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Restaurant Booking and Ordering system from DineZone Application

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ABSTRACT

The Dine Zone presently runs a manual reservation system and as customers at eager to notice a handy application for reservation of tables or the other services to avoid physical walking to the building or contacting by decision or reserving through a middle man. Current analysis was aimed to style a client/server application for table reservation and on-line booking system. DineZone which will affectively improve their edifice table reservation system so as to supply direct access of each user to the management. it's given the advantages of effective booking passageway or to carry their accessible table with holding up through associate mechanical man application. Dine zone concerned the utilization of 2 applications related to one another, and concerned the utilization of 5 modules that are the reservation, the order exclude your order, gallery and find in grips with North American nation. the foremost goal of this task was to alter the executive representative of organization of a edifice to deal directly with the purchasers. additionally, it will place client's requests to find free tables as indicated by their own want of specific needed range of seats in his alternative space. This application will assist to avoid holding up time pay at the edifice. this method is alter for supporting purchasers and have the capability to retrieve four pages/sec. we have a tendency to utilised information to accomplish current task to trot out the historical background of the reservation and client's records. consumer will see the history and conjointly likewise delete, share and replica knowledge. The administrator will sustain the time-table of ordering things and foods. Dine Zone will enhance recognition of edifice among their meant customers plus speedy and direct service availabilities.

KEYWORDS: Android, Mobile Application, Table Reservation, Food Order, Table Order, Hall Booking Customer, Hotel Management

1. INTRODUCTION

Dine Zone that applies in an exceedingly edifice table reservations profit. Dine Zone concerned the utilization of 5 modules that area unit the reservation, the order deduct your order, gallery and obtain in grips with North American country. Manual table reservation system area unit ending up increasingly in well-known restaurants as currently a day's folks are becoming into digital era of reservation of restaurants, and provider area unit considering whereas to settle on a digital system of booking. sometimes the edifice reservation system has to be compelled to offer instruments to arrange and run your edifice appointments adequately in speedy and economical ways that. a good table administration implies that a edifice will expand the potential utilization of their lounge space and so ought to build advantages and for suppliers. A table reservation system for any edifice ought to have full perceivability and management of their seating plans with a full graphical read, which will be accessed by the shoppers at a selected date and time by sitting at anywhere through use of mobile application. The administrator may be preserved the main points of ordering tables and foods.

1.1 Objectives

The key objective of current project was to permit the management administration and staff of a edifice to grip the shoppers to put their orders and to seek out free tables consistent with their needed range of seats. Dine Zone app can change the user to access and manage the arrangements of table and food. the final objective of Dine Zone was to make up a reservation system for table reservation to help employees with finding basic problems with their manual reservation system for instance utilization of your time, money and vulnerability.

1.2 Specific objective

- In explicit the projected system aims:
- Easy in an exceedingly hurry career.
- 3)To reduce the live of your time to and toil utilization by the consumer to save lots of.
- Great for a second agone reservations.
- To enhance the correspondence between the client and therefore the administrations and limit the season of requesting.
- This application is created basically to produce an indication for applicable consumer versatile cooperation.

2. EXISTING SYSTEM

Everything depends upon paper and there's no machine-driven system for keeping the records in eating place. The menus that square measure accessible on the eating place is paper primarily based. The request that has taken by the server is on paper {based|based mostly|primarily primarily based} and therefore the bill created finally is additionally on paper based. we have a tendency to complete that this paper primarily based system is well prone to get injured due to many reasons and it ends up in totally different downside i.e. waiters couldn‟t have organized records of purchasers. what is more it prompts wastage of your time and paper. On the opposite hand typically if there's a requirement of very little changes within the menu then supervisor ought to print the complete menu cards and it prompts papers and cash wastage. Since it is not conceivable to print the complete menu over and over due to very little changes. On the
off probabilities someday supervisor ought to review the records before the request. For this a handler has
to stay for taking order and recording request and follow up already reserved hall created the previous system of booking tedious. what is a lot of for every very little request we'd like to decision the waiter for variety of times and it prompts some idea from waiter facet. thus we'd like to roll out some enhancements within the current system to wipe out the higher than problems.

2.1 Disadvantages of Existing System

- The major drawbacks of the prevailing system were as follows
- It was an internet {based | based mostly | primarily primarily based} application and paper based.
- Wastage of your time, cash, and paper.

3. LITERATURE SURVEY

The past 10 years, email spam detection and filtering mechanisms are wide enforced. the most work A digital table booking and ordering system for building was developed victimization golem mobile application [1]. They designed associate ordering system to produce on-line booking of food things. Digital ordering system has enabled the client to position the order even from far off and find on-line bill. 3 coordinated apps were designed to manage room order, customers and billings system severally. Implementation of ordering system proves effective for potential quality and economical. Similar project was reportable associate earlier food ordering system to get rid of the errors of manual ordering system[2].

They designed AOSRTF (An machine- driven ordering system with real time feedback. This ordering system build use of wireless technology and golem mobile. This ordering system additionally increased the potency of output by shortening of cumbersome load of labor. Digital ordering system proves cost-efficient than standard paper based mostly ordering and reservation system. barely and dine app was developed for on-line booking of food order[3]. Implementation of e-ordering of food and web site was additionally appreciated by the shoppers. WOS (Wireless operational system) was designed to develop a food ordering system [4].

On-line ordering of food system provides an easy style to confirm top quality service for purchasers. They created use of rising technologies and handheld devices (PDAs) for easier communication between service suppliers to their shoppers. They additionally urged these machine-driven management system may also be adopted in hospital to manage their information recorder with slight modifications. Another effort has been created for enhancing the feeding expertise tho' the employment of e-technologies [5].

They additionally urged a comparatively more practical means by the employment of multi-touchable e-management for building system. they supply a serial management of food from preparation, packing and asking through an automatic system. Another project was designed victimization the advancements of data and communication technology for business transactions.

4. PROPOSED SYSTEM

n projected ordering system we offer facility customers to order tables for eating, and might additionally get details of hall availableness for reservation of party and celebrations. At a similar time this on-line reservation system can give the building owner to manage their services together with food. presently projected system is going to be quick and straightforward to use and involves the applying of 5 modules that area unit the reservation, the order takeaway, your order gallery and make contact with USA. this technique can manage by 2 main robot applications, initial one would be offered for general customers for viewing and booking of table and halls. Second would be utilized by the admin to update the manage the services with within the building premises.

4.1 Requirement Specifications

• Functional needs
• Non-Functional needs purposeful needs
The main operate of this application is on-line table reservation.

Table Reservation:
The main operate of this application is on-line table reservation user will reserve any table through this application any time and from anyplace.
Hall Booking: The second main operate is user will book hall exploitation this app additionally cancel booking once they want.
Food Ordering: User can also order their favorite food exploitation this application by simply filling the shape.
Contact Us: User will contact with edifice admin any time exploitation this application.
Gallery: User will see all edifice updated pictures from gallery. pictures are going to be provided by admin application.

4.2 Non-Functional needs

A. Performance Requirements: so as to assess the performance of a system the subsequent should be clearly such.
B. Response Time: ten seconds area unit concerning the limit for keeping the user‟s attention targeted on the dialogue. for extended delays, users can need to perform different tasks whereas expecting the pc to complete, in order that they ought to tend feedback indicating once the pc expects to be done.
C. Workload: The system ought to be capable of supporting one,000 customers" or "the system ought to be able to support four pages/sec". These statements area unit usually smart metrics at a high level management level however don't outline the work that the system should support.
D. Scalability: In one respect quantifiability is just such because the increase within the within the that the system ought to be able to method.
E. Platform: A platform is outlined because the underlying hardware and package (operating system and package utilities) which is able to house the system. Our product support robot platform with and later lollipop version
F. Safety needs
We area unit used safety techniques for the subsequent error

1) Software logic errors
2) Software support errors
3) Hardware failures

G. Security Requirements: Before you'll confirm if a program is secure, you wish to work out precisely what its security needs area unit. therefore, there's only 1 security demand for our product
H. info Security: For this security we tend to area unit exploitation base of operations info as a result of while not authentication base of operations isn't permitting to anonymous to browse and write knowledge in info I. package Quality Attributes
1) Adaptability: This App is put in on devices having robot OS.
2) Economic feasible: The developing app should be even by value and profit

5. METHODOLOGY

5.1 Sequence Diagram

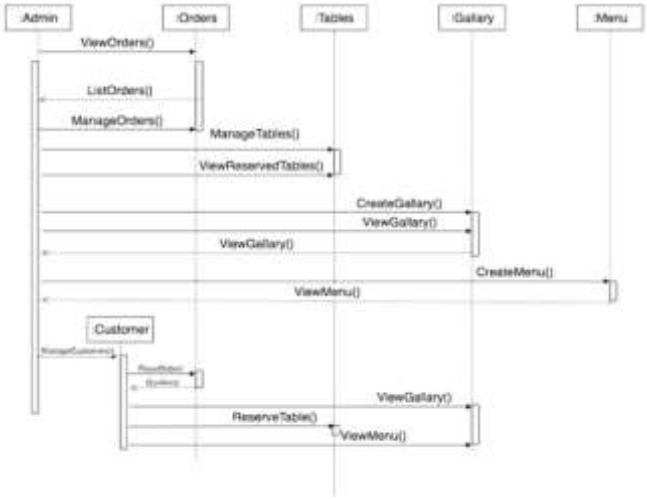

Figure 1: Sequence diagram for overall system

Above figure showing the Sequence Diagram of the system and these states the input and output event of system. Mean what is going into the system and what is going out. SD is usually drawn from the one particular use case.

The user can log into the restaurant and check the availability of the table, as per the user requirements user will select the table and then confirm the seat. The confirmation message sent to the user. A notification will also send to the restaurant manager about the table booking and customer data.

5.2 Use Case Diagram

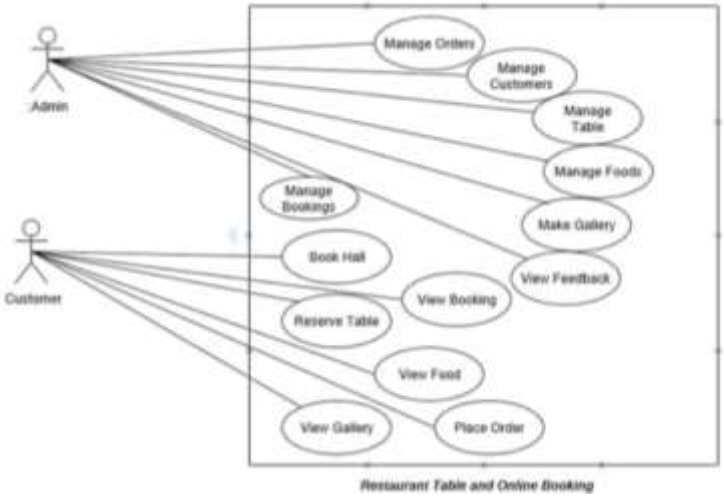

Figure 2: Functional requirements of overall system

A use case model is showing the functional requirements of a system. Functional Requirements are the system‟s core requirements, without this method can't be completed and perphas it useless. Above use case showing two Primary actors that are directly interacting with the system.

Actors: Actors with their essentials are mentioned in the Fig.1, Admin, Customer

Functional requirement are one is online table reservation user can reserve any table through this application any time, second user can book hall using this app also cancel booking when they need, third user can order their favorite food using this application, fourth user can contact with hotel admin and last one is user can see all hotel updated images from gallery.

5.2 Data Flow Diagram

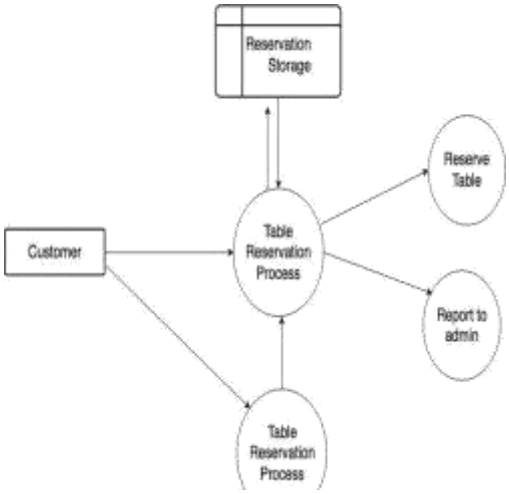

Figure 3: Customer reservation process

Figure show the processing of system on to Level 0.This is the abstract view of the system that show the customer process to reserve the table and then it will be reported to the admin

6. RESULT

The project user enters the individual points of interest to get a record which is should are been utilized within Android App. The client can see the sustenance. This may enable the client to save a lots of table and therefore the reservation subtle elements are sent to the mail ID of the client. The results and output screens are shown within the following Figures:

7. CONCLUSION

The project has ended that if a client is willing to go to the eating house and he finds no table is accessible for the dinner/lunch then he/she should wait long for the table handiness. With the assistance of this app user will selection the table‟s location consistent with their would like and willing e.g. Table may be reserved as consistent with range of holiday makers. Moreover, you will be able to simply book the hall for a celebration party or any mega event and might see footage of interior from the App. Keeping seeable the demand of planned project that offers a series of services associate degreed provides the client to simply book hall or to order their obtainable table while not waiting through an automaton app. during this explicit project we've got resolved problems being featured by eating house by developing app named as DINEZONE‟ which will be downloaded and so simply update his/her self-data and might have access to latest news and menu with the eating house. This app can get its importance as currently days additional and additional folks are becoming into automaton and fast life.

8. REFERENCES

[1] Dhore B., SurabhiThakar1, PrajaktaKulkarni, RasikaThorat, “Digital Table Booking and Food Ordering System Using Android Application” in International Journal of Emerging Engineering Research and Technology Volume 2, Issue 7, October 2017, PP 76-81.

[2] ShwetaShashikantTanpure, Priyanka R. Shidankar, Madhura M. Joshi, “Automated Food Ordering System with Real-Time Customer Feedback”, in International Journal of Advanced Research in and Software Engineering, Vol. 3, Issue 2, February 2018.

[3] Jhabuawala Mustafa, Kothari Radhika, NaikRiddhi, SlatewalaAbdulquadir,“Touch & Dine- A Multi-Touchable Restaurant System” in UACEE International Journal of applied Science and its Applications - Volume 2: Issue 1.

[4] Khairunnisa K., Ayob J., Mohd. HelmyA.Wahab, M. ErdiAyob, M. IzwanAyob, M. AfifAyob, “The Application of Wireless Food Ordering System”, in MASAUM Journal of Computing, Volume 1 Issue 2.

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