Food Ordering Application for Sheroes Hangout Café

Siddhi Suryavanshi[1], Shraddha babar[2], Rishab Singh[3], Rohit Barve[4]

[1]Student, Dept. of IT Engineering, Vidyalankar Institute of Technology, Mumbai, India
[2]Student, Dept. of IT Engineering, Vidyalankar Institute of Technology, Mumbai, India
[3]Student, Dept. of IT Engineering, Vidyalankar Institute of Technology, Mumbai, India
[4]Professor, Dept. of IT Engineering, Vidyalankar Institute of Technology, Mumbai, India

---***---

Abstract - *To provide a platform for Sheroes Hangout Cafe for managing orders online. Sheroes Hangout Cafe is run and managed by Acid Attack Survivors. The cafe aims to increase awareness of acid attacks and empower acid attack survivors. There are currently two cafe locations in Agra and Lucknow. The purpose of this project is to encourage and help the Acid Attack Survivors in their work. This will be the first application for their cafe. In this project, we have planned to make a food ordering application for Sheroes Hangout Cafe to manage their food orders online. Through this application customers can order food from the Sheroes Hangout Cafe and make a payment before going to cafe and will have ready order once they reach the cafe. Because of this feature the customer can save his/her time. Customers can browse the menu card of Sheroes Hangout Cafe by using this application. By using the feedback feature customers can give their feedback through this food ordering application.*

Key Words: **Android, Food, Acid Attack Survivor, Sheroes, Feedback**

1.INTRODUCTION

The Food Ordering App helps the business owners showcase their menu under different categories. Customers just need to select, enter the quantity and place order. This app gives an opportunity for restaurant businesses to skyrocket their business.Food delivery apps have spurted in magnitude and popularity since COVID-19 hit our home turfs. With social distancing becoming a solid norm, such apps are the need of the hour. They play both the fields; it works for consumers as it can't get better than food being delivered to your doorstep. To restaurants, it means an expansive reach and more business through such delivery platforms. The pandemic has really turned employees of such organizations into warriors of the modern world.We will be making an Android Application for Sheroes Hangout Cafe. The application will help customers of the cafe to give online orders. Also it will create awareness about the Sheroes Hangout Cafe. Customers of the cafe will save their time by ordering food before visiting the cafe.

This Food Ordering Application will be consisting of three main parts listed below:

1.   To aware people about the Sheroes Hangout

2.   To place order online/ Pre-order/ Book a table

3.   Customers Contribution

2. LITERATURE SURVEY

2.1 Food Ordering Android Application by Kajal Gupta, Abhishek Kadam, Neha Keni, Prof. Meghali Kalyankar [1]

In this paper, they planned the automated food ordering system for the restaurant. The system is compared to earlier food ordering traditional methods such as traditional pen and paper methods etc. They have deliberated advantages of the proposed system over those earlier methods. The segregating factor for the proposed methodology is its adjustable efficiency which comes from the technology it uses.

Concepts we referred - One step registration with android application. Instant notification of the order, when the order is confirmed. Advance ordering. Various secured payment methods.

2.2 Food Ordering System For Restaurants Using Android by Prof. Pravin Adivarekar, Amogh Dalvi, Nisha Yadav [2]

This paper aims at replacing the traditional food ordering system in restaurants with tablet food ordering. The customer, on entering the restaurant and occupying his desired table, will be welcomed with a tablet fixed at his table. He will then select his desired meal and his confirmed order will be sent directly to the kitchen. Once his meal is ready, it will be delivered by the waiters to the corresponding table. The customer can post his feedback depending upon his experience. The customer's login credentials and order history are saved in a central database. This solution speeds up the food ordering process and is also an attractive, error free method thanks to the digital aspects involved.

Concepts we referred - Searching Item, Offers for Customer

2.3 SMART FOOD ORDERING SYSTEM FOR RESTAURANT by Pragati Singh, Nimesh Tembhekar, Kunjal Gurve, Prof. Mrunmayee Rahate [3]

The project paper aim is to develop a computerized and mobilized food ordering system that can be used to revolutionize the traditional ordering system which is currently carried out in majority of the food and beverage industries. The accustomed system that is being used by

---

most of the food and beverage industries is the manual ordering system which means all work and procedures are recorded manually and it also includes huge amount of paper work that is not effective and efficient. This causes the business to encounter trouble regarding human error due to the huge amount of manual work that is being operated in business routine.

Concepts we referred - Billings, Control orders and service , Helps manager to control each part of the restaurant.

4. PROPOSED SYSTEM

A flowchart is a diagram that depicts a process, system or computer algorithm. They are widely used in multiple fields to document, study, plan, improve and communicate often complex processes in clear, easy-to-understand diagrams.

