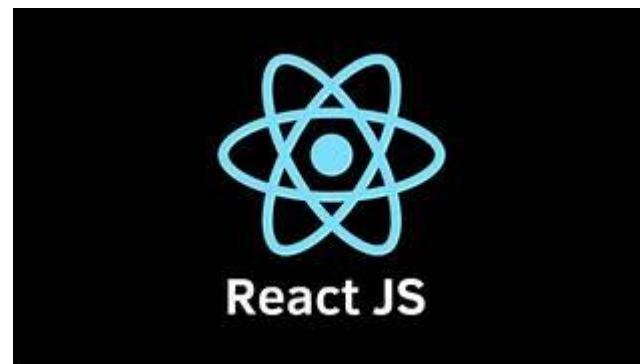
- It is complimentary to and integrated with JavaScript is very easy to implement because it is integrated with HTML. It is open and cross-platform.

❖ Features of JavaScript:

- Light Weight Scripting language
- Dynamic Typing
- Object-oriented programming support
- Functional Style
- Platform Independent
- Interpreted Language
- Async Processing
- Client-Side Validation

5. React js:-

- React is a JavaScript library for building user interfaces (UIs) on the web. React is a declarative, component based library that allows developers to build reusable UI components and It follows the Virtual DOM (Document Object Model) approach, which optimizes rendering performance by minimizing DOM updates.
- React is fast and works well with other tools and libraries.



Features of React js:

1. Component-Based Architecture
2. Virtual DOM
3. JSX Syntax
4. Unidirectional Data Flow
5. State Management
6. React Hooks
7. Rich Ecosystem and Libraries
8. Performance Optimization

6. Visual Studio Code Editor:-

- What is Visual Studio Code?**

- Visual Studio Code is a free source-code editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git.
- Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.



- Visual Studio Code is a source code editor that can be used with a variety of programming languages, including Java, JavaScript, Go, Node.js, Python and C++.
- It is based on the Electron framework, which is used to develop Node.js Web applications that run on the Blink layout engine.

Backend Development Tools:

1. Firebase:

- Firebase is a comprehensive, scalable, and serverless app development platform provided by Google.
- It offers a robust suite of tools and services that streamline the process of building, deploying, and maintaining applications across multiple platforms.
- Firebase provides a realtime NoSQL database, secure authentication, static hosting, cloud functions, cloud messaging, crash reporting, remote configuration, and performance monitoring capabilities.



- With its seamless integration, easy-to-use SDKs, and powerful features, Firebase empowers developers to focus on creating innovative applications while offloading complex infrastructure management tasks.

- It serves as a one-stop solution for developers, enabling them to build high-quality, real-time, and scalable applications efficiently.

Features of Firebase:

- Realtime Database
- Firebase Hosting
- Faster
- Open Source
- Platform Independent
- Cloud Storage

Conclusion



Conclusion

Good Point

- **Security**
- **Performance**
- **Extensible**
- **Easy to Understand**
- **User Friendly**
- **Responsive**

Weak Point

- **High Security**
- **Limited Category**

Problem

- **During the development of project, it is inevitable for me to meet some difficulties such as:**
 - Not enough time.
 - Learning new framework.
 - Learning Advance React & Firebase.
 - Working with attractive designing which has the concept of some marketing strategies.

Perspective

- ✓ Due to the time limitation, I have implemented only the main functionalities for the development of the Website. These functionalities are not sufficient to develop the project as I have very big plan for my website Cake Corner. Consequently, I will
 - Improve application performance.
 - Finish the remaining functionality.
 - Working on the project was good experience. I understand the importance of Planning and Designing as a part of software development. But it's very difficult to complete the program for single person.
 - System provide major advantages such as speed and accuracy of operation, Time Efficiency, Cost Efficiency, Automatic data validation, Data security and reliability, Easy performance check, Dynamic and User Friendly. And ensures access to complete and critical information, instantly.



Advantages

General

- Reduced Overhead Costs:**

Operating solely online can significantly reduce overhead costs compared to maintaining a physical store. This includes savings on rent, utilities, and staffing expenses, allowing The Cake Corner to allocate resources more efficiently.

