

OURS DINE: ANDROID BASED FOOD ORDERING SYSTEM BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering

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DHAKA, BANGLADESH FEBRUARY

2021

APPROVAL

This Project/internship titled **“Ours Dine: Android Based Food Ordering System”**, Submitted by ***Goni Al Sayed (171-15-9205)*** and ***MD Hasanur Rahman(171-15-8920)*** and ***A S M Ashraful Alam Tanay(171-15-9189)*** to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on ***28-1-2021***.

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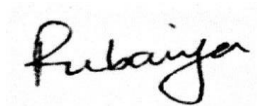
We hereby declare that, this project has been done by us under the supervision of **Tapasy Rabeya, Lecturer, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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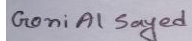
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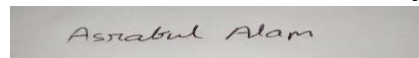
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ABSTRACT

Our project is “**Ours Dine: Android Based Food Ordering System**” is an online Customized food ordering and space Booking application. This is a kind of smart device with android application, which helps people to order food from restaurant. Our time is very precious. So if customers can order food sitting in home with their own preference that will be beneficial and customers can order customized food. In this online era we have made the apps also online basis which will help to order food. To develop this project, we have used XML, for android front end design and back end JAVA, for the database we use FIREBASE. After the implementation of all functions, the application is examined in specific degrees and it works successfully as a prototype.

ACKNOWLEDGEMENT

First we express our heartiest thanks and gratefulness to almighty God for His divine blessing makes us possible to complete the final year project/internship successfully.

We really grateful and wish our profound our indebtedness to **Tapasy Rabeya, Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “*Android Application*” to carry out this project. His endless patience ,scholarly guidance ,continual encouragement , constant and energetic supervision, constructive criticism , valuable advice ,reading many inferior draft and correcting them at all stage have made it possible to complete this project.

We would like to express our heartiest gratitude to **Professor Dr. Touhid Bhuiyan**, and Head, Department of CSE, for his kind help to finish our project and also to other faculty member and the staff of CSE department of Daffodil International University.

We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patients of our parents.

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CHAPTER 1 INTRODUCTION

1.1 Introduction:

Customize Food Management & Space Booking system is a place where you can order customized food like, how much cheese eat you have and then get the food in minimum time and also space booking system. Here customers No got to be physical present to order food and just mention your customized item. If you need space of any restaurant then also booking by using this app. Restaurant can prepare their own food and display it within the application. And customer can order the food the presented menu by the restaurant. To extend customer satisfaction and order the food conveniently customized food ordering and Space Booking App has been introduced. OURS DINE is customized food ordering system also space booking feature, by this application peoples can order customized food and do Space booking.

1.2 Motivation:

We have made an online food app for our final project. It's a digital food ordering app. By which customers can order food sitting home. Depending on their taste preference they can tell the restaurants how much to use an ingredient in the food. Here we have focused on how to order food according to personal preference without wasting time. We have a lot of planning based on this app in the future and we want to ensure online space booking on specific any restaurant by using our Application.

1.3 Objective:

1. Customer can order food at the restaurant and get home delivery.
2. Customized food ordering.
3. Specify the number of ingredients needs to use in the food.
4. To store all database along with the processing of notification.
5. Customer can ensure space booking before reached that restaurant.

1.4 Expected Outcome:

Managing a restaurant is undoubtedly one of the most daunting tasks than others for an entrepreneur. To make more sell and to make the delivery process easy thought this process. Through this restaurant owner easily place the food inform of the customer and customer can also easily order food their preferred choice of food by comparing price place and delivery time moreover they can customize the portion of the ingredient in the food and tell them to the restaurant. Sell will increase as well as the customer's satisfaction level.

1.5 Layout of the Report

In chapter one of the report, we introduce our venture software and mentioned about motivation, objective and also its predicted outcome.

In Chapter two will explore “Background” and challenges. We moreover discuss the associated work, the scope and challenges of the project and therefore the comparison to several different candidate systems.

In chapter three, We discussed the need collection and analysis process.

In Chapter four will explore Design Specification. Explore font-end and back-end design.

In chapter five, we exhibited the implementation of the entire project and that we examined each section of the project whether or not the appliance is functioning as predicted.

In the chapter six, we discussed about conclusion and therefore the scope for further development of the project.

At last of the report, we give the related reference.

CHAPTER 2 BACKGROUND

2.1 Introduction:

In this part, we'll discuss that in spite of getting several similar apps within the market why we've made another app. we've discovered the pros & explanation for all the apps thought our market research. That why we've made an app that's far better than other apps, more facilities are there and really much user-friendly. For designing, we are using XML. For database we are using Firebase for real time database, which is extremely popular within the world right now. We have already revealed what tools we'll use for designing our system. Java is that the most popular object oriented programming language for android development. It's very user friendly.

2.2 Related Work:

Apps Name is given below:

- Food Panda. • Hungrynaki.
- Uber Eats.

This is a web meals ordering application and website. They line up of their orders by way of their online software and website. so as to technique a web order transaction three matters are needed.

- Payment Process.
- Cart.
- Delivery.

2.3 Comparative Studies:

Before making this app we meet with the restaurant managers who are prominent within the business along with the purchasers in order that we will get the thought of their difficulty. a really common problem we found that the supplementary ingredients that are wont to enhance the taste of the most dish. Suppose someone doesn't like cheese within the burger in order that they, if they will specify that they are doing not need cheese within the burger while ordering it, can more hence their food experience. Our face base for preparing this app was an equivalent. During which customers are going to be ready to contact directly with the chief.

2.4 Scopes of problem:

Our apps have a slicing-edge or foul arrangement, and no matter whether or not we've enrolled a gathering of master organizers to form our affiliation emblem or critical transposed what we doodled on a paper napkin, Customers might not thus believe in our apps. If there is no trust, it's unlikely that preparations will attempt to find after. this is often mainly trusting just in case we are endeavoring to sell luxurious things that omit on a measurement large buy cost or shopping cost.

2.5 Challenges:

To increase customer service satisfaction alongside the dedication to supply delicious customize food we've taken this challenge. We have planned in such how that a customer won't have to go to restaurants moreover customers can choose what ingredient to use in preparing their food. In a way, the customer are going to be become his own chief without involving directly in cooking and can have food at the house.

For the convenience of consumers, they will easily change any data they need albeit they forgot the password are often easily regenerated by them also.

CHAPTER 3 REQUIREMENT SPECIFICATION

3.1 User of System

3.1.1 Customer

Customers are going to be ready to order food through our dine Apps. For those, they need to register themselves within the app using name, email & phone numbers. Customers also can identify their location through Google map services. If the address isn't identifiable, the customer can manually customize the address also. After log-in through email & password within the customer of the app will be ready to view all listed restaurants and may order food and can also choose preference of ingredients they need to use in preparing the item. After completion of the order customer will get the confirmation notification also.

3.1.2 Administrator:

The director or administrator will handle the entire program alongside all the permission. Every individual restaurant managers will need to register & log-in through individual email & password. During registration restaurant managers are going to be ready to upload logo, name, food menu and other information of the restaurant. When any customer will log-in to the app administration will get the notification. All uploaded data are going to be stored within the app. The administrator can delete any info in the app. we've used firebase so all uploaded information will store at the database.

3.2 Requirement Collection & Analysis:

Requirement assortment and analysis are the preliminary steps to the utilization improvement process. For sending, there are 2 varieties of prerequisites, one is that the utilitarian necessity and therefore the totally different could be a nonfunctional necessity. sensible needs are inside physical exertion routines that are the applying programming will perform. Then again, Nonfunctional requirements represent the habits of an application. It characterizes however loads the application is effective, execution downside of the utility and a few more

3.3 Business Process Modeling:

Business method modeling (BPM) may be a gift day technique associate degree methodology. beats per minute diagrammatic the activity of an enterprise of a systems engineering to reinforce or analysts the up to date process. during this process, one will certainly represent the advancement of a system. A data flow format is one amongst the foremost usable diagram to exhibit the work flow of a system.

It's convenient and comprehensible to any workflow.

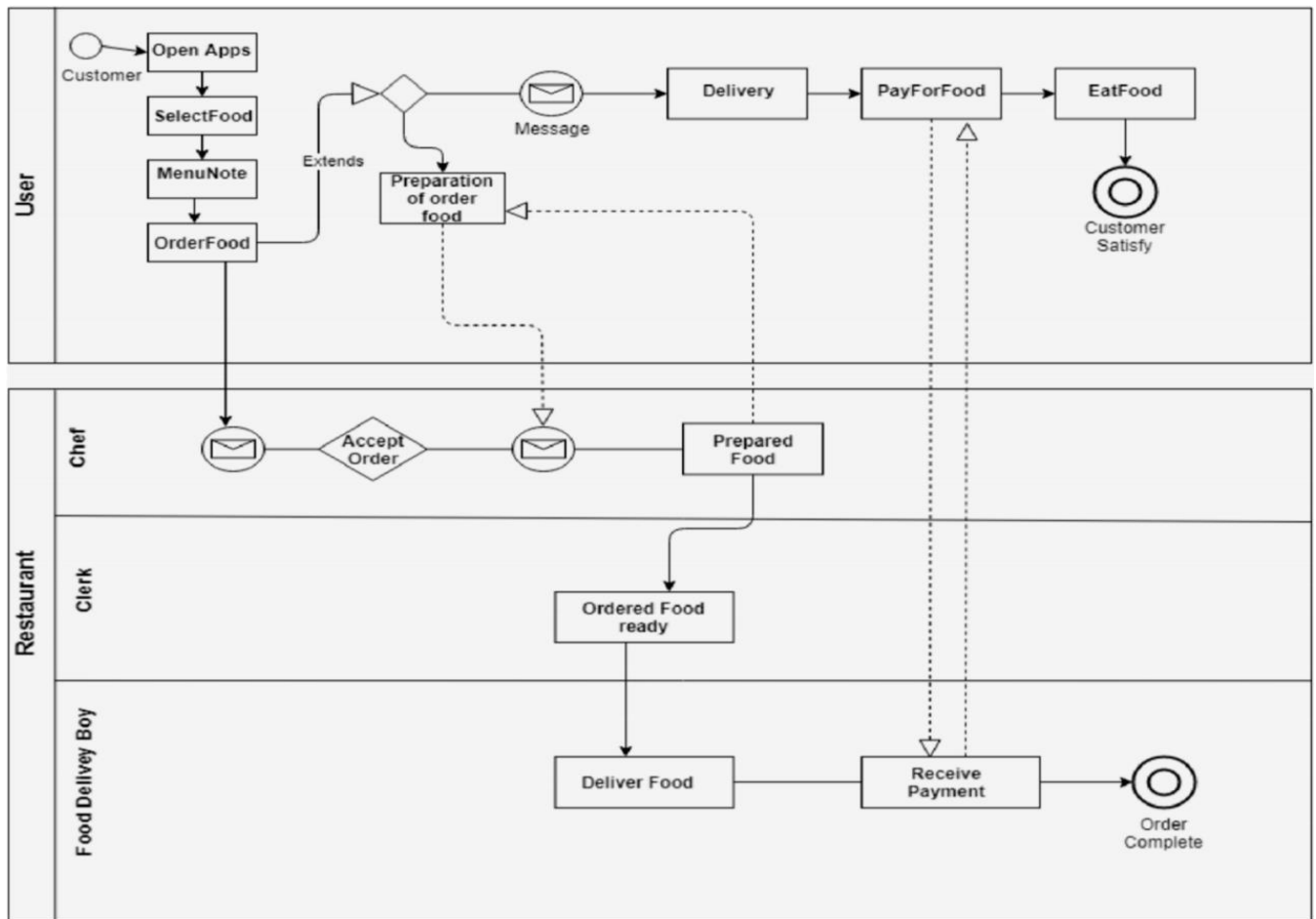


Figure 3.3: Business Process Model

3.4 Use Case Diagram:

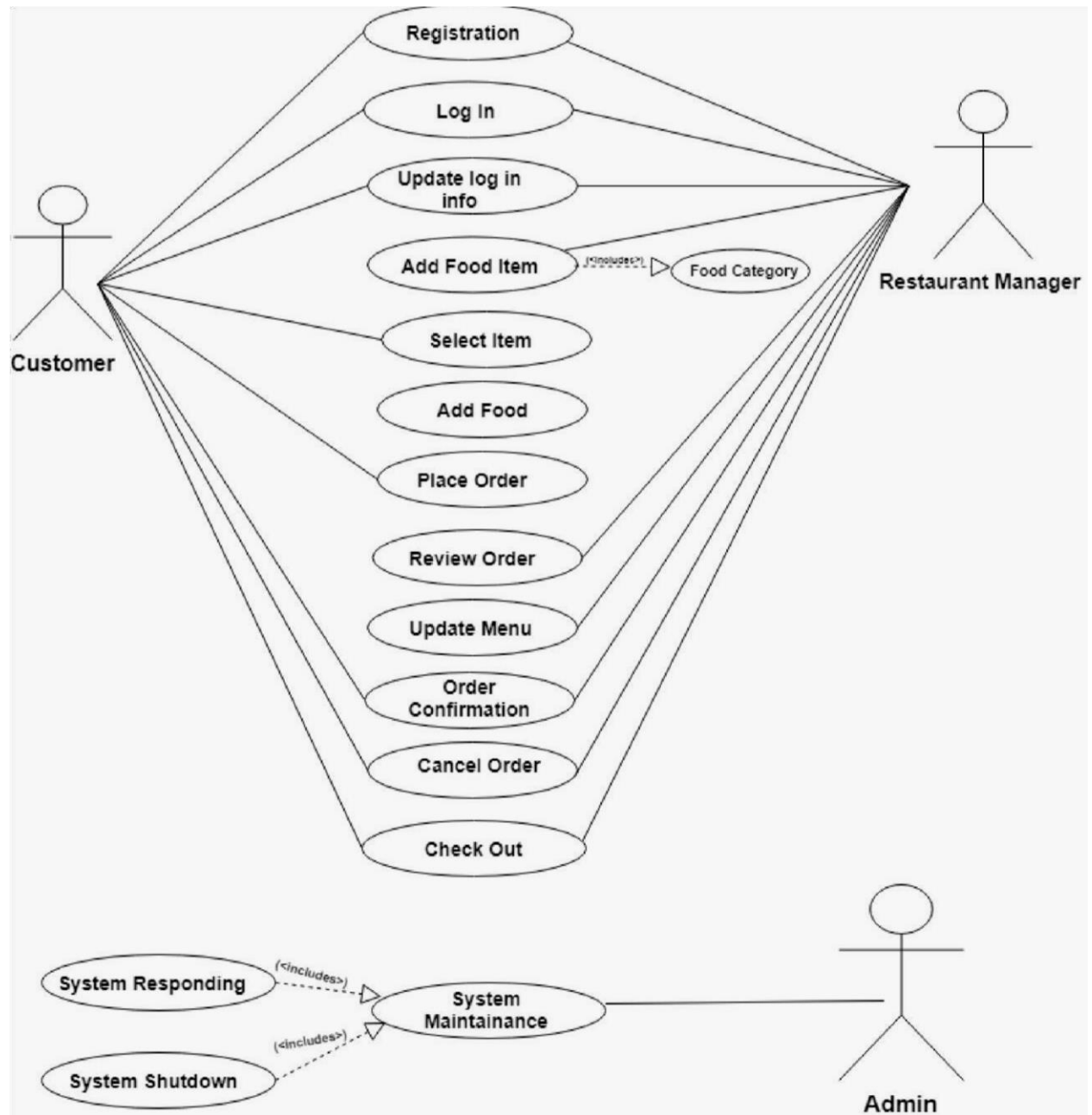


Figure 3.4: Use case Diagram for customer and Admin

3.5 Flow Chart:

3.5.1 User flow chart:

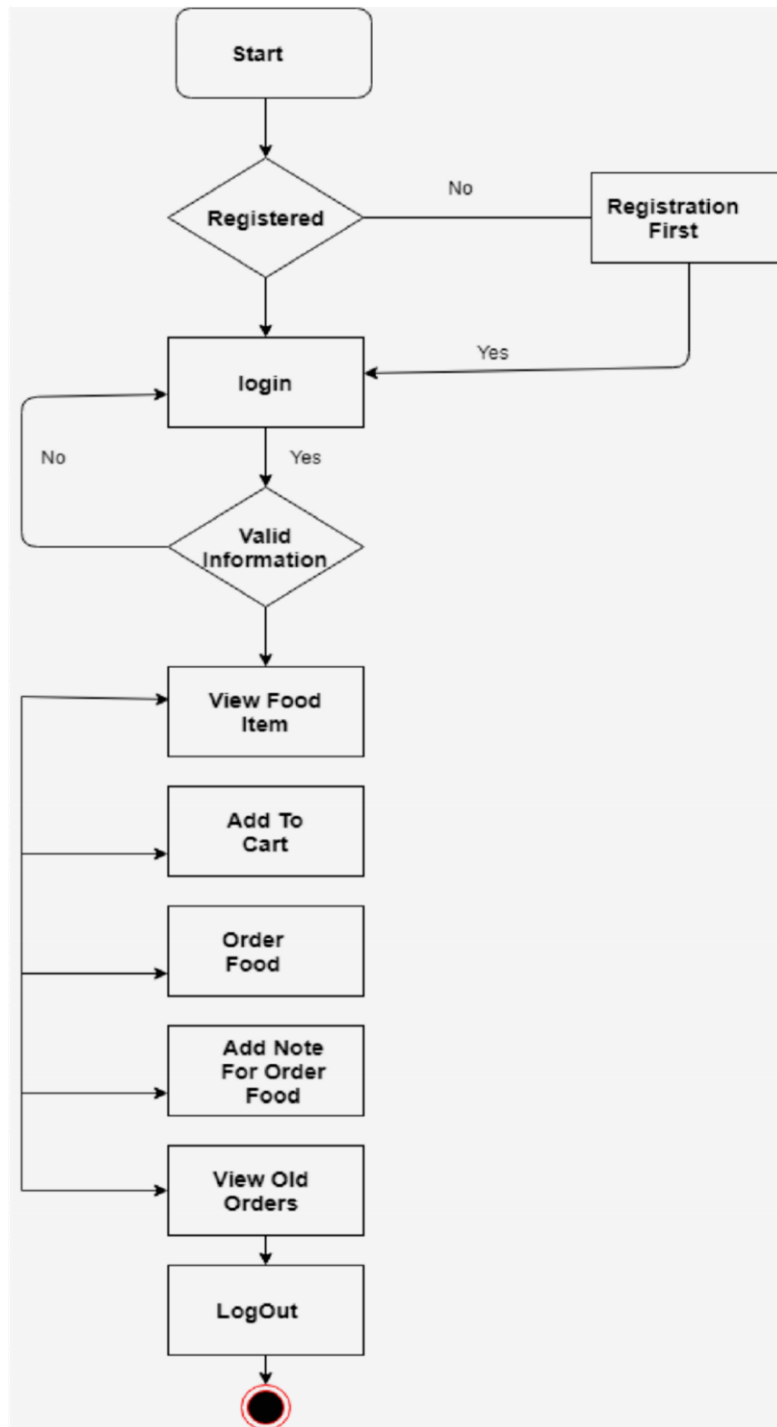


Figure 3.5.1: flowchart for customer

3.5.2 Restaurant flow chart:

