

# Online Food Ordering System

Mrs. Supriya S. Bhosale<sup>1</sup>, Ms. Madhura M. Badve<sup>2</sup>, Ms. Rasika V. Girvikar<sup>3</sup>,

Ms. Rutuja M. Benare<sup>4</sup>, Ms. Gauri P. Kulkarni<sup>5</sup>

Assistant Professor, Department of Computer Science and Engineering<sup>1</sup>

Students, Department of Computer Science and Engineering<sup>2,3,4,5</sup>

SVERI's College of Engineering, Pandharpur, India

**Abstract:** *With the growing popularity of food delivery, conventional phone order has become inconvenient for both customers and food delivery stores. People are concerned about how to make food delivery more timely and convenient. As a result, this research investigates and creates new takeaway apps that are simpler and more object-oriented than existing apps. Food delivery should be timely, convenient, and comprehensive. Many food delivery systems exist today, but their functions are not comprehensive, and some do not meet the requirements of timely delivery, friendliness, payment is too simple, the layout is too rigid, and information updates are not timely enough. An Online Food Ordering System that simplifies the food ordering procedure is proposed here. The proposed system updates the menu with all available options, easing the customer's job. Customers can place orders for multiple items and check order details before logging out. The customer receives an order confirmation. The order is queued, updated in the database, and returned in real-time. This technology enables personnel to go over orders in real-time and process them efficiently and with few errors.*

**Keywords:** Online Food

## I. INTRODUCTION

An online Food Ordering system may be a technique of ordering varied foods and beverages from native restaurants and hotels via the web whereas sitting reception or anywhere else. And therefore the order is delivered to the desired address. Labor rates square measure endlessly rising year when a year, creating it powerful to rent employees.

The food trade is very effortful, and therefore the most {costly} facet of the food trade is the cost of hiring the correct individuals to execute the task. One choice to cut prices is to use modern technology to switch a number of the duties done by humans and have machines do the work. During this section, we propose AN "Online Food Ordering System" for nutriment Restaurants, Take-Out, or faculty Cafeterias. The strategy is additionally applicable within the food delivery trade. The most goal of developing an internet Food Order project is to vary the method of the edifice business. Customers WHO square measure free will visit restaurants directly and will order their favorite food. However, customers WHO have busy with their work won't get time to ascertain their favorite edifice. This project permits customers to order food things online and ordered food things are delivered to the customer's place. Every one of the varied advantages of this technique is that if there's a rush or an enormous crowd gift within the edifice then that case typically the inconvenience of tables cuts down the restaurant's customers. Also, there'll be a possibility that the waiter's square measure is unavailable as they're busy handling others, therefore the client will directly order the food from the cook online by victimization this application, to checking the seat accessibility within the edifice.

## II. LITERATURE SURVEY

Online ordering method for food Creates an online menu so that customers may quickly order based on their preferences. The Online Meal Ordering System handles food orders from multiple eateries.

This system includes the following features:

Data collection: The program collects information from the customer.

Knowledge verification: the information gathered from the consumer (meal requested) is cross-checked with the individual restaurant for availability.

Order confirmation: The order is confirmed by sending the buyer a confirmation text message.

Live tracker: The live tracker will assist the consumer in tracking the status of their current order.

Customer analytics: for orders placed in various regions, comparable restaurant suggestions will be provided.

Customer feedback: Customers will be able to rate their experiences and make suggestions for adjustments and improvements to the current system.

Payment methods: A variety of payment methods will be available, all while ensuring safe and secure online transactions. We collect meal orders from customers, confirm them with restaurants, provide live tracking, and assure safe money transfers in this system.

The system also allows the customer to rate their experience and recommend changes.

### III. SYSTEM ANALYSIS

System analysis is performed to research a system or its elements to work out its objectives. It's a retardant determination strategy that enhances the system and guarantees that every one of the system's elements operates expeditiously to attain its goals.

System analysis and style as involved with shaping organizations, enhancing performance, and reaching profit and growth goals. The stress is on systems in action, system interactions, and their contributions to achieving a standard objective. System analysis includes observing a system and assessing how well it performs, the modifications that require to be created, and therefore the quality of the output.

The system's structure will be dampened into 3 major logical elements. The primary element should embrace menu management, permitting the eating place to limit what guests will order. The second element is that the net ordering system, which permits purchasers to put orders and submit all relevant data. The order retrieval system is the third and final logical element. The eating place uses this element to keep up track of all orders that are placed, retrieve and gift order data, similarly to update orders that have antecedent been processed.

The system's structure will be separated into 3 major logical components: the net Ordering System-permits purchasers to put orders and provides relevant data online. Menu Management permits the eating place to manage what shoppers will order. Order Retrieval System-The final logical element is the order retrieval system. This feature allows restaurants to stay track of all orders placed. This element handles order retrieval and show of order data.

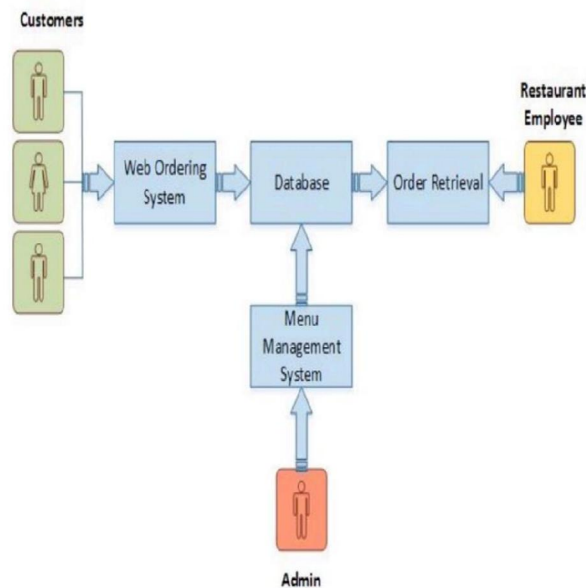


Fig. 1 (a) System Model

#### **IV. METHODOLOGY**

The development process has been divided into two parts: front-end development and backend development. The visible portions of the front end include the main page, admin panel, contact page, and shopping cart page. The database and its interaction with the front end are housed in the back end. Both the website and the application have front-end and back-end components.

##### **4.1 Software Requirements**

- Front-end style Django was wont to produce the website's front. Django includes a tempting system that's terribly kind of like a metropolis. This permits you to make straightforward or difficult pages that will be rendered in HTML. Django may be a sturdy structure that's developed in Python and uses all of its practicality to make business and private websites of varied quality. Django is AN ASCII text file project that facilitates the utilization of the foremost standard Python packages and technologies. Django assists you with information choice, formatting, and presentation. Computer address management, an example language, authentication systems, cache hooks, and alternative navigation tools like paginates as all enclosed.
- Development of the backend the rear finish is supported by the direction System (DBMS). The direction system is primarily a software system that permits the administrator to construct the info, add, delete, change, and update tables. Completely different styles of information may be held on within the tables. The SQLite info is used for the website's backend. 3) one in every of the foremost vital and hardest responsibilities is info style. The data submitted by the buyer throughout the registration method on the website is saved within the info. The things are tagged, discussed, and photographed. Hold on within the info what is more, if the administrator modifies any of the merchandise listed. The info is then updated. As a result, the application is heavily dependent on the info. SQLite's info is employed for website creation. SQLite is employed to make embedded software systems for devices like televisions, cell phones, cameras, and so on. It will handle hypertext transfer protocol requests with low to medium traffic. SQLite will compress files into smaller bundles with fewer data. SQLite may be a temporary information set that's wont to method data among AN applications.

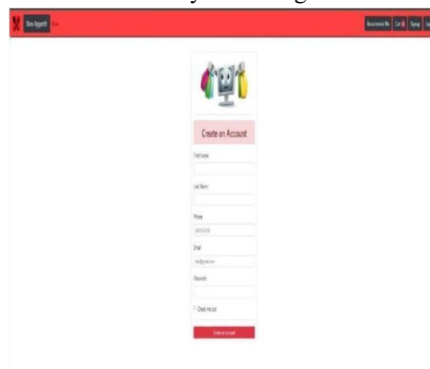
##### **4.2 Hardware Requirements**

A desktop computer with Intel Core i5 64-bit processor and Graphic card with 1 GB RAM and Microsoft Windows 10 operating system was used.

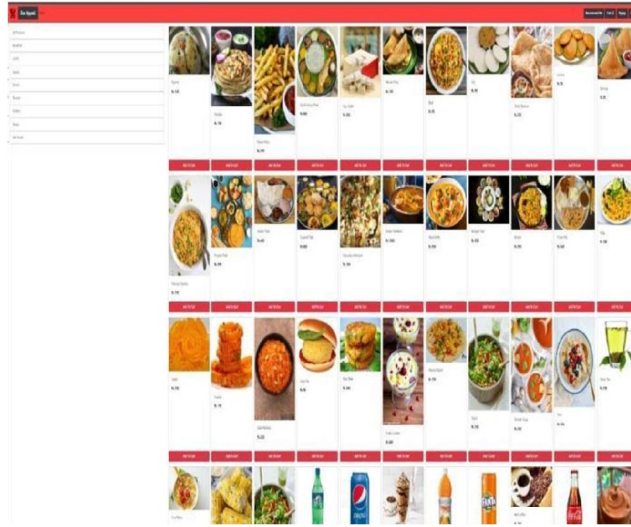
#### **V. RESULTS**

The following are the outcomes that can be obtained from this system:

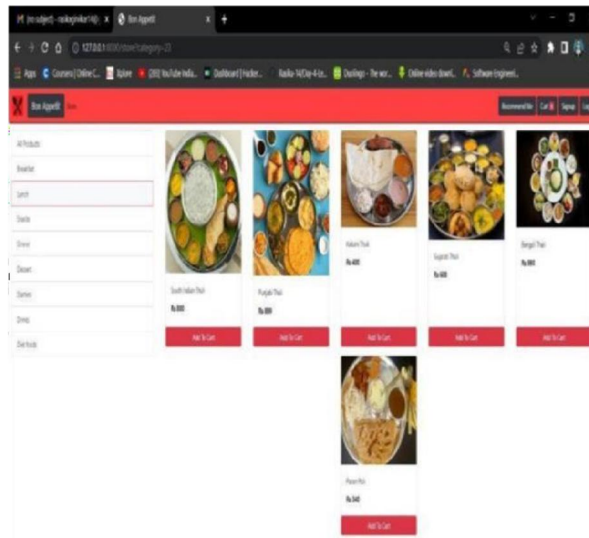
1. The suggested method allows people to effectively order food.
2. The method will help to decrease labor costs as well as the space necessary to set up cafeterias in the restricted region.
3. Because it is an automated system, it is less likely to make mistakes.
4. Customers can avoid long lines at the counter by executing tasks at an acceptable speed and throughput.



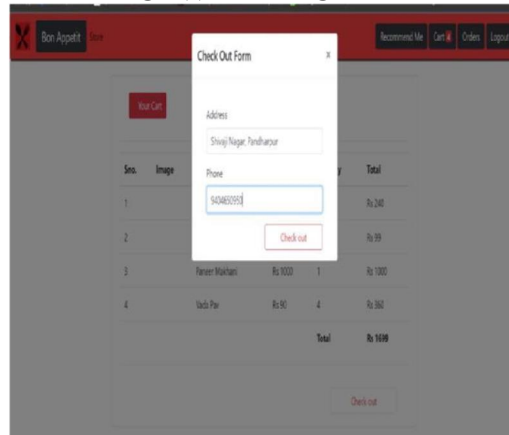
**Fig 2 (a).** Registration Page  
DOI: 10.48175/568



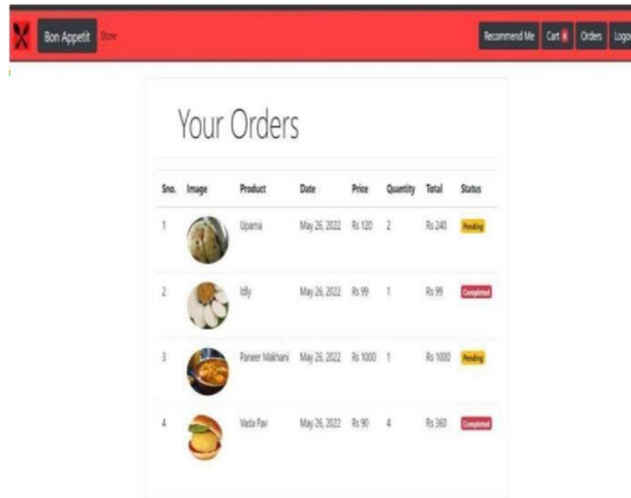
**Fig 2 (b). Home page**







**Fig 2 (c). Menu Page**



**Fig 2 (d). Checkout page**



SNo.	Image	Product	Date	Price	Quantity	Total	Status
1		Uparma	May 26, 2022	Rs 120	2	Rs 240	Pending
2		Idly	May 26, 2022	Rs 99	1	Rs 99	Completed
3		Paneer Makhan	May 26, 2022	Rs 1000	1	Rs 1000	Pending
4		Vada Pav	May 26, 2022	Rs 90	4	Rs 360	Completed