- Marketing Opportunities:**

Through various digital marketing channels such as social media, email campaigns, and search engine optimization (SEO), The Cake Corner can effectively promote its products, engage with customers, and drive traffic to its website.

- Customer Reviews and Feedback:**

An online platform facilitates collecting and showcasing customer reviews and feedback, which can build trust, credibility, and loyalty for The Cake Corner. Positive reviews can also attract new customers and drive repeat business.

 **Admin**

- **Real-time Analytics:**

The admin dashboard in Firebase allows Cake Corner to access real-time analytics and insights into customer behavior, sales trends, and inventory management. This data empowers Cake Corner to make informed decisions quickly, such as adjusting marketing strategies, managing stock levels, and optimizing the website for better user experience.

- **User Management:**

Firebase provides robust user management features, allowing Cake Corner to easily manage user accounts, permissions, and access control. The admin can efficiently handle tasks such as creating accounts for staff members, assigning roles and permissions, and monitoring user activities to ensure security and compliance.

 **User/Customer**

- **Easy Ordering Process:**

The Cake Corner provides a user-friendly ordering process, ensuring a seamless experience from start to finish. With intuitive navigation and clear instructions, users can effortlessly place their orders without any hassle or confusion.

- Delivery Options:**

Users of The Cake Corner can enjoy flexible delivery options to suit their schedule. Whether they need same-day delivery for last-minute celebrations or prefer to schedule delivery in advance, the website offers convenient delivery services to accommodate varying needs and preferences.

- Quality Assurance:**

The Cake Corner is committed to delivering high-quality cakes made with fresh ingredients and expert craftsmanship. Users can trust that each cake they order will be delicious, visually appealing, and made with care, ensuring a delightful experience every time.

- Customer Support:**

The Cake Corner provides excellent customer support to assist users throughout their purchasing journey. Whether users have questions about product offerings, need assistance with ordering, or require help with any issues, they can rely on responsive and helpful support from the website's team.

Limitation of the System

- One limitation of "The Cake Corner" online cake selling website could be its geographical reach.
- While it may have a strong local customer base, reaching customers beyond a certain radius might prove challenging, particularly if shipping costs or delivery times become prohibitive.
- Additionally, the website's ability to compete with larger, established online cake retailers could be limited by marketing budget constraints or brand recognition. Ensuring a seamless user experience, especially on mobile devices, and maintaining a diverse and appealing product range could also be ongoing challenges for sustaining customer interest and loyalty.

Future Scope of System

- In the future, The Cake Corner, an online cake selling website, could explore various avenues to expand and enhance its offerings. With the growing trend of online shopping and the increasing demand for personalized and artisanal products, The Cake Corner could capitalize on these opportunities to further establish its brand and reach a wider audience.
- Embracing emerging technologies such as augmented reality (AR) or virtual reality (VR) could allow customers to visualize and customize their cake designs in a more immersive and interactive manner, enhancing the overall shopping experience.
- Additionally, leveraging data analytics and machine learning algorithms could help The Cake Corner better understand customer preferences and behavior, enabling targeted marketing campaigns and personalized recommendations.
- Furthermore, expanding into new markets or diversifying product offerings beyond cakes, such as pastries, cupcakes, or specialty desserts, could unlock new revenue streams and cater to a broader customer base.
- By continually innovating and adapting to evolving consumer trends and technological advancements, The Cake Corner can position itself as a leader in the online cake industry and ensure sustained growth and success in the future.

Web-Links

- <http://www.w3schools.com/>
- <https://stackoverflow.com/>
- <https://getbootstrap.com/>
- <https://fontawesome.com/>
- <https://codepen.io/>
- <https://learncodeonline.in/>
- <https://www.tutorialspoint.com/>
- <https://www.htmlvalidator.com/>
- <https://www.tutorialrepublic.com/>
- <https://htmlcolorcodes.com/>
- <https://www.w3resource.com/>
- <https://teamtreehouse.com/>
- <https://youtube.com/>
- <https://freepic.com/>

Thank You