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# Design of Automatic Food Ordering System

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**ABSTRACT:** In this project we bring forth A Food Delivery Application which can be accessed by the users. It is one of the most emerging fields in the E-commerce industry. The purpose of online food ordering applications is to automate the existing physical structure by means of the help of a software based program and satisfying the requirements, so that their appreciated data/information can be deposited for a longer stage with easy retrieving and guidance of the identical. In this report we would explain the design of an automated food ordering system with real time client remarks from vendors.

**KEYWORDS:** software; application; users; food; Android Studios, etc.

## I. INTRODUCTION

This project is for developing a fast food ordering system using mobile application that will help to improve the existing traditional method and for the backend database there would be Firebase along with the user authentication of the application.

The number of food delivery mobile app startups are growing at a fast pace and competing with the food delivery section of the restaurant market. The customers are being choosy, given the number of options that are available for them in this segment. Initially there was some reluctance amongst the investors to invest in any food related business but this view has changed over the period of time with the realization that there is a tremendous potential for this market sector. Online food ordering is a process that delivers food or take away, from home chefs, local restaurants and other food co-operatives through a mobile application or through a website. This style 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. Customers prefer using the food ordering app over ordering food online. The customer can generate an order without having to explain it to another human being and have the food delivered at his doorstep. The apps are geared to search for local restaurants and the cuisine types. Entire menu is displayed on the app and the customer has to choose from the menu with a click of a button. However the app needs to be downloaded by the customers on their cell phones and register themselves on the app by creating their profile which will have their address and payment information. The payment is normally cashless through a credit or debit card if paid online or in cash against delivery. [2]

Here are a few reasons why we should have a delivery app. Namely:

- Convenience, fast and easy are the demands which customers nowadays wish to have when they are ordering their foods. For example, university students in Kampar are always busy with their school work and therefore they hope to have their meal order without the need to queue up.[1]
- Promotional deals, discounts and loyalty reward points will ensure that the customer comes back for a repeat order.[2]

## II. RELATED WORK

Customers are able to use their mobile device to place their food order in a convenient manner and the staffs of the restaurant are also able to use the mobile device to update the food menu. This system consists of client side and server side. For the client side, customers will be able to view the menu, place order, give rating and real time feedback and checkout from the system. The customer can choose to enable or disable message notification sent by the server. For the server side, the system will be able to let the staff to insert, delete and update the menu. The system also allows staff or owner to send messages instantly to the customers about any food promotion and also update the food order status. Besides, this system also allows the owner to update the status of each of every food order.[1]

The purpose of this research is making an ordering food application based on Android with New Order, Order History, Restaurant Profile, Order Status, Tracking Order, and Setting Profile features. The research method used in this

research is water model of System Development Life Cycle (SDLC) method with following phases: requirement definition, analyzing and determining the features needed in developing application and making the detail definition of each features, system and software design, designing the flow of developing application by using storyboard design, user experience design, Unified Modeling Language (UML) design, and database structure design, implementation an unit testing, making database and translating the result of designs to programming language code then doing unit testing, integration and System testing, integrating unit program to one unit system then doing system testing, operation and maintenance, operating the result of system testing and if any changes and reparations needed then the previous phases could be back.[3]

### III. PROPOSED METHODOLOGY

The target of the project is to give some better methods for A Food Delivery App. All the members agreed to this topic and we planned our project in detail, such as, what should be included, what would be features and functionalities, etc. Everyone collectively come up with new ideas. We also took guidance of our teachers as they helped us and tried to solve our problems. They informed us about the changes to be made. After the discussion phase, we started working on our project. Many problems occurred but we all overcame the obstacles and successfully developed our project.

