**Report on**

**Food ordering system**

**by**

CHELSEY SINGH(2200290140050)

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Under the supervision of

**Prof. (Dr.) / Dr. / M/S SHALIKA ARORA (asst. Professor)**

### KIET Group of Institutions, Delhi-NCR, Ghaziabad



### Department Of Computer Applications

**KIET GROUP OF INSTITUTIONS, DELHI-NCR, GHAZIABAD-201206**

( 2023- 2024)**ABSTRACT**

With the rapid development of mobile technology, mobile application is connecting every field all together. Therefore, food industry is using this technology in connecting with vast public through online food ordering. Online food ordering may be a process that delivers food from local restaurants and other food co-operatives through a mobile application or an internet site. This type of food delivery is gaining popularity with more and more people especially the younger generation turning to mobile food ordering apps, thereby changing the way food is delivered and picked up [1]. Customers prefer using the food ordering app as they will generate an order without having to elucidate it to a special person and have the food delivered at his doorstep. Moreover, online payment makes this process easier and faster. Some popular online food order

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***Introduction***

With the rapid development of mobile technology, mobile application is connecting every field all together. Therefore, food industry is using this technology in connecting with vast public through online food ordering. Online food ordering may be a process that delivers food from local restaurants and other food co-operatives through a mobile application or an internet site. This type of food delivery is gaining popularity with more and more people especially the younger generation turning to mobile food ordering apps, thereby changing the way food is delivered and picked up [1]. Customers prefer using the food ordering app as they will generate an order without having to elucidate it to a special person and have the food delivered at his doorstep. Moreover, online payment makes this process easier and faster. Some popular online food ordering companies are “Swiggy”, “Zomato”. Popular machine learning algorithms like Decision Tree were applied over a dataset of lakhs of records. For the customer, this application provides a view of food information like category, name, image, price, description etc. on the application. For the administrator in any particular restaurant, this application offers a series of operations to add, update, delete and query the information of food, food order, customer and employees. The typical mechanism behind food delivery is as follows: the user on the food delivery application chooses a restaurant to order food from, checks the menu list, select food to order and proceed to payment. Once payment is done, an employee i.e., the rider nearby the location picks food from the restaurant and delivers to the user’s home [2]. This also increases employability as a platform is provided to deliver food to the houses. The basic features that are needed by the customers in an application are making order, food review, order history, restaurant profile, profile setting, order status, and track order. Journal of University of Shanghai for Science and Technology ISSN: 1007-6735 Volume

***Project Objective***

The main objective of the paper is to provide an online food delivery app “FOODIE” which can serve the society with an added advantage by ordering from two or more places if in the same route or within 5-6 km range, and the customer can only register once using Aadhar verification and secure log-in, it makes the web portal safe for transactions. Also, to eliminate the wait time, the users can book a table at the restaurant of their choice with just a few taps. The purpose of this invention is to provide profit in terms of Stakeholders [32], easy in terms of the app user, diverse options for ordering food, improvising in Delivery mechanism to solve the hectic situation created by single place, single order criteria.

***LITERATURE REVIEW***

The field of online auction systems has been extensively studied, with researchers focusing on various aspects such as system architecture, security, usability, and performance. This section provides an overview of existing literature and research related to online auction systems, highlighting the challenges and areas of focus in the field. Security in Online Auction Systems: Security is a critical aspect of online auction systems to ensure the integrity of transactions and protect user information. Several studies have proposed techniques and mechanisms to enhance the security of these systems. Zhang and Zhuang (2017)[1] proposed a secure multi-party computation framework for online auctions, ensuring privacy and preventing collusion among participants. Additionally, authentication mechanisms, encryption techniques, and secure communication protocols are commonly employed to safeguard user data and prevent fraudulent activities. Usability and User Experience: The usability of an online auction system plays a crucial role in attracting and retaining users. Research has focused on designing intuitive user interfaces, simplifying the bidding process, and providing effective search and filtering capabilities. The work by Hong et al. (2018) [2]emphasized the importance of user-centered design principles in creating user-friendly auction platforms. Usability studies and user feedback have been used to improve the overall user experience and increase user satisfaction.

Performance and Scalability: Online auction systems need to handle a large volume of users and transactions simultaneously. Ensuring high performance and scalability is essential to provide a seamless experience to users. Research has explored techniques such as load balancing, caching, and database optimization to improve system performance and handle increasing user loads. Additionally, the adoption of scalable cloud infrastructures and distributed computing technologies has been investigated to enhance the scalability of online auction systems. Trust and Reputation Management: Establishing trust among buyers and sellers is crucial in online auction systems. Trust mechanisms and reputation systems have been studied to mitigate the risks associated with dishonest behavior. Research by Wang et al. (2017) [3] proposed a reputation-based trust model to evaluate and predict the trustworthiness of auction participants. Trust factors such as seller ratings, buyer reviews, and dispute resolution mechanisms contribute to building trust in online auction environments.

The existing literature provides valuable insights into the design, implementation, and evaluation of online auction systems. However, there is still room for further research in areas such as privacy-preserving auction protocols, blockchain-based auction systems, and artificial intelligence techniques for bid prediction and optimization. This research aims to contribute to the existing body of knowledge by developing an online auction system using the Python Django framework and addressing the challenges and considerations identified in the literature.

***Project Flow***

1. ***Working of the System***

# The system comprises only 1 module: User.

# The user would require to register first to access the system. They can log in using their credentials after registering. They can manage their profile and change the password if they want. On the Home Page, the users can view the list of ongoing auctions both conducted by others and themselves.

# The user can view the list of all the ongoing auctions. They can view the product details and enter the bid. On My Application, the user can view the list of auctions on which they have made a bid. They can check the product details. They can even check the bids and their status. On My Auction, they can add, update, delete and view auctions. The user can choose the winner of their auction.

# In the system, the front end involves PYTHON and in the database it uses mysql.

1. ***Advantages***

* The system will help users conduct orders securely.
* The users can enjoy from the comfort of their homes.
* It helps to save time and money that is wasted on the physical setting.

1. ***System Description***

The system comprises 1 major module with their sub-modules as follows:

* **User:**
* Register:
* The user would require to register first to access the system.
* Login:
* They can log in using their credentials.
* Profile:
* They can manage their profile.
* Change Password:
* They can change their password if they want.
* Home:
* On the Home Page, the user can view the count of all the ongoing auctions.
* They can also view the count of the ongoing auctions conducted by them.
* Auctions:

1. Auctions:

* The user can view the list of all the ongoing auctions.
* They can view the product details.
* They can enter the bid here.

2. My Application:

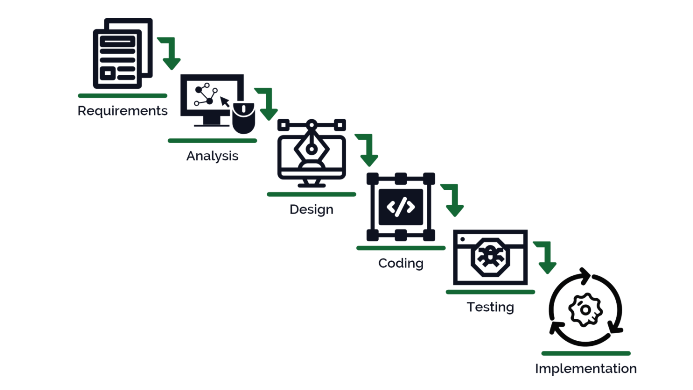
* The user can view the list of auctions on which they have made a bid.
* They can view the product details.
* They can view the bid and its status.

•My Auctions:

* The user can add, update, delete and view an auction for their product.
* The user can view the list of bids made by others and their details.
* They can choose a winner.

1. ***Project Life Cycle***

The waterfall model is a classical model used in the system development life cycle to create a system with a linear and sequential approach. It is termed a waterfall because the model develops systematically from one phase to another in a downward fashion. The waterfall approach does not define the process to go back to the previous phase to handle changes in requirements. The waterfall approach is the earliest approach that was used for software development.



***Fig 1.0[software development life cycle]***

1. ***System Requirements***
2. ***Hardware Requirement***
3. **Laptop or PC**

* Windows 7 or higher
* I3 processor system or higher
* 4 GB RAM or higher
* 100 GB ROM or higher

1. ***Software Requirement***
2. **Laptop or PC**

* Python
* Sublime Text Editor
* XAMP Server

1. ***Limitations/Disadvantages***

* The system poses a security risk.
* The user would also require to enter correct data otherwise it will lead to faulty results.

1. ***Project Outcome {Application}***

* Our Online Auction System helps users conduct auctions online easily from the comfort of their homes.

***Reference***

* Zhang and Zhuang (2017) from vol II
* Hong et al. (2018) from vol I
* Wang et al.(2017) from vol II
* [*http://14.99.188.242:8080/jspui/bitstream/123456789/13256/1/15vfsb7038.pdf*](http://14.99.188.242:8080/jspui/bitstream/123456789/13256/1/15vfsb7038.pdf)
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