In the admin module, admin can manage the items of menu which were added. They can also manage the payments. Offers are really a eye catching thing now a days to attract someone to the products so admin can add and manage the offers. When admin confirms a particular order the notification will be sent to the customer. And restaurant can also send the update of a particular order that it is cooking or ready.
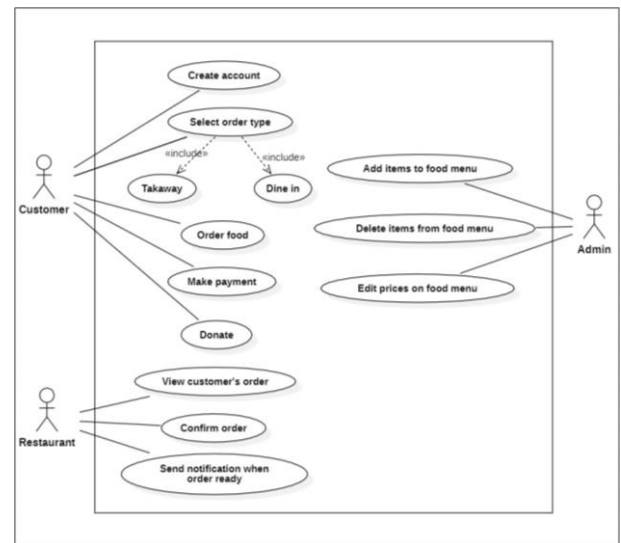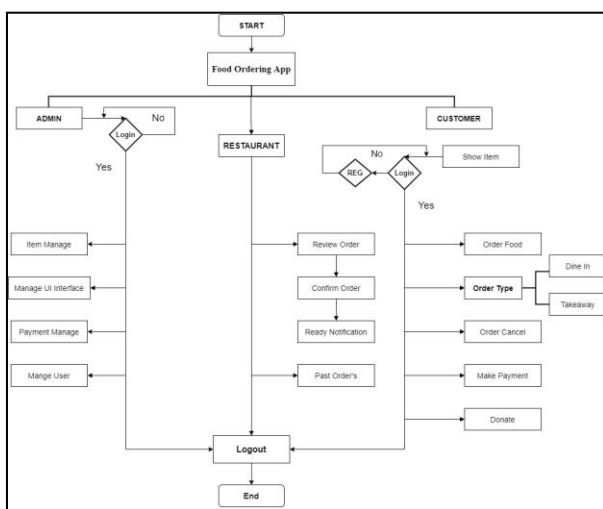

Fig -1: Flowchart

　　　Beside from admin, a customer can give his or her review regarding to that particular food item or the service. So that the cafe can improve themselves. Customer can see the past order's and can repeat the same order again. They can see the menu items category wise. Bestseller food item will be shown to them based on reviews. Once the payment is done customer cannot cancel an order. There is only two order types one is takeaway and second is dine in. Customer can see the available tables and have to select from them only. They can also donate for the cafe as it is ran by Acid Attack Survivors.
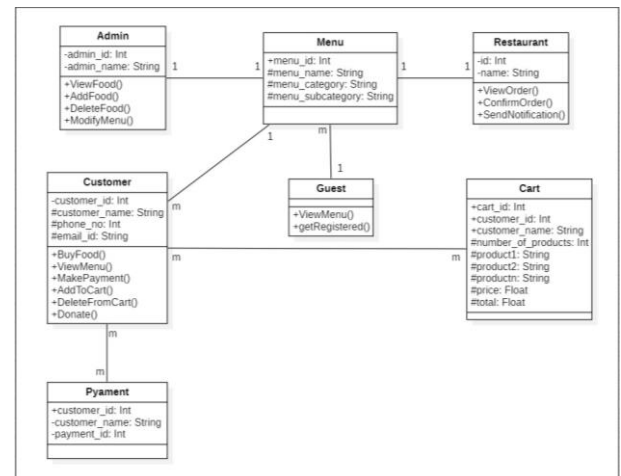

Fig -2: Use Case Diagram

Fig -3: Class Diagram

5. METHODOLOGY

We researched about Sheroes Hangout Cafe and also about the application they already having. We found that the application that they is a communication platform and not the food ordering application. Then we decided to make one for them to help the acid attack survivors in what they are doing to get confident. We approached the Sheroes Hangout Cafe and told about idea, they agreed to it. Also they gave their inputs about making of Food Ordering Application for their cafe.

After all the discussion we decided different modules for the application such as Login, Signup, Introduction of the cafe, etc and prepared flowchart of how we will be proceeding with making of the application. We together planned to make a prototype for the food ordering application and will have a discussion on what are the changes we should make? and which parts to keep as it its?.

After proper UI prototype we will proceed for the coding part of the application by using the technologies that we have decided. We will be using android studio and firebase database for the food ordering application. As soon as we complete the coding part, we will test the application whether it is working properly or not.

On successful testing and debugging of the food ordering application for Sheroes Hangout Cafe we will deploy it and it will be ready to use for the customers of the cafe. Also we will be having a watch on the traffic that will come on the application to avoid any errors.

