

# **An Android based Advanced Business Growth System for Food Industry**

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*Abstract*— Everybody appreciates a decent supper, some need to eat healthy, some need to eat for taste and some need to eat for the smell that they can't help it. This paper will help to introduce an advance system which fulfill all the requirement of the restaurant owner as well the consumer who wants to have nice and healthy food, using this system the restaurant owner can manage all the related stuff as managing the Online order, Table Reservation, Reviews etc. And This paper will help the consumer too where the system will provide facility to find the best restaurant and gives option to order online, reserve a table, give reviews and many more. At the same time, as I headed out to places searching for the best places to eat, I understood that there is a ton more that buyers like me search for. They search for similitude too uniqueness in the climate, smell and taste. They search for cordiality of the staff that serves them on the grounds that they need to feel at home, they search for the estimation of the supper and not simply the aggregate expense, they search for a spot where their family can have a decent discussion without getting occupied by noisy sounds etc. We want to provide the service which can help to the restaurant owner and the consumers who look for the good food, it will be very easy using the proposed system. This paper helps in building an application that will help to the safe where they can directly communicate with the consumer and they can get chance to show their best and they can also get the direct feedback from the consumer.

**Key words:** Advanced Business Growth System, Food Industry

## **I. INTRODUCTION**

This paper will simulate to build such system where it will provide facility to the food industry as: They can manage online order in faster way which has given from their web site, this facility will help them a lot where they can grow their business.

Another Thing is the “Online Table Reservation” which can be given from the website and the restaurant manager can see in the application,

This paper introduces some other facility as: “Customer Reviews” where consumer can give the reviews about the food which helps the food industry to improve the food quality according to the reviews.

It also introduces the Monthly Graph Report where the restaurant manager can have a look of their progress report based on the given Customer Reviews.

This paper defines the working flow of the system where the system will provide better User View which will communicate to the server to get the data using HTTP Asynchronously which will pass the request to the Web Service i.e Tomcat Server, from here it will get the data from the SQL Server and gives back the response as SUCCESS or FAILURE,

If the response is success then it will welcome the user to the Home page or if response is failure then it will challenge for the username and password again.

This paper is part of the solution that enables Restaurant Business Owners to Collect review data from

Customers. This also provides tools such as: Online order management, Table Reservations with viewing and creating reservation with a single touch, reporting on customer Spend Pattern, Visit Pattern and Complete set of canned reports that help the restaurants manage their business efficiently and cost effectively.

## **II. LITERATURE SURVEY**

Currently in modern scenario, the food industry follows the old way to keep the record and manage the reviews in file system or in excel sheet which has following disadvantages:

- 1) Separated and Isolated Data: To settle on a choice, a client may require information from two different records. In the first place, the documents were assessed by investigators and developers to focus the particular information needed from every document and the connections between the information and after that applications could be composed in a programming dialect to process and concentrate the required information.
- 2) Duplication of information: Often the same data is put away in more than one document. Uncontrolled duplication of information is not needed for a few reasons.
- 3) Information Dependence: In document preparing Applications, documents and records were depicted by particular physical organizations that were coded into the application program by software engineers. On the off chance that the configuration of a certain record was changed, the code in every document containing that arrangement must be overhauled. Moreover, guidelines for information stockpiling and access were built into the application's code.
- 4) Trouble in speaking to information from the client's perspective: To make valuable applications for the client, regularly information from different documents must be joined. In record handling it was hard to focus connections between separated information with a specific end goal to meet client prerequisites
- 5) Information Inflexibility: Program-information interdependency and information disconnection, constrained the adaptability of record handling Applications in giving clients specially appointed data demands.
- 6) Incompatible file formats: As the structure of records is inserted in the application programs, the structures are reliant on the application programming dialect. The immediate contrarily of such records makes them hard to process mutually.
- 7) Information Security: The security of information is low in record based Application in light of the fact that, the information is kept up in the level file(s) is effortlessly available. For Example: Consider the Banking System. The Customer Transaction document has insights about the aggregate accessible equalization of all clients.

- 8) Poor information displaying of genuine: The document based Application is not ready to speak to the perplexing information and interfile connections, which comes about poor information demonstrating properties.

### III. PROPOSED SYSTEM

Proposed system provides business growth system to help the food industry to grow their business in the food market, this paper adds the value in the proposed system as:

– Online Oder, Online Table Reservation, Reviews

Advantages of the Proposed System: There are several advantages of the Customer Connect as:

- 1) Separated Data: The Information of the customers or orders always be separated from the other data whenever it needed they can pick it up and use it for the customer information.
- 2) Table Reservation: Table Reservation provides facility where admin or restaurants manager to reserve the table for a particular customer or group of customer to avoid the confusion for the user. It provides facility for new Table Reservation too.
- 3) Online Order: We provides facility to the customer where they can order online for the food and restaurants person will be updated immediately, the admin can see all the order list where admin can perform several operations which includes:
- 4) Reviews List: We provide the Review system where the customer can give the reviews about the food and restaurant services and then the restaurant person can see all the reviews in the application with Reviewer information including review Ratings and comments. The Restaurant can improve the service or food quality according the reviews given by the customers.
- 5) Reports : We provides the graphical month wise progress reports to the restaurant based on the reviews given by the customers and based on the visits of the customers.
- 6) Message to Leads: We give an option to the restaurants person where they can send the message to their leads about the particular reason; the leads will get the Email or text Message in their mobile phone.
- 7) Problem Report: The restaurants person can send the Report to the CuisineLinks India pvt lmt if they are facing any problem with the application(Customer Connect)
- 8) Check In Module: The Customer do Check in When the customer enters to the restaurant, if this check in is first time for the customer then it pushed to the Signup and it counts 1st check in after signup, but if the check in is not 1st time then it gets the rewards as per restaurant plan. It has a sub Module:
- 9) Rewards Module: Customer gets rewards after every success full check in.
- 10) Sign Up: If the user is new then the app will take them to the Sign Up Module, by entering the name, email, phone number information etc.
- 11) Customer Review: After finishing the food app will ask you to give the review about the food and services of the restaurant.

