

Automated canteen System

Komal Kumari, Atif Ahmed, Simarjeet Singh

Dept.: B.Tech CSE Galgotia's University Greater Noida, India

Dept.: B.Tech CSE Galgotia's University Greater Noida, India

Dept.: B.Tech CSE Galgotia's University Greater Noida, India

Submitted: 01-06-2021

Revised: 14-06-2021

Accepted: 16-06-2021

ABSTRACT –The project titled “CANTEEN AUTOMATION SYSTEM USING ANDROID” is an android application that allow client to enlist online, can examine and client can select the thing from the shown E-menu and hence the client can utilize online canteen android application. After selecting nourishment thing from E-menu show by the client it'll specifically see on the screen on canteen to the chef. The application is created utilizing the android studio and the well performing in great internet speed. The canteen system is employed for reading the food items in the application. This application helps that when there are waiting queue the waiting is diminished and we are able to say that the clients are invalidated. The benefits of this are often regularly that if there's a rush within the canteen at that point there'll be alter that the server is attending to be inaccessible and so the client can specifically arrange the nourishment to the chef on-line by the utilize of this application. The client will have username and watchword, by utilizing which they will login into the framework. User can give feedback on the food items and the services provided by the canteen staff members in online ordering.

Manual system includes paper run through maintaining different documents and manuals. Keeping up basic food items in canteen within the records and manuals is filled with hazard and dull prepare. Counting a framework illustrating to utilize Web innovation continuously as abilities and certainty develop, the venture appears the course from adjusting materials to putting together up a web environment.

These days people groups don't have time to spend inside the canteen by fair there and holding up to return their arrange. Numerous clients visit the canteen amid their lunch break and break in arrange that they have confined time to eat and are accessible back to their particular office and colleges. The waiting in the queue will be reduced.

So, this program makes a difference them to spare parts of time and arrange nourishment at anything point they have without holding up during a line.

I. INTRODUCTION

Online commerce, moreover said as e-business or electronic commerce, alludes to exchange and in this way the exercises that been performed by clients and dealer over the online. the strategy is kind of comparative with typical trade, but the contrast the online commerce is encouraged by the web-based advances. Electronic markets have the preferences to encourage more benefit compared to the conventional way since the people groups these days are more interested to attempt to shopping online instead of progressing to the shop. By doing online commerce, the stock is regularly promoted all over and it'll diminish the operation taken a toll. The tests of online commerce that are eBooks, nourishment requesting, flight ticket, inn booking et al.

Online food ordering requesting frameworks are one of the first well known online businesses items. Different sort of nourishment can presently shop through the internet like nutriment, pastry kitchen, vitamins et al... Clients able to see and select their favourite's nourishment from the list increment cart, select their favourite's food item from the list increment cart, select the conveyance sorts, make instalment and hence the arrange is total.

In any case, most of the winning online nourishment requesting frameworks still doesn't have the notification and delivery services features which are important for customer satisfaction.

II. LITERATURE REVIEW

In Many canteens there is storing of their food items in canteen in way manually. They require gigantic number of customers day by day. they require sizable number of buyers, and require the assistance of a few highlights so as that they will keep up and store the precisely.

1.By the manual framework the section that we get are client palatable and efficient.

2.The involvement of requesting in most fast-food canteens isn't charming for patrons.

3.Customers ought to make long line some time recently putting the order and when the arrange is set,

they have to be go to close the client until the arrange is ready.

4. Whereas performing online shopping, numerous of the clients will spend their quality time into perusing other client audits in case they're accessible. Another inconvenience is execution that nourishment canteen ought to protect of their standard operations and keep with the first-rate of their item and administrations no matter what extent swarm is found in canteen be that as it may they ought to watch out of execution as legitimately as fine.

Be that as it may, that there are a few issues concerning the ordinary much appreciated to arrange nourishments in canteen.

An overview appears that:

- 80% of shoppers and buyers do check and accept studies of the individuals.
- 50% accept evaluations of the internet items they have to be shop for.
- 30% of the clients compare the items surveys with others items surveys to encourage a dependable and dependable thing. Its clearly buyers charge and the input given by other clients as do the other apps that offer such items. The APP are a store of client proposals which are important & imperative sources of the printed nourishment things in canteen. It implies individuals make their choice of whether to encourage the items or not by examining on those items.