We would be adding some new features in our project which was a major drawback of other food delivery APP  
Such as:

- There will be only verified reviews of the customers since it was observed that were some reviews which we did not know if it was the truth so we will only show verified review of customers who have ordered from our app.
- It is observed that even if you have to cancel the order within a few minutes they charge the cancelation charges we would be keeping a short time period of 5-10 minutes in which the customer can customize or cancel their order.
- Various times even small stall categories as a restaurant so we would be making some changes in filter part. In filter part we can make a category wise ordering system in which we make three category 1. Restaurants 2. food van 3. Food stalls so that we can help our user to easily find their meal
- We will give a check list to the restaurant to fulfill our criteria and our main focus is on gps location and photo of restaurant so that our users can easily identify that where they are ordering.

### IV. DISCUSSION AND EXPERIMENTAL RESULTS

While planning, all the members came on google meet and discuss what would be the functions might be suitable for our application. Everyone recommended some innovative features and their structures. Once the features were discussed, we disbursed the coding among us. One of us was chosen to the complete coding and database and after accumulating the assigned responsibilities, might further pass on to other members to check the coding part.

Although, due to unexpected instances, we had to discard some features that didn't seem as vital because the now remaining ones. There were also adjustments made for some pages that have been originally meant to be designed in a special manner. The principal person did a part of the coding, collected coding from rest individuals, created database for required sections, completed the project and recorded it.

All the individuals have been made aware about the basic functionalities regarding our project.

There were not any implementations of simulations. Therefore, here are some rough sketches of our undertaking made on Photoshop, being presented as a shape of experimental outcomes.



Fig 1.0

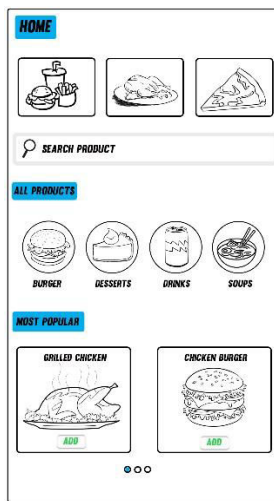


fig 1.2

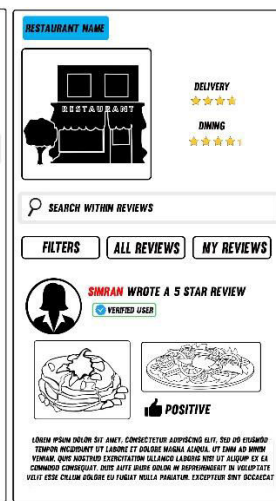


fig 1.3

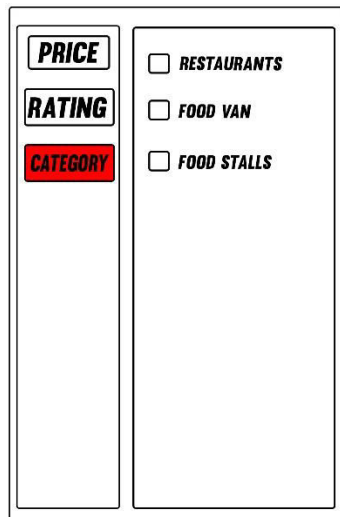


Fig 1.4

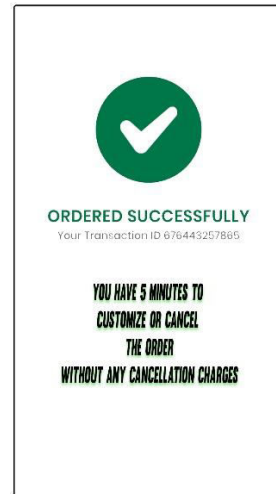


fig 1.5

#### IV. CONCLUSION AND FUTURE WORK

While new restaurants are coming up and technology being the need of the hour, India is dominating delivery market of the world. Investors realize that food is intrinsically has repeat business value and the business models are highly scalable and capital efficient. There has been a 150% growth in the online food delivery business in the last year. Most of the players attribute this growth to 3 factors: internet penetration, smartphone gaining the status of a necessity in life, and the restaurants being forced to explore delivery options to increase their business in the face of competition. The food delivery business also caters to the customer’s expectations –wide choices of restaurants, ease of ordering, convenience of having the food delivered at home and reduced cost.[1]

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