6.   ANALYSIS

6.1 Analysis

The waterfall model is a sequential design process, often used in software development processes, in which progress is seen as flowing steadily downwards (like a waterfall) through the phases of Conception, Initiation, Analysis, Design, Construction, Testing and Maintenance. [4]
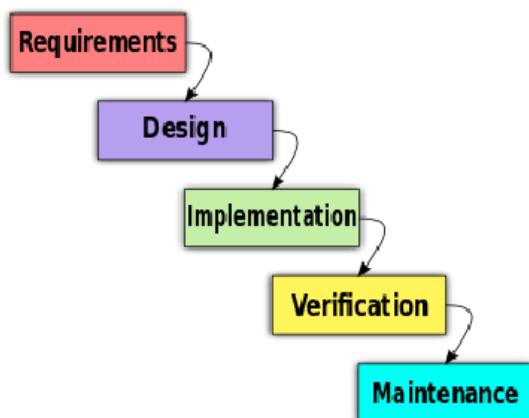

Fig -4: Waterfall Flowchart

1) It allows for departmentalization and control. A schedule can be set with deadlines for each stage of development and a product can proceed through the development process model phases one by one.

2) All the requirements are documented beforehand.

3) The waterfall model progresses through easily understandable and explainable phases and thus it is easy to use.

4) It is easy to manage due to the rigidity of the model – each phase has specific deliverables and a review process.

5) In this model, phases are processed and completed one at a time and they do not overlap.

6.2 Feasibility Study

This is an evaluation and analysis of the potential of the proposed project which is based on extensive investigation and research to support the process of decision making. It assesses the operational technical and economic merits of the proposed project. The feasibility study is intended to be a preliminary review of the facts to see if it is worthy of proceeding to the analysis phase. From the systems analyst perspective, the feasibility analysis is the primary tool for recommending whether to proceed to the next phase or to discontinue the project.

1. Technical Feasibility

➢ This assessment is focused on gaining an understanding of the present technical resources of the organization and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the needs of the proposed system. The systems project is considered technically feasible if the internal technical capability is sufficient to support the project requirements.

2. Operational Feasibility

Operational feasibility is the measure of how well the project will support the customer and the service provider during the operational phase. It is dependent on human resources available for the project and involves projecting whether the system will be used if it is developed and implemented.

3. Economic Feasibility

This assessment aims to determine the positive economic benefits to the organization that the proposed system will provide. It typically involves a cost/ benefits analysis and it's the most frequently used method for evaluating the effectiveness of a new proposed system.

4. Schedule Feasibility

It is the measure of how reasonable the project time table is or the deadline is reasonable or not. During the lack of time or the time become mandatory, we must finish the project with in a given time period. It mainly addresses : Can the project really be completed in the given period of time

7.   CONCLUSIONS

We aim to provide a platform for the Sheroes Hangout Cafe to manage their orders online and save their customer's time by providing early order feature. Also to make people aware about the café through this android application. We also want to support the Sheroes Hangout Café during this COVID-19 situation. We also aim to give support to Sheroes Hangout Café by providing a contribution feature in the android application so that customer of the café will be able to contribute to the cafe by donating money, by becoming a volunteer or by any means.

The online food ordering system is one of the most profitable marketing strategies for restaurant businesses. Online food

ordering platforms also prevents missed orders due to busy phone lines or a lack of resources to monitor the phone. This Food Ordering Application can be proper marketing model for the Sheroes Hangout Café. Also we can add feature of membership of the café for the customers so that they can get different services than they get on regular basis. It can be used by their Agra branch as well. The application can be integrated with a Chatbot feature, if the customer has any query he/she can put their queries in the Chatbot and it will give quick answers to their queries. Also we can add feature in the admin panel like Performance monitoring, Reports and Analytics, Overall earnings, etc. After successful implementation of the android application as well as testing, we can go for making of an application for ios users of the Sheroes Hangout Café.

REFERENCES

[1] Food Ordering Android Application by Kajal Gupta, Abhishek Kadam, Neha Keni, Prof. Meghali Kalyankar from Department of Computer Engineering, G. V. Acharya Institute of Engineering and Technology, Mumbai, India. International Research Journal of Engineering and Technology (IRJET).

[2] Food Ordering System For Restaurants Using Android by Prof. Pravin Adivarekar, Amogh Dalvi, Nisha Yadav from department of Computer Engineering, SSJCET, Asangaon, India. International Journal for Research in Engineering Application & Management (IJREAM).

[3] SMART FOOD ORDERING SYSTEM FOR RESTAURANT by Pragati Singh, Nimesh Tembhekar, Kunjal Gurve, Prof. Mrunmayee Rahate from Electronics & Telecommunication, Jhulelal Institute of Technology, India. INTERNATIONAL RESEARCH JOURNAL OF ENGINEERING AND TECHNOLOGY (IRJET).

[4] Waterfall Model by Author Lakshay Sharma, Full Stack Test Automation Engineer