REQUIREMENTS

Their will be the requirement of various open-source tools for user and the staff building server. Thus, this APP would coordinate with the user through advance and can be seen through server calculation. Application is accompanying. Application is required to be user friendly and the user screen is required to be much interactive for the increment of the business side and growth of the functionality of use of this application.

Canteen Side Subsystem:

Canteen side is required the screen where staff can see the feedbacks, the order placed and the requirements by the user. The payment can also be seen in the admin side of application.

Client-Side Subsystem:

This APP application is for the clients, that's people who have record or who require the application for that a client can do that make a record, sign in for activities. The client side of the system is an application with a APP that's consolidated into a nourishment requesting application.

The customer can see the menu can select the food and then can pay and can give the feedback.

The customer can have many benefits like the food ordering as per their likes and dislikes.

Not waiting in the queue for so long.

Can give the feedback of their likes and the dislikes according to the changes that they want can be made.

This application gathers the nourishment things in canteen from clients, explores a number of exercises of the clients, and outfits the affiliation with the laborer.

This application is the client-side interface of the Nourishment Recommender, so it does prohibit the functionalities of the requesting nourishment and so on

● Receptiveness

The framework ought to be extensible to ensure that it is helpful for a full timeframe.

● Security

Record food items in canteen of an application ought to be kept in safe.

Email Authentication and verification for both client and admin side.

Plan imperatives

● Asking suggestions

The client-side application ought to allow client to request proposition physically, and collaborate with the specialist to encourage suggestions.

● Requesting Food

The user can see the menu of the food in the screen and can select the food and can move further. The user have the option to reselect or delete the food from the cart.

It ought to have given the alternative to to client to arrange nourishment and reselect the food.

● Paying Request

When the user will select the food and will proceed to order the food they will get the pay option can the user can pay with various method like Paytm, card and more.

The payment option is required to have various option to pay by the user.

● Exploring client

The system will take after the participation of clients with nourishment requesting app things., and send these requests back to the worker.

● Show proposals

The application ought to appear the recommendations that are gotten from the laborer to the client in an fitting way by giving a APP.

Worker:

The laborer side system will hold the entire data in a chart nourishment thing in canteen set, and ought to keep in mind all convenience to perform exercises for this nourishment things in canteen set, get requests from the clients, evaluate, make and send recommendations and so on Handle recommendation demands

The specialist application will acquire and bargain with requests for proposals.

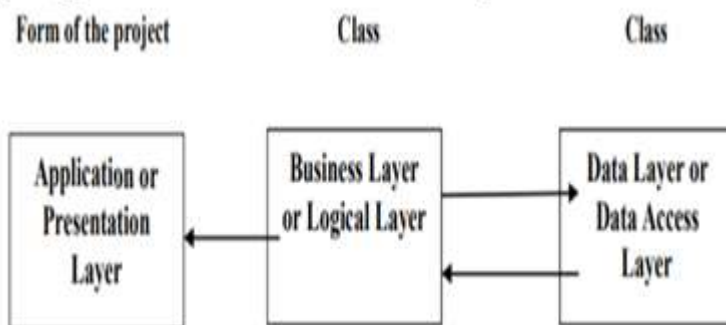
●Store assessments

The specialist application will get and store.

The Store will have all the items of the food that the user can look for and can order as per their requirements.

Architecture Diagram for Proposed Method

Planning is that the foremost vital and thus the foremost viable work whereas computer program advancement. Without a redress plan, it's exceptionally troublesome to create an fitting program that satisfies about all client requests. Hence, overseeing planning portion in a enterprise may be a basic movement. A architect must make beyond any



Logical Layer - Indeed in the event that an online location can inquire the information get to layer specifically, it moreover goes through another layer as called the commerce layer. This layer may be a course which we utilize to compose down the work which works as a go between to exchange the information from Application or introduction layer food items in canteen layer. Within the three-tier design, we never let the data get to layer to interact with the introduction layer. This layer to boot a category where we announce the variable just like the areas of the food things in canteen base which may be required for the apparatus and make the properties so that we are going get or set the data utilizing these properties into the factors. These properties are open in arrange that we'll get to its values. One of the best

doubt that the arranging made by him are regularly effortlessly caught on by the all the individuals of creating a group. Having a appropriate plan will permit coder to actualize of the framework improvement arranging legitimately. Hence, we are working on this field knowing legitimate dealing with and administration of nourishment things in canteen base and its devices.

TIER ARCHITECTURE:

There are the different classes gotten from the trade lesson chart are categorized as takes after:

There are three layers in 3-tier architecture as:

Presentation Layer - the internet location or windows shapes application is named the introduction layer. The presentation layer is that the foremost imperative layer fair since it's the one that everyone sees and employments. Indeed, with a well-structured trade and nourishment things in canteen layer, in the event that the introduction layer is gathered ineffectively, this gives the clients a destitute see of the framework. The introduction layer is that the shape where we plan utilizing the controls like textbox, names, command buttons etc.

reasons for reusing rationale is that applications that start little more often than not develop in usefulness. For occasion, a enterprise starts to create an online location, and as they realize their commerce needs, they afterward arrange to include a sensi

Two roles have been presented by business layer:

- client application
- server component
- Client Application

This APP application is for the clients, that's people who have record or who require the application for that a client can do that make a record, sign in for activities

This application is the client-side interface of the Nourishment Recommender, so it does prohibit the

functionalities of the requesting nourishment and so on

- Server Component

Canteen side is required the screen where staff can see the feedbacks, the order placed and the requirements by the user. The payment can also be seen in the admin side of application.

Example from Business Layer- The Trade layer has capacities of which takes the parameters from the occurrence given inside the introduction layer. As the client inputs the data values, comparing capacities are called inside the commerce layer which is advance passed on through the information layer where comparing strategies are called and so the nourishment things in canteen is been overhauled. The business layer is the course within the layer where coder type in the capacities which get the data from the machine layer lesson and passes through information get to layer.

Food items in canteen layer - The key component to most of the applications is the nourishment things in canteen. The nourishment things in canteen has ought to be served to the introduction layer by one means or another. The nourishment things in canteen layer may be a partitioned component whose sole reason is to serve the data from the nourishment things in canteen base and return it to the caller. This layer in addition a category which we utilize to encourage or set the data to the nourishment things in canteen base back and forward. This layer as it were interatomic with the nourishment things in canteen base. We type in the data base questions or utilize put away strategies to get to the nourishment things in canteen from the nourishment things in canteen base or to perform any operation to the nourishment things in canteen base.

III. RESULT

To compare the implemented system this is the best android based digital technique that will provide with the best result. This android application takes very low memory, the memory required is less, only 4Mb is required. This application uses many technology, open source technology like, java, android studio, Html, java script, sql, My sql, these are open sources technology so reduces cost. This application can take customer feedbacks, customer can call the canteen staff and this application becomes much interactive for the user. This this is beneficial in business growth.

IV. CONCLUSION

By the implementation of this android application, it atomizes the canteen management ordering system and the customer can give their

feedback on the application accordingly. This android application is convenient, APP is friendly, it is effective and we can even say straightforward better functionality of application. This application will be providing quality of the service as well as customer needs. We can say overall conclusion, this application is a tremendous canteen automation system for the cafeteria or canteens, apply by using the Android studio and some technology. This application will have server free for both the side on the client as well the customer side. Future enhancement can even be done. In future, better work can be done by applying payment options to accept payment through various options like Paytm, credit cards, Phone pe, debit cards, google pay, etc. After taking the experiences of the customer this application can further be modified according to the feedback and the need as per demand.

REFERENCES

- [1]. Ashutosh Bhargava, Niranjana Jadhav, Apurva Joshi, Prachi Eke, Prof. Mr. S. R Lakhani Department of the Computer Engineering, GES's RHSSCOE, "Digital Ordering food System for the Restaurant Using Android" in the journal [IJSRP], Volume 3, Issue 4, April 2013.
- [2]. Riya Jadhav, Priyanka tele, Sneha Kordei, Varsha Chavan Computer Department, Pune University, Isnapur, "Implementing Digital Restaurants and Inter Restaurant Using Smart Phones" in [IJCSMC], Volume 4, Issue 2, February 2015.
- [3]. Shwtaa Ta pure, Madhura Joshi and Priyanka Shankar, in the Computer Science of Engineering, and Pune's University, "Automated system Food Ordering " in IJCSMC, Volume 3, Issue 2, February 2013.
- [4]. Kirti Bhanadge, Dheeraj Ingale, Tejas Shinade, Reashma Totaare Neeraj Solanki, the Information Technology of Engineering, in AISSMS, from Pune, "A Proposed System Based on Food Ordering System Using Android Application" in Journal of Research in Computer Science & Technology [IJARCST], Volume 3, Issue 1, Jan-March 2015.