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A Survey Paper on Tiffindia - An Android Application for On-Demand Food

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Abstract: ***Online meal ordering and delivery services are expanding quickly thanks to developing technology because of changes in consumer behavior and technological advancements. The way that Indian consumers have responded to the Internet has created opportunities for a wide range of enterprises, from startups to major multinationals. Businesses now have the chance to grow their online services, such as online meal ordering and delivery services, thanks to online banking. The demands of those who lead hectic lives are satisfied by online meal ordering, which allows customers to place orders using laptops, tablets, or smartphones and have their food delivered to their homes in a matter of minutes. But there aren't many platforms that provide nutritious meals, particularly for people on particular diets. Due to their hectic schedules, the majority of students end up ordering junk food online or struggle to find the right meals for their particular diet online. The "tiffin-India-app" is an online ordering and delivery system for healthy food that is suggested for Higher Education Institutions to offer staff and students a variety of healthy food alternatives that can be tailored to their individual diets. The online ordering and delivery system will be developed using an extreme programming technique. The results showed that the suggested method, which makes use of the improved web service, is a successful effort to encourage students and employees of higher education institutions to lead healthy lifestyles and adopt appropriate eating habits.***

I. INTRODUCTION

With the technological advancements, e-commerce is expanding quickly worldwide, and this includes the food sector. Owing to their convenience and usability, applications for ordering and delivering meals have seen an exponential increase in demand. These days, popular payment gateways, real-time GPS tracking, and prominently friendly features are all included in food ordering applications, making it easier for people all over the world to order food online with a few clicks and reduce human error compared to the lengthy process of placing an order over the phone. Customers that order online can take their time browsing the menu without worrying about lengthy lines behind them, and they can even assist others in avoiding long lines to avoid wasting time.This project is about an online ordering and delivery system for healthy food called "TIFFIn-app" for higher education institutions. Students and staff will be able to purchase healthy food products in the Pune area and have the option to categorize them according to different diets. Various meal plans will be accessible on the system based on diet categories, vegetarian, non-vegetarian. Users will have the option of making their payment with cash on delivery or with their debit or credit cards. Users will be able to check the status of their orders via GPS tracking through this online application. Additionally, quick delivery options and affordable delivery costs will be taken into account.

II. RELATED WORK

Considering the special nature of the business relationship between the third-party network platform and the online food vendor, the role in the monitoring process is not entirely clear. It is difficult to foresee the gains and losses from their distinct interests. Ensure the safety of food purchased online. Taking into account the management department, the platform for a third-party network, the online food security, the gaming relationship, and the Evolutionary games are the basis for the analysis of stores. the game, strategy balance, and tactics used in the game under different circumstances are all investigated. The results show that the process of monitoring online food security, as well as the food monitoring of the security measures of the third-party network platform and the regulatory agencies, can be done by fully utilizing the third-party network platform. [1]

The intense competition in the Indonesian fast food market has forced the industry to find new ways to understand market conduct. The new challenge should be faster data. procedure for data collection and analysis, with a preference for timely delivery that is almost real-time Surveys and interviews, which are the traditional means of gathering market data, are thought to be more expensive and time-consuming than the analysis of online conversations for the brand community.

With the availability of large-scale data from online social network services (oSNS), we can now extract valuable information to illustrate the dynamic behavior of the market. Because they were attempting to manage customer relationships, many businesses are represented in oSNS (CRM). [2]

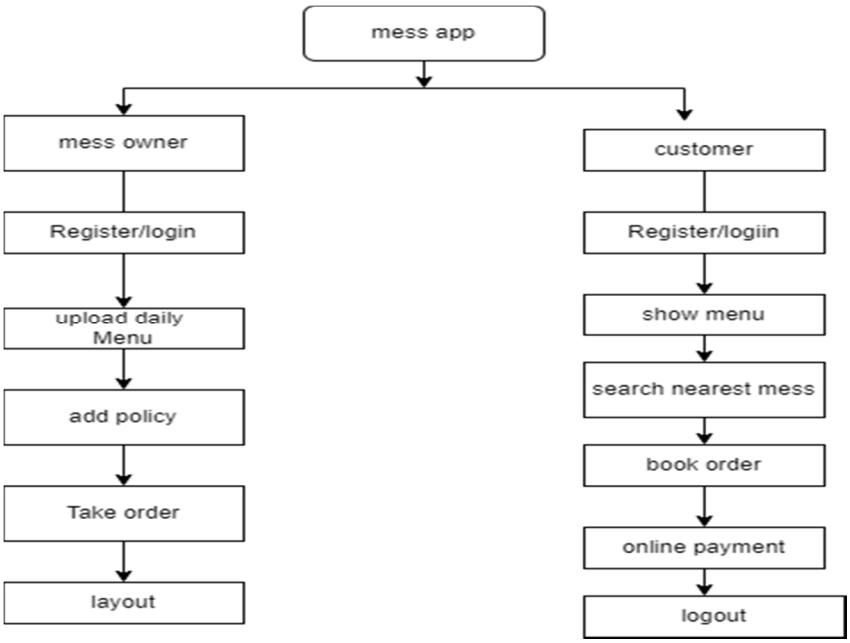
Governance of online food safety has received a lot of attention lately. A two-stage online food safety governance model with single governance mode (SGM) and co-governance mode (CGM) was developed in order to assess governance performance. Results showed that under SGM, the platforms might be able to regulate businesses' illegal behavior to some extent by Businesses would usually choose to market tainted food as a tactic once the platforms relaxed their oversight, increasing the chance of detection and imposing penalties. As such, the outcome of platform single governance was subpar. The outcomes also showed that CGM and SGM did not always perform better. When the co-governance mode satisfied the next two conditions, food Companies would carry on offering healthful food for sale online.[3]