**Fig 2 (e). Order Status page**

## VI. DISCUSSION

People may effortlessly order food with the help of this technology. It can also ensure that people do not waste their valuable time and spend it productively on other tasks. In the long run, this will ensure that labor costs are reduced. This system outperforms other systems in terms of cost-effectiveness and dependability. When compared to other payment methods for food, this approach is difficult to fake or scam. It is simple to use and requires little upkeep. It requires no human involvement and thus qualifies as fully automated. There are no constraints to this system as such; but, when implementing it, one must consider the smaller elements such as server breakdown.

## VII. CONCLUSION

The online food ordering system was developed to assist and resolve one of the most significant client issues. Because a big proportion of clients have internet and telephone connection. These solutions will cover a wide range of Mess/Tiffin Service issues. Those who work long hours, for example, might save time on cooking by ordering the meal they desire promptly and without going hungry. It is efficient, saves time, and is reasonably priced. There will be no more order misunderstandings between consumers and restaurant staff. It allows customers to order a variety of dishes while also delivering a user-friendly customer experience.

As a result, the construction of an online food ordering system is done to help and answer one of the most significant client problems. It makes it easy for customers to place orders and gives the necessary information. The Food website application is intended to help restaurants receive orders.

Software and Hardware:

8 Gb Ram is used to train the CNN model. Single programming language used in the proposed system. Python 3.6 is used to build the CNN model and for the web application development, to make user compatible to use the system. Efficient library of Python i.e, 'keras and Tensorflow' is used.

## REFERENCES

- [1] Varsha Chavan, Priya Jadhav, Snehal Korade, Priyanka Teli, "Implementing Customizable Online Food Ordering System Using Web Based Application", International Journal of Innovative Science, Engineering Technology(IJISSET) 2015.
- [2] Mayur D. Jakhete, Piyush C. Mankar, "Implementation of Smart Restaurant with e-menu Card," International Journal of Computer Applications 2015 of Smart Restaurant with e-menu Card, "International Journal of Computer Applications 2015.
- [3] Desrosiers, C. and Karypis, G., 2011. A comprehensive survey of neighbourhood-based recommendation methods. Recommender systems handbook, pp.107-144

- [4] Serhat Murat Alagoza, Haluk Hekimoglu, "A study on tam: analysis of customer attitudes in online food ordering system", Elsevier Ltd. 2012.
- [5] Patel Krishna, Patel Palak, Raj Nirali, Patel Lalit, "Automated Food Ordering System", International Journal of Engineering Research and Development (IJERD) 2015.
- [6] Anderson, C., 2006. The long tail: Why the future of business is selling less of more. Hachette Books
- [7] N. A. Samsudin et al., "Customizable Wireless Food ordering System with Real time customer feed-back ".2011 IEEE Symposium on Wireless Technology & applications(ISWTA), September 25-28,2011, Langkawi, Malaysia.
- [8] Ueta, T., Iwakami, M. & Ito, T. (2011, December 12-14)\*. A recipe recommendation system based on automatic nutrition information extraction. In H. Xiong & L. B. Lee (Eds.), Proceedings of the 5th International Conference on KSEM (pp. 79-90). Retrieved from [https://doi.org/10.1007/978-3-642-25975-3\\_8](https://doi.org/10.1007/978-3-642-25975-3_8)
- [9] Svensson, M., Laaksolahti, J., Höök, K., & Waern, A. (2000, January)\*. A recipe based on-line food store. In Proceedings of the 5th international conference on IUI (pp. 260-263). Retrieved from <https://doi.org/10.1145/325737.325866>
- [10] Talekar, P. S., Raghavendra, G. S. & Vaddatti, B. (2019)\*. NutriSmart- Food Products Recommendation System. International Journal of Innovative Science and Research Technology, 4(5), 773- 775. Retrieved from <https://ijisrt.com/wpcontent/uploads/2019/06/IJISRT19MY474.pdf>