### IV. TECHNIQUES (AN OVERVIEW)

The paper focuses on the application which provides better mathematical queries and algorithms to understand the system. It is made to implement the algorithms in objects and animate them according to the desired query. This helps them to learn those difficult algorithms easily and make them interesting with the help of layers, graphs and animations. So the main focus of this paper is to make such a paper which helps the end users to grow their business in food industry.

This application captures the information and stores in the database and can be organized in various ways included tagging and hierarchical trees, which allows you to access in easy way, The goal is to collect information relevant to a specific research project in the one place, so that it can be found and accessed again quickly.

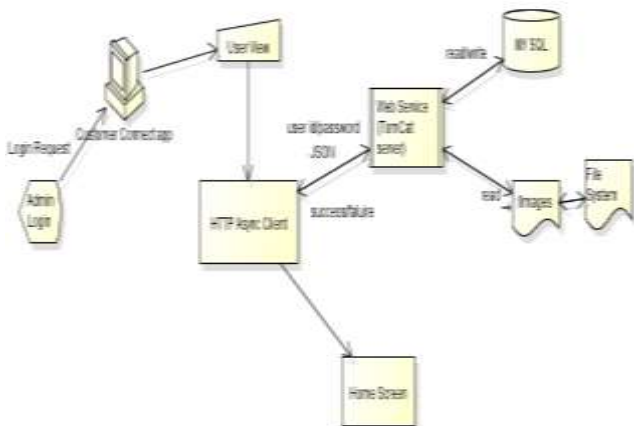
- 1) User interface: The user interface for customer connect is most helping to the user where they are feeling happy while using the interface, before customer connect there was no such application where the user can enjoy the interface while using the application, while our development we asked to the unknown to feel the interface and we had the great feedback from them, at the time many users they came to us and appreciated our work for the interface, we provide the simple and user friendly interface that helps user to feel great about the application while using it.
- 2) Processing: Monitoring allows businesses to simulate the actions of thousands of users to application and experience how it responds. Performance monitoring tools send out alerts when the new data or any reservation comes or having any problems , which allows the admin to correct issues faster. Application captures the data and displays the report in a graphical format. Reports can be saved locally and in cloud as well.
- 3) The application has to provide the correct information under any situation, In case of any error in input or operation, system should reflect proper message or give proper helping information.
- 4) Maintainability: The product will be used for a long time, it must be easy to maintain and easy to incorporate future changes. The design if the system should be module based and changing the design of the one module should not affect the proper operation of the other module.
- 5) Portability: The application should be portable so as to can run in any device on any platform with very little or no modifications, Availability: The application is available for the user experience at 24/7.

### V. IMPLEMENTATION

Systems thinking present a different aspect through which to understand the complexity of the world. From parts to the whole: With any system, the whole is different from the sum of the individual parts; this application starts after understanding the whole complexity of the system. Object and its Relationship: Every Object is related to the other object to communication of the information where they exchanges the restaurant customer information according the need of the restaurant person, this information is stored

in the cloud and it can be access through the app. The complexity of the information is to manage it in to the particular order and it can be access easily. From Quality to Quality: The complexity of the application is to analyzed where is provide the quality of the information and it is not the duplication customer information.

- [4] Android●/ Referred Books: Programming: The Big Nerd Ranch Guide (Big Nerd Ranch Guides), By: Bill Philips & Android Design Patterns:
- [5] Interaction Design Solutions for●Brian Hardy Developers, By: Greg Nudelman



The Mathematics logic used to build the proposed system as:

In modern mathematics, a function is defined by its set of inputs, called the domain; a set containing the set of outputs, and possibly additional elements, as members, called its co domain; and the set of all input-output pairs, called its graph. Sometimes the co domain is called the function's "range", but more commonly the word "range" is used to mean, instead, specifically the set of outputs (this is also called the image of the function).

A function  $f$  from  $X$  to  $Y$  is a subset of the Cartesian product  $X \times Y$  subject to the following condition: every element of  $X$  is the first component of one and only one ordered pair in the subset.<sup>[4]</sup> In other words, for every  $x$  in  $X$  there is exactly one element  $y$  such that the ordered pair  $(x,y)$  is contained in the subset defining the function  $f$ . This formal definition is a precise rendition of the idea that to each  $x$  is associated an element  $y$  of  $Y$ , namely the uniquely specified element  $y$  with the property just mentioned.

## VI. CONCLUSION

The different modules of the project are complete enough to manage and handle the overall process of managing their various customer information in a single place with the most sophisticated tool anywhere on the application. Tool help in- Predicting the state of mind of the restaurant and their customers. The navigation paths followed by the visitors.

Knowing the likes and dislikes of the visitors by tracking their page views. The way marketers can adopt to change and hence improve their strategies and campaigns to reach the consumer more effectively.

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