Wong's "Theory of Ground Vehicles," as it is presented in the third edition that John Wiley & Sons, Inc. published in 2001, is a notable work in the field of ground vehicle dynamics. This thorough investigation explores the theoretical underpinnings of ground vehicle behavior. Wong's insights offer a foundational resource for researchers, engineers, and enthusiasts in the field by providing valuable knowledge for understanding the complex dynamics and mechanics associated with ground vehicles. In particular, the third edition emphasizes how Wong's work continues to be relevant and contributes to our understanding of ground vehicle theory on a scholarly level.[4]

Modeling and validation for zero emission buses," which was presented at the IEEE Transportation Electrification Conference and Exposition (ITEC) in June 2017 in Chicago, IL, is a notable contribution in the field of zero-emission transportation. With an emphasis on modeling and validation specifically for zero-emission buses, this study sheds light on the complex dynamics and performance traits of these green vehicles. Their findings are summarized in the proceedings, which are an invaluable tool for academics and industry professionals looking to expand their knowledge and expertise in the field of zero-emission transportation. The relevance of this work in the context of electrified and sustainable transportation systems is highlighted by its inclusion in related studies. [5]

The cooperative work of A. Delorme, D. Karbowski, R. Vijayagopal, and P. Sharer in the investigation of fuel consumption in medium- and heavy-duty vehicles is noteworthy, as stated in their report submitted in October 2009 to the National Academy of Sciences in Washington, D.C. Through the use of modeling and simulation, this study examines how fuel consumption is evaluated and offers important insights into the variables affecting fuel efficiency in the context of medium- and heavy-duty vehicles. The report's extensive format, which was submitted to the National Academy of Sciences, demonstrates the study's scholarly caliber and applicability. For researchers, legislators, and business professionals interested in deepening understanding, this work is a useful resource.[6]

III. ARCHITECTURE OF THE PROJECT



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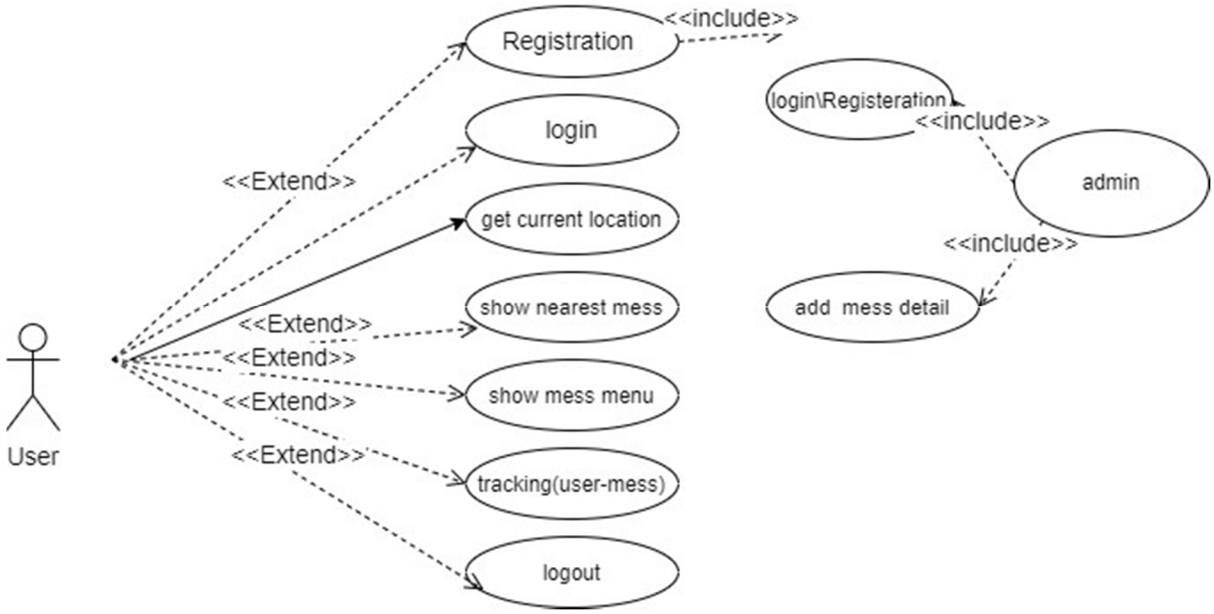
IV. UML DIAGRAM



V. PROJECT OBJECTIVES

1) *Provide Convenient and Healthy Meal Options:* Develop an intuitive and user-friendly online platform that enables students and staff to easily order nutritious meals tailored to their specific dietary requirements.
2) *Promote Healthy Eating Habits:* Educate and encourage users to adopt healthier lifestyles by offering a diverse menu of nutritious meals, thereby steering them away from unhealthy food choices.
3) *Utilize Technology for Seamless Ordering:* Implement state-of-the-art technology, leveraging laptops, tablets, and smartphones, to create a seamless and efficient online ordering and delivery system.
4) *Cater to Diverse Dietary Needs:* Design the platform to accommodate various dietary preferences, including options for vegetarian, non-vegetarian, vegan, and other specialized diets, ensuring inclusivity.
5) *Implement Extreme Programming Techniques:* Employ extreme programming techniques in the development process to ensure rapid and iterative delivery, fostering flexibility and responsiveness to evolving user needs.
6) *Enhance User Experience with Improved Web Services:* Utilize enhanced web services to optimize the user experience, providing real-time updates on order status and delivery, contributing to customer satisfaction.
7) *Encourage Online Banking for Seamless Transactions:* Facilitate online banking options to streamline and secure payment processes, enhancing the overall convenience and efficiency of the ordering system.

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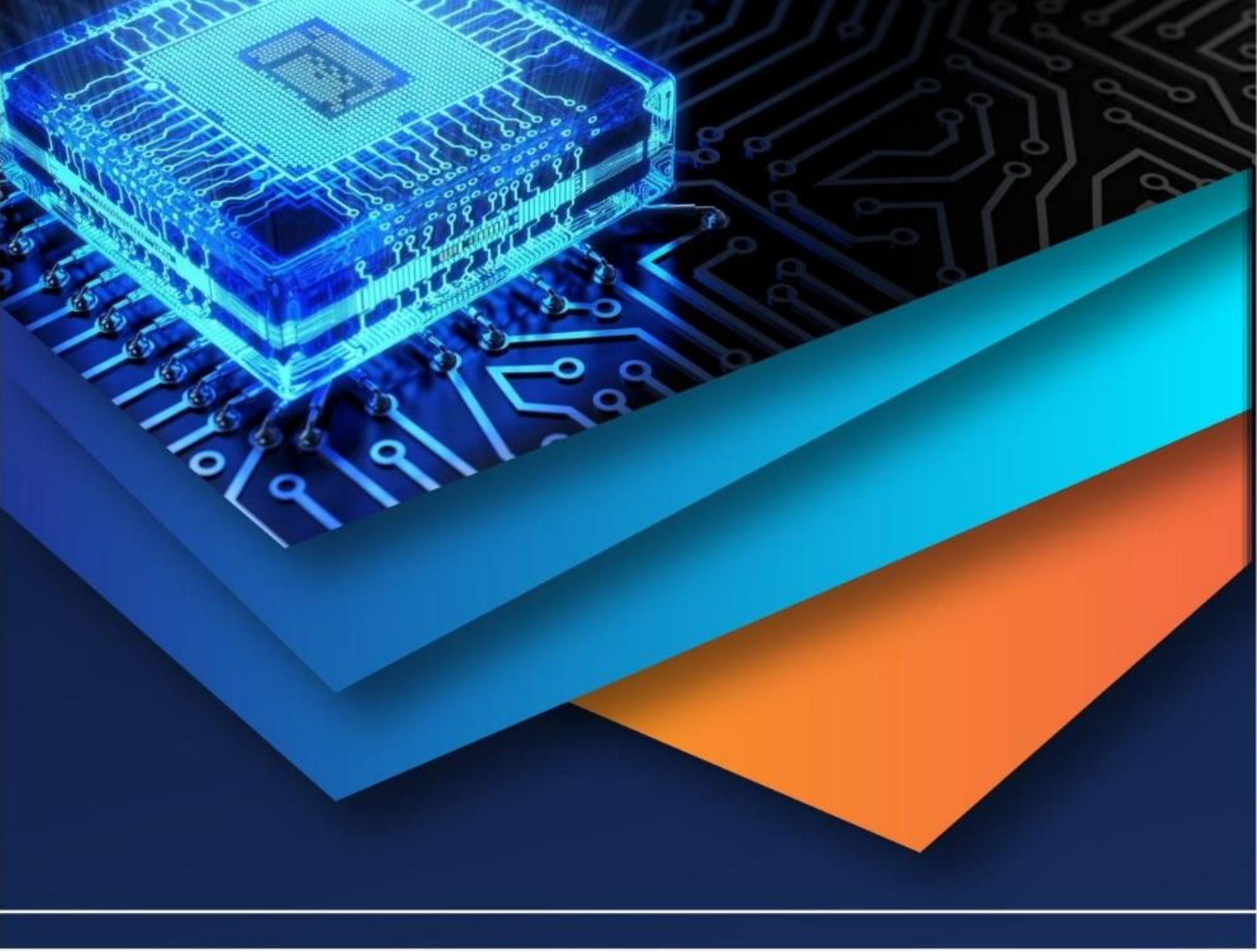

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