



E-Commerce Website For Cake Shop

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Abstract : The online Cake Bakery System set up menu online and the customers easily places the order with a simple mouse click. Also with a cake menu online you can easily track the orders, maintain customer's database and improve your cake delivery service. This system allows the user to select the desired cake from the displayed menu. The user orders the cakes. The payment can be made online or pay-on-delivery system. The user's details are maintained confidential because it maintains a separate account for each user. An id and password is provided for each user. Therefore it provides a more secured Bakery.

Index Terms - Cake Shop, Bakery, Cake, Management.

I. INTRODUCTION :

An online Cake Bakery System is a web-based application that stimulates the customers to put cake orders through internet. This application is based on the Open Source platform. The online Cake Bakery System is a web-based application leveraging an Open Source platform. It encourages customers to place cake orders online. This platform facilitates seamless browsing of cake options, order placement, and customization. Users can choose cake flavors, sizes, and decorations, as well as add special messages or custom images. Integrated payment gateways ensure secure transactions, while order tracking provides real-time updates. Customer feedback through reviews and ratings enhances credibility. Robust security measures safeguard sensitive information, ensuring privacy. Continuous support and updates maintain system efficiency. With a user friendly interface and comprehensive features, the system simplifies the online cake ordering process, enhancing customer satisfaction.

II. MOTIVATION

Our motivation stems from a desire to revolutionize the cake ordering experience. By harnessing the power of open-source technology, we aim to democratize access to high quality bakery services. Our web-based application empowers customers to effortlessly place cake orders online, offering convenience and flexibility. Through continuous innovation and customer-centric design, we strive to enhance the online shopping journey, making it more enjoyable and efficient. Join us in embracing this digital transformation and delighting in the sweetness of seamless cake ordering, anytime, anywhere.

III. LITERATURE SURVEY

E-commerce today gained so much popularity because its essential technologies are worked out at huge steps. We are even offered to feel the product to better understand its shape, size and quality. In these benefits why to go out somewhere else when all you have to do is make an order, choose the delivery method, put up your feet and wait till the order is supplied right to your doorstep.

In the present scenario internet and e-commerce are entirely committed towards every developed country. But we think it can be accomplished and can make a remarkable benefit to developing countries only if an ideal business purpose can be made.

Ohiduja Man et al. (2013) clearly discussed that E-commerce is a revolution & turning point in online business practices and can make a huge contribution to the economy¹ and Hasan et al. (2010) also indicated that currently, e-commerce organizations have increasingly become a fundamental component of business strategy and a strong catalyst for economic development².

Ray, (2011) reported that as a symbol of globalization, e-commerce represents the cutting edge of success in this digital age and it has changed and is still changing the way of business activities around the Globe.³ Developments in internet and web based technologies has narrowed down the differences between traditional and emarketplaces leading to e-commerce fast becoming the new convention. According to ASSOCHAM study, stated that "the size of the e-retail industry is poised to be 10 to 20 billion USD by 2017-2020"⁴.

Gupta, et. al. (2014) in their paper "E-Commerce: Role of e-commerce in today's business" presented a comprehensive definition of e-commerce while isolating it from e-business. The paper enlists the different E-commerce models i.e. B2B, B2C, B2G and C2C, narratively analysing the integrities of each⁵. Rina, (2016) also elaborates the different applications of e-commerce in "Challenges and Future Scope of E-commerce in India" also at the same time, defining the degree to which they are operational in the country⁶.

Gunasekaran et al. (2002) gave a broad outlook of electronic commerce within organizational system in "E-commerce and its impact on operations management defining it with reference to e-trading and elaborating, how it has permeated every kind of business⁷.

Mishra & Kotkar, (2015) traced the timeline and development of B2C e-commerce in "A Study on Current Status of ECommerce in India: A Comparative Analysis of Flipkart and Amazon" with its inception in the mid 1990s through the advent of matrimonial and job portals⁸. However, due to poor internet connectivity and speed, lack of secured online payment systems and lack of publicity & awareness, the progress was very slow.

Das & Ara, (2015) observed in "Growth of E-Commerce in India" that though online travel and hotel bookings still control the lion's share of e-commerce market, their share has comparatively fallen over the years due to the recent augmentation and consequent rise of e-tailing services⁹. There has been a tremendous surge in the volume of investment in this sector. Western countries already using e-marketing from way back and now it's reaching their saturation therefore investors are looking for tremendous opportunity in the Indian market, in the light of which, many startups have received funding from venture capitalists and private equity firms

IV. ANALYSIS

The need for an e-commerce website for a cake shop arises from evolving consumer preferences and market trends. With the increasing reliance on online platforms for shopping, customers seek convenience and accessibility in purchasing goods, including cakes. An e-commerce website offers several advantages for a cake shop. Firstly, it extends the shop's reach beyond its physical location, tapping into a broader customer base. Secondly, it provides convenience by enabling customers to browse, customize, and order cakes from the comfort of their homes. Additionally, an e-commerce platform allows for easy management of inventory, orders, and payments, streamlining operations for the cake shop. Furthermore, it facilitates personalized shopping experiences through features like customization options and order tracking. Lastly, an e-commerce website enhances brand visibility and credibility, establishing the cake shop as a reputable online destination for quality baked goods. Overall, investing in an e-commerce website for a cake shop aligns with consumer preferences and offers numerous benefits in terms of sales, efficiency, and brand reputation.

V. METHODOLOGY

Design, the initial development phase, defines a system's physical realization. Software design involves crucial technical activities: design, coding, implementation, and testing. Design decisions profoundly impact software success, reliability, and maintainability. It's the bridge between customer requirements and software realization, fostering quality and translating requirements into data in two steps: preliminary and detailed design.

VI. DESIGN

Modules:

I Administrator Module II Customer Module

Administrator Module

Admin can view all the information about the user edit the all details about the customer.

- Create cake category
- Manage cake categories

- Add cake item
- Manage Cake item
- Manage user order
- View Enquiry
- View Subscriber Emails

Customer Module

This Functionality provided:

- View product's list
- Register
- Place Order

Admin Module

1. **Dashboard:** In this section admin can see all detail in brief like total order, not confirmed order, confirmed order, Total cake being prepared, Total cake pickup, Total cake deliver, Total Can celled orders, and Total user.
2. **Reg Users:** In this section admin can manage register user (view/update).
3. **Cake Category:** In this section admin can manage cake category (Add and Update).
4. **Cake Menu:** In this section admin can manage cake menu (Add and Update).
Orders: In this section admin can view the cake order details and they have also rightto change order status according to current status.
5. **Orders:**In this section admin can view the cake order details and they have also rightto change order status according to current status.
6. **Search Order:** In this section admin can search particular order with the help of ordernumber.
7. **Reports:** In this section admin can view order details, order counts and sales reportaccording to dates.
8. **Pages:** In this section admin can updates about us and contact us page.
9. **Enquiry:** In this section admin can view the enquiry which is sent by users.
10. **Subscriber:** In this section admin view subscriber mails.

User Module

1. **Cake Menu:** In this section user can view which cake available in bakery
2. **My Accounts:** In this section user can his/her password , view and update his/herprofile and logout from accounts.
3. **My orders:** In this section user can view order history after login.
4. **Cart:** In this section user can add their cake which he/her want to order.
5. User has also a facility to download his/her invoice and cancel order if he/her wantsto cancel.

VII. USECASE DISGRAM

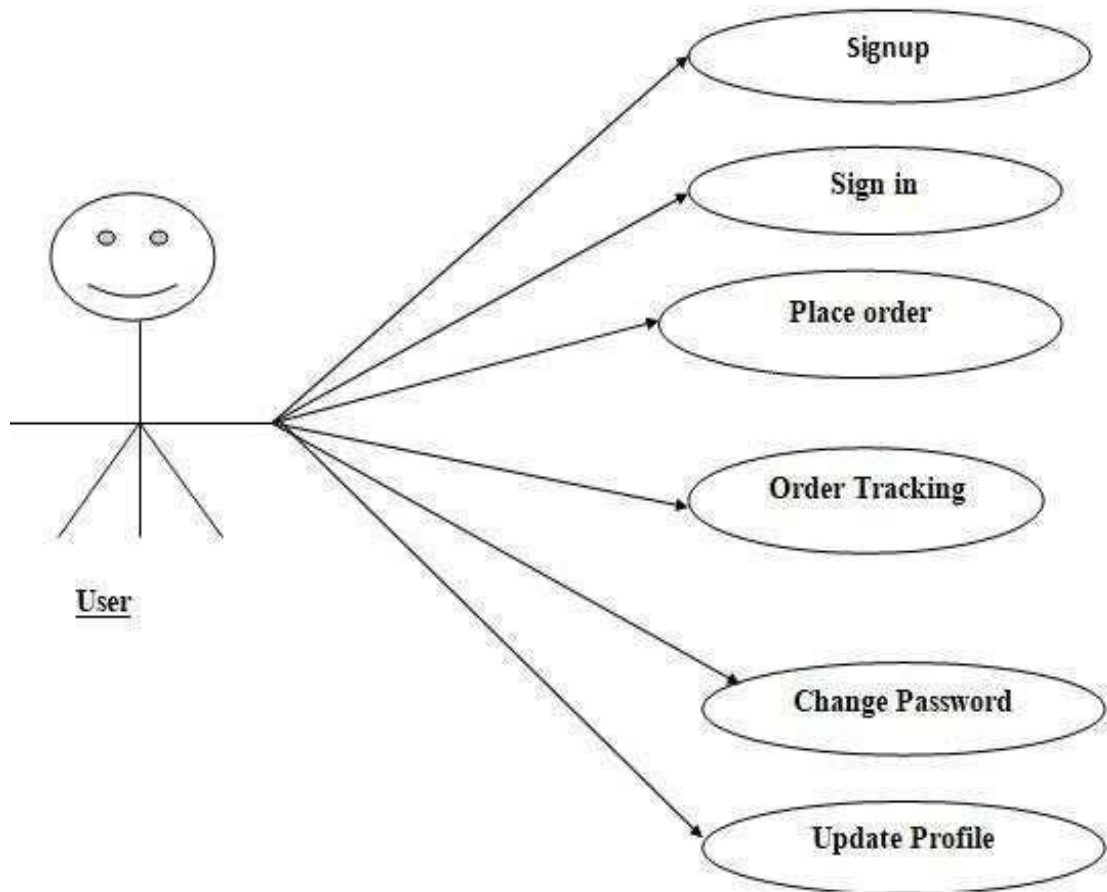


Fig: User

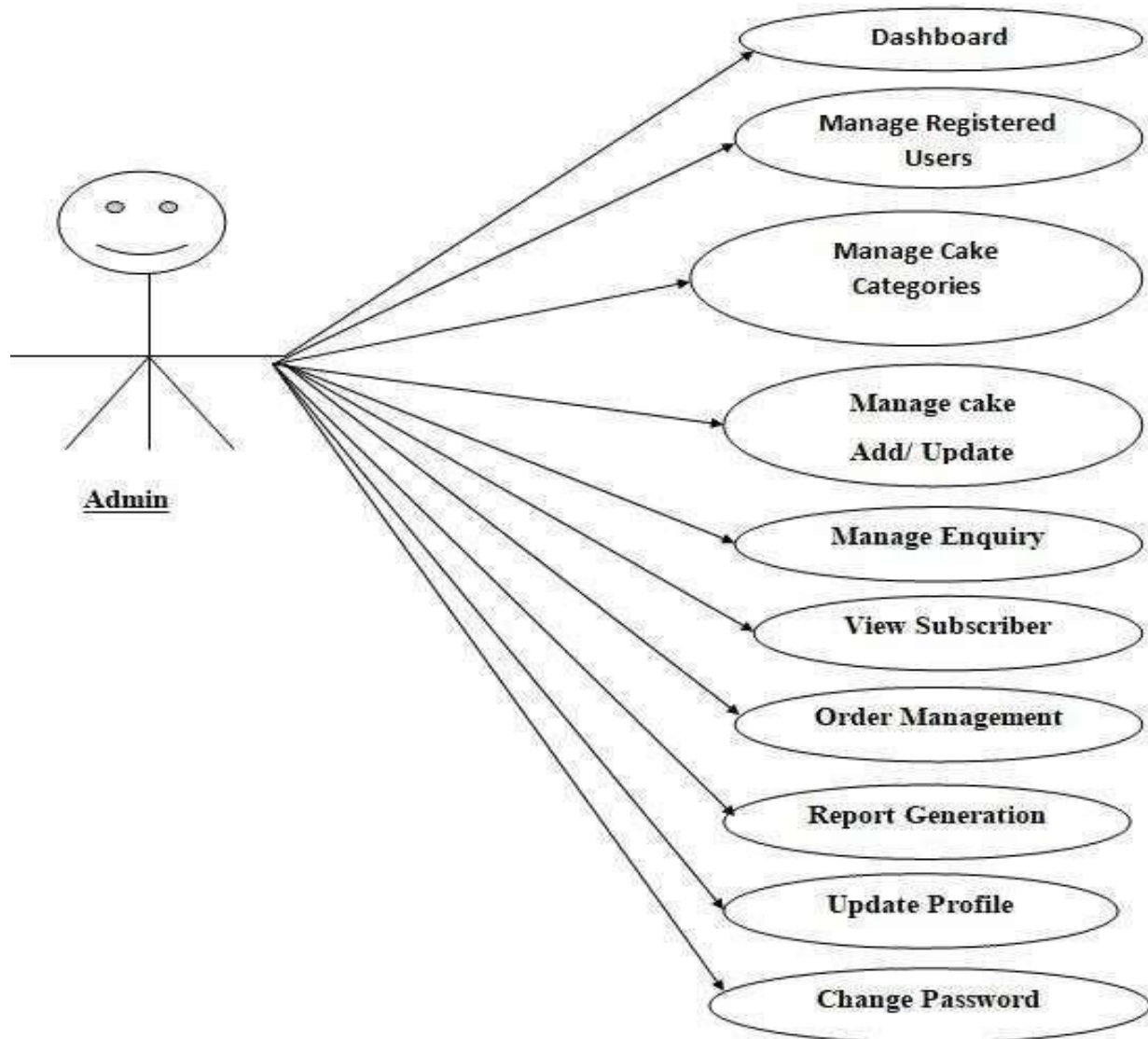


Fig: Admin VIII. DATA FLOW DIAGRAM

Circle: A circle (bubble) shows a process that transforms data inputs into data outputs.

DataFlow: A curved line shows the flow of data into or out of a processor data store.

Data Store: A set of parallel lines shows a place for the collection of data items. A data store indicates that the data is stored which can be used at a later stage or by the other processes in a different order. The data store can have an element or group of elements.

SourceorSink: Source or Sink is an external entity and acts as a sourceof system inputs or sink of system outputs.

Zero Level DFD

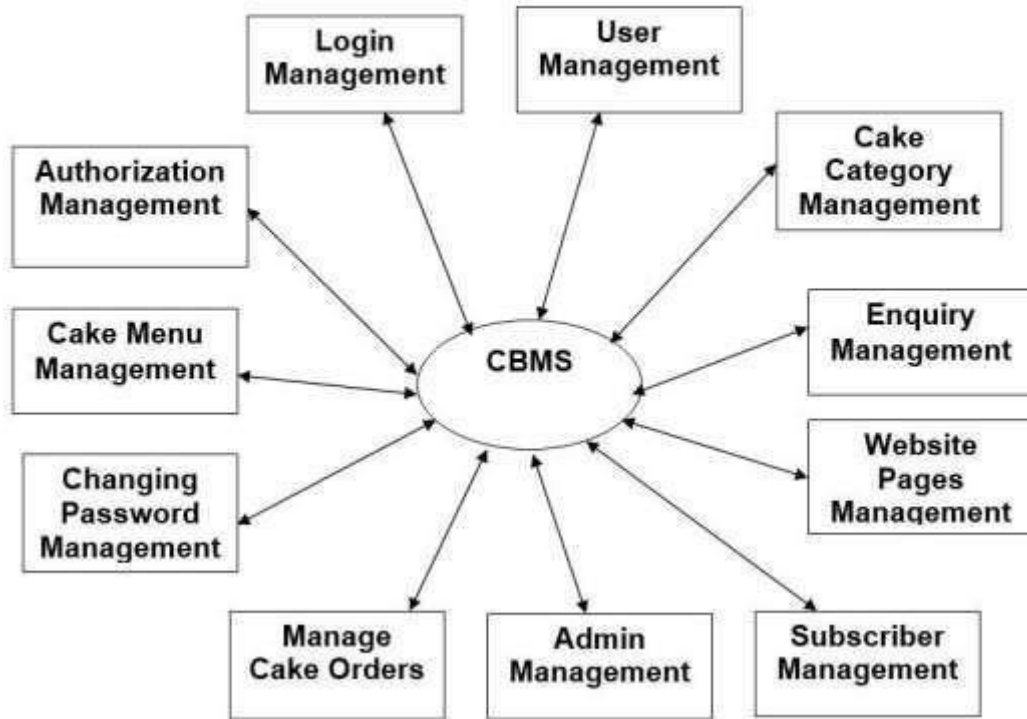
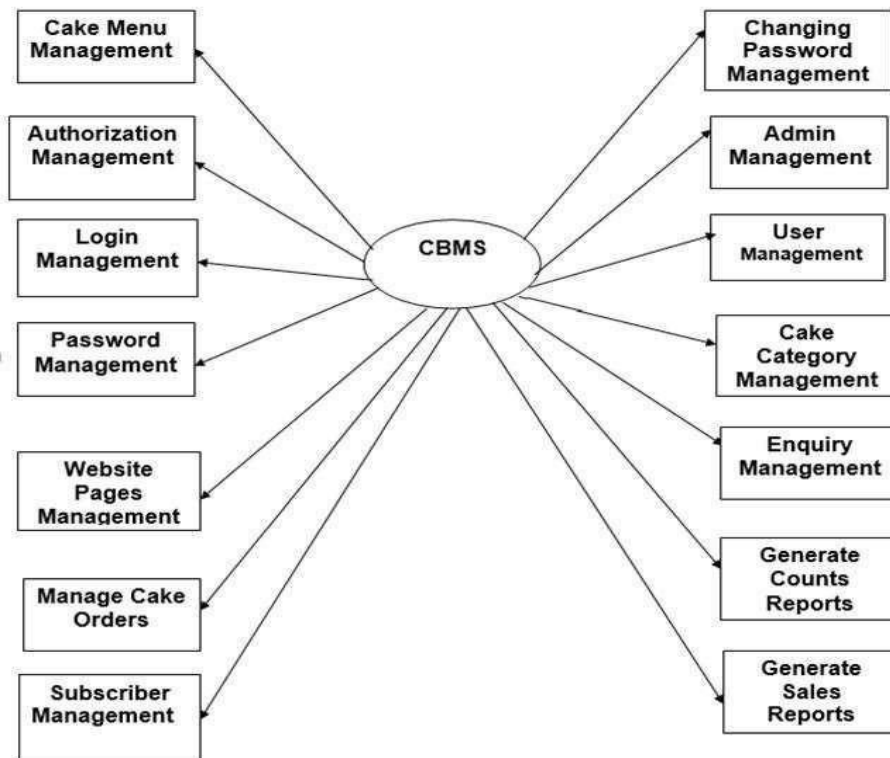
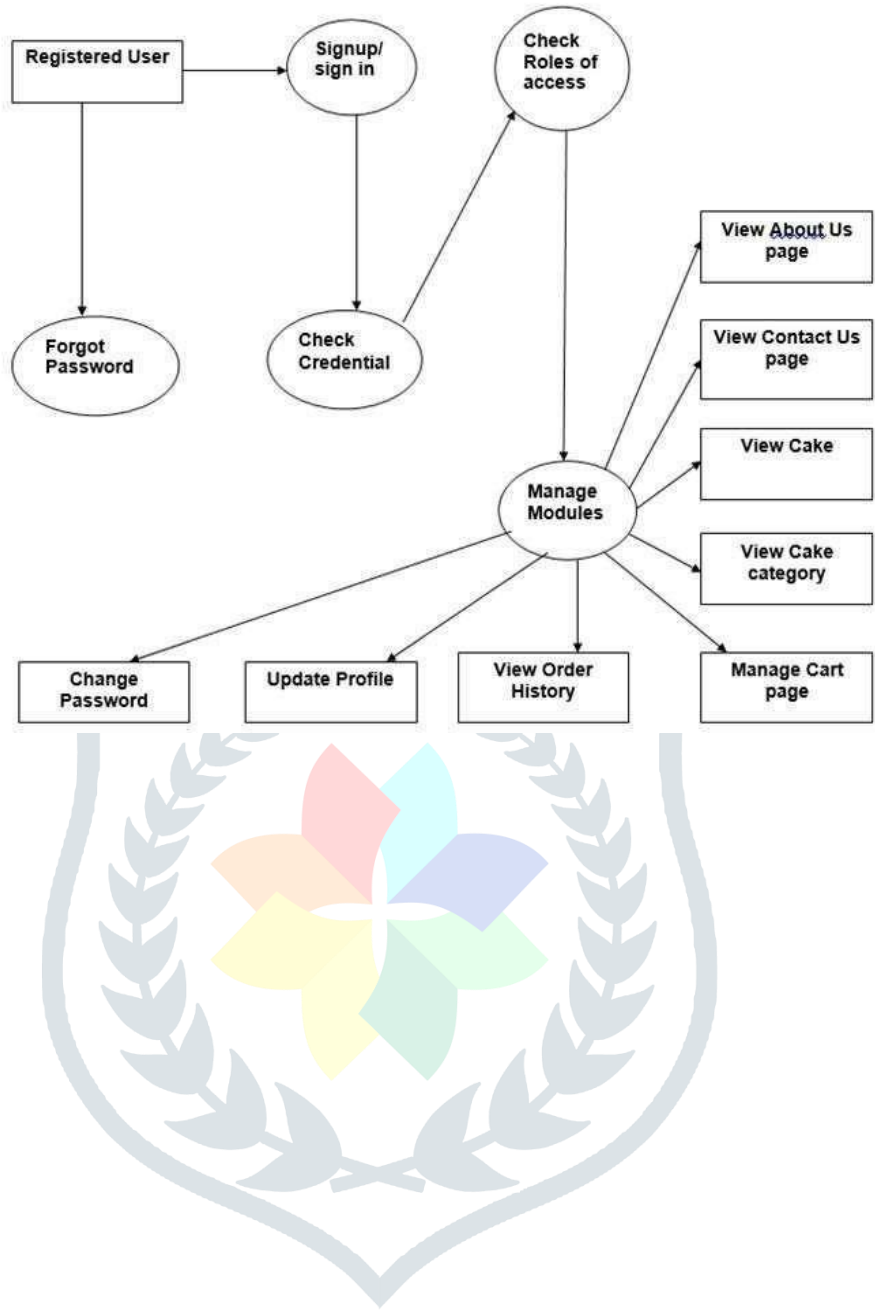


Fig: Data Web Flow

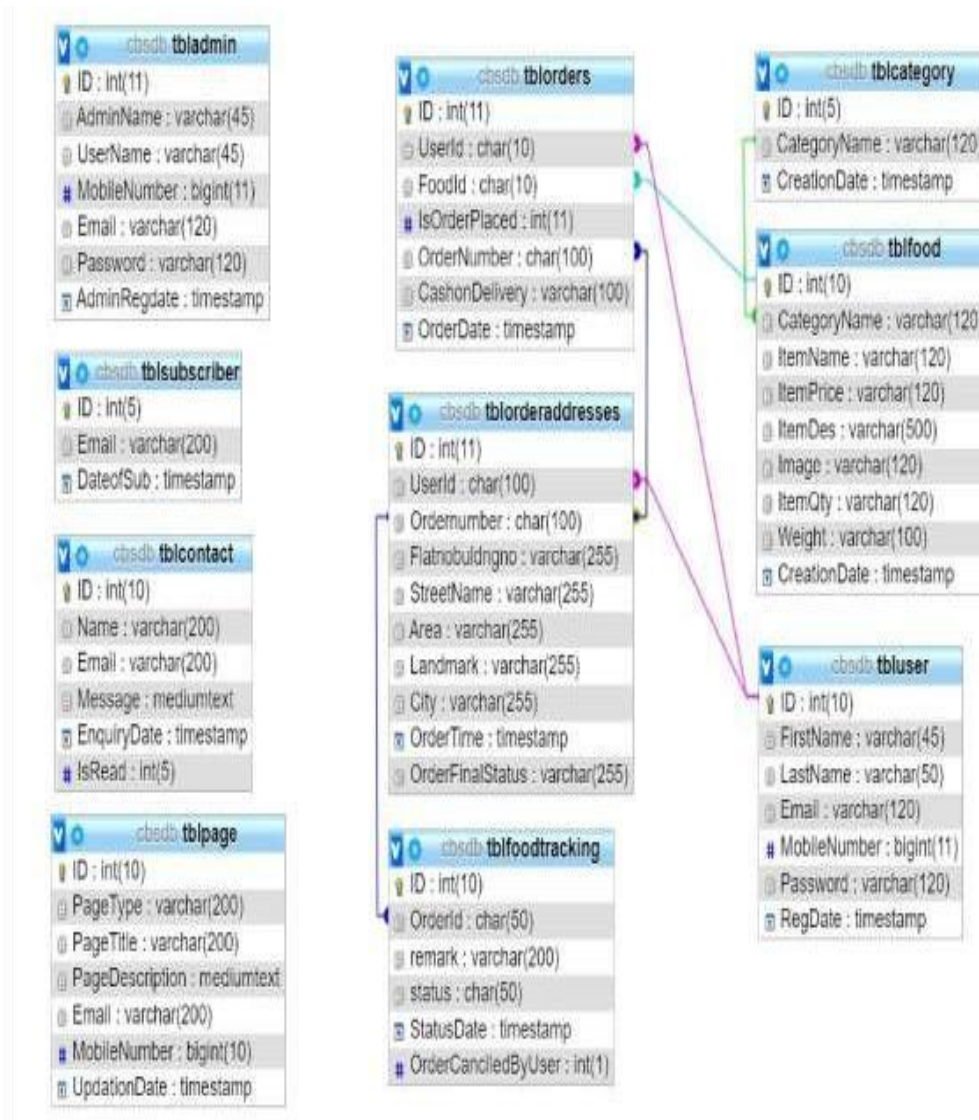
First Level DFD



Second Level



IX. TABLE RELATIONSHIP DIAGRAM



X. SCOPE

Online Presence: Establishing an online presence allows the cake shop to reach a broader audience beyond its physical location, tapping into the global market.

Increased Sales: With an e-commerce website, the cake shop can attract more customers and generate higher sales by offering convenient online ordering and delivery options.

Customer Convenience: Customers can browse through a wide range of cake options, place orders at their convenience, and schedule deliveries, enhancing their overall shopping experience.

Market Expansion: The e-commerce website enables the cake shop to expand its market reach beyond its local area, potentially reaching customers in different cities or even countries.

Personalization: Through the collection of customer data and preferences, the website can offer personalized recommendations, promotions, and discounts, fostering customer loyalty and repeat business.

XI. CONCLUSION

Advancements in technology over the past decade have revolutionized task management, prompting various industries to adopt management systems for improved efficiency. The food and beverage (F&B) sector is no exception, with a growing trend towards utilizing such systems. This project aims to develop a comprehensive management system tailored to the F&B industry, streamlining tasks, reducing transaction times, and providing detailed reports for enhanced decision-making. By automating processes, the system will boost restaurant productivity and profitability while cutting operational costs. Additionally, recognizing the importance of portability in modern technology, our approach integrates a mobile cake bakery system with the computer-based restaurant management system, offering users the flexibility to manage bakery orders via smartphones or tablets while overseeing restaurant operations on computers. This fusion optimizes user experience by leveraging the strengths of both platforms.

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