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Bakery Application

Mr. Mainuddin M. Shaikh¹, Mr. Krushna V. Kumbhar², Mr. Bhirudev D. Bandgar³ Prof. Indrajeet Y. Inamdar⁴, Prof. Sachin D. Pandhare⁵

¹Student, SMSMPITR, Akluj, Maharashtra - 413118

² Student, SMSMPITR, Aklui, Maharashtra - 413118

³Student, SMSMPITR, Akluj, Maharashtra - 413118

⁴ Professor, Dept. of Computer Science & Engineering, SMSMPITR Akluj, Maharashtra - 413118

⁵Professor, Dept. of Computer Science & Engineering, SMSMPITR Akluj, Maharashtra - 413118

Abstract - A user-friendly solution, Bakery Application is made to improve customer engagement, expedite bakery processes, and make the best use of available resources. It provides a user-friendly interface that is accessible on platforms, web mobile and enabling smooth communication between consumers, employees, and bakery owners. Staff scheduling, inventory control, and integrated online ordering and payment systems are some of the key features. In order to offer insights into client preferences, sales trends, and operational effectiveness, the application also integrates analytics tools. Bakeries may maximize their product options, pricing plans, and marketing efforts to boost sales and profitability by utilizing data-driven decision-making. With its scalability and customization capabilities, Bakery Application serves bakeries of all sizes and specializations.

Key Words: Android studio, Products, Services, Bakery Management, Food Safety, Online Ordering.

1. INTRODUCTION

The bakery mobile application is a strategic move to meet evolving consumer demands in the fast-paced world. It aims to bridge the gap between traditional bakeries and the digital realm, offering a seamless platform for customers to explore, order, and enjoy a wide array of bakery products. The application prioritizes simplicity and accessibility, with advanced functionalities like real-time order tracking, secure payment gateways, and personalized recommendations. The application also provides tools for bakery owners to manage their businesses more efficiently. including inventory management, order fulfillment, customer relationship management, and marketing initiatives. The bakery mobile application represents a significant step forward in the digital transformation of the bakery industry, offering convenience, efficiency, and personalization to both customers and owners.

1.1 Literature Survey

Venkata Rajeev P et al.[1]proposed a web base system for recommending and comparing products

which is sold online, and use natural language processing that automatically read reviews and to determine the polarity of reviews and used Naive Bayesian classification.

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Rana Alaa El-Deen Ahmeda et al.[2] included eleven data mining classification techniques to find the best classifier for consumer online shopping attitudes and also to build a recommender system using decision table classifier to find the products that user is searching for in some websites.

Noorfa H. Mustaffa et al.[3]build a system using rational unified process for bakery shop that provide the Short Message Service to notify customer when the order is ready for delivered and give flexibility in delivery options to the customer.

[4]The computerized bakery system aims to sell bakery items online, transforming the traditional shopping experience into a food service chain. This system eliminates the need for customers to visit the bakery or shop, saving time and ensuring availability. Customers can order items online, receive home delivery, and pay through credit/debit/net banking or cash on delivery, ensuring a seamless online experience for customers.

[5] This paper presents an e-commerce bakery shop system that uses data mining to manage daily online buying and selling activities. It includes an Android app for customers to purchase products, receive suggestions, and receive notifications/bills. The system also predicts fast and slow-moving products based on day and area, and calculates sales based on season/period. The system also tabulates monthly and yearly sales.



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2 Flow chart for System

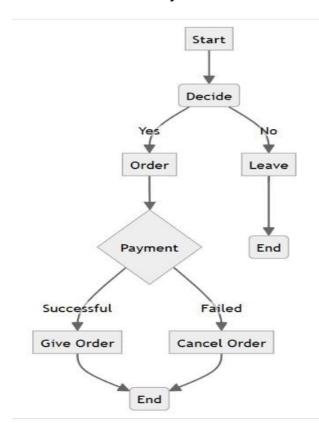


Fig. System Flow Chart

2. Related Work

Related work for a bakery application would encompass a survey of existing bakery management software, mobile applications, and relevant technological solutions tailored to the industry. This would involve examining functionalities such as inventory management, order processing, customer relationship management, and point-of-sale systems. Additionally, research would include analysis of user experiences, feature comparisons, and innovations in the field. Integration capabilities with popular platforms, customization options, and scalability would also be considered to assess the applicability and competitiveness of existing solutions for the envisioned bakery application.



Fig. Registration page

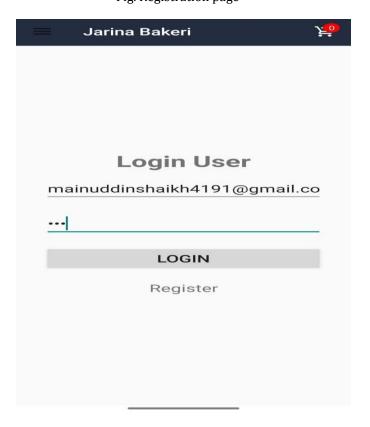


Fig. Login Page

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The login page for our bakery application offers a gateway to a world of delicious possibilities. With a simple username and password, users gain access to a delightful array of features tailored to their needs. Whether it's placing orders for freshly baked goods, managing inventory, or exploring new recipes, our login page is the first step towards a savory journey in the world of baking.

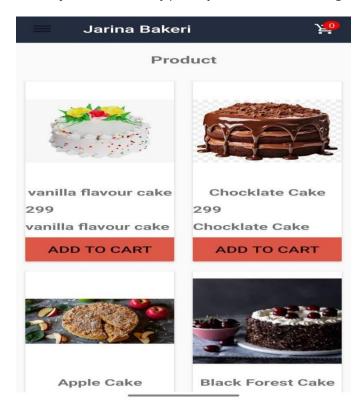
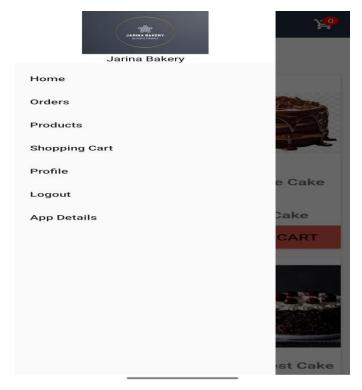


Fig. Product Page

The ultimate solution for your baking business! Streamline your operations, from managing orders to tracking inventory, all in one place. With intuitive features designed specifically for bakeries, you can easily showcase your delicious creations, accept online orders, and ensure timely delivery. Plus, stay connected with your customers through personalized notifications and promotions. Elevate your bakery business with efficiency and convenience. Try our Bakery Application today and watch your sales rise!



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Fig. home page

The homepage of a bakery application serves as the virtual storefront, welcoming visitors with a tempting display of freshly baked goods and enticing aromas. It showcases a curated selection of delectable treats, from artisanal bread to decadent pastries, inviting customers to explore further. With intuitive navigation and visually appealing design, the homepage sets the tone for a delightful browsing experience, promising culinary delights just a click away. Whether searching for the perfect loaf of bread or indulgent dessert, the bakery application's homepage acts as the gateway to a world of gastronomic pleasure, enticing customers to embark on a flavorful journey with every visit.

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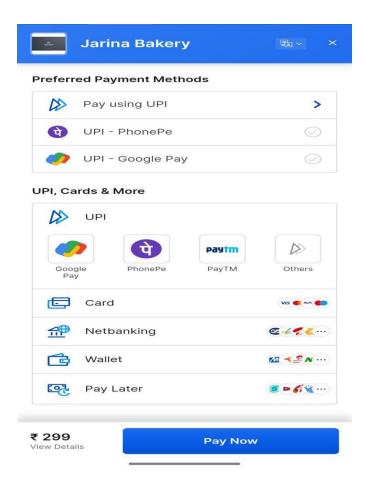


Fig. Payment Page

Designing an efficient payment page for a bakery application is crucial for ensuring smooth transactions and customer satisfaction. The payment page should be userfriendly, secure, and visually appealing, providing various payment options such as credit/debit cards, mobile wallets, and possibly even digital currencies. Integration with reliable payment gateways is essential to ensure the security financial information. Additionally. incorporating features like order summary, discounts, and real-time transaction updates enhances the user experience. A well-designed payment page not only streamlines the checkout process but also builds trust and loyalty among customers, contributing to the success of the bakery application.

3. CONCLUSION AND FUTURE SCOPE

In conclusion, this research paper has shed light on the significance of bakery applications in modern culinary practices. Through technological advancements, these applications have streamlined operations, enhanced customer experiences, and optimized business management for bakery owners. However, there remains ample room for future exploration and innovation in this domain. Further research could delve into refining user

interfaces for improved accessibility, integrating AI for personalized recommendations, and implementing sustainability measures throughout the supply chain. With continued development and adaptation, bakery applications have the potential to revolutionize the industry and elevate the bakery experience for both businesses and consumers alike.

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REFERENCES

- [1] Rana Alaa El-Deen Ahmeda, M.Elemam.Shehaba, Shereen Morsya, Nermeen Mekawiea academy for science technology(AASTMT), "Performance study of classification algorithms for consumer online shopping attributes and behavior using data mining", Fifth International Conference on Communication Systems and NetworkTechnologies 978- 1-4799-1797-6/15 \$31.00 © 2015 IEEE DOI 10.1109/CSNT.2015.50
- [2] Dr. Bharti Joshi ,Suhasini Parvatikar " online book recommendation system by using collaborative filtering and association mining", IEEE International Conference on Computational Intelligence and Computing Research 978-1-4799-7849-6/15/\$31.00 ©2015 IEEE
- [3] Noorfa H. Mustaffa*, Nur Farahin A.Razak, Nor Haizan M. Radzi, Roselina Sallehhuddin, Erne N. Bazin, "online food ordering system with short message notification" International Journal of Emerging Research in Management & Technology ISSN: 2278-9359 (Volume-4, Issue-12)
- [4] Ming-Hsiung Ying*, Yeh-Yen Hsu† "commodity search system for online shopping based on ontology and web mining" Department of Information Management, Chung Hua University, Hsinchu, Taiwan , Print ISBN: 978-1-84919-970- 4,INSPEC Accession Number: 15197126 ,DOI: 10.1049/cp.2014.1526 4-6 Dec. 2014
- [5] Venkata Rajeev P, Smrithi Rekha V "Recommending Products to Customers using Opinion Mining of Online Product Reviews and Features", International Conference on Circuit, Power and Computing Technologies [ICCPCT]978-1-4799-7075- 9/15/\$31.00 ©2015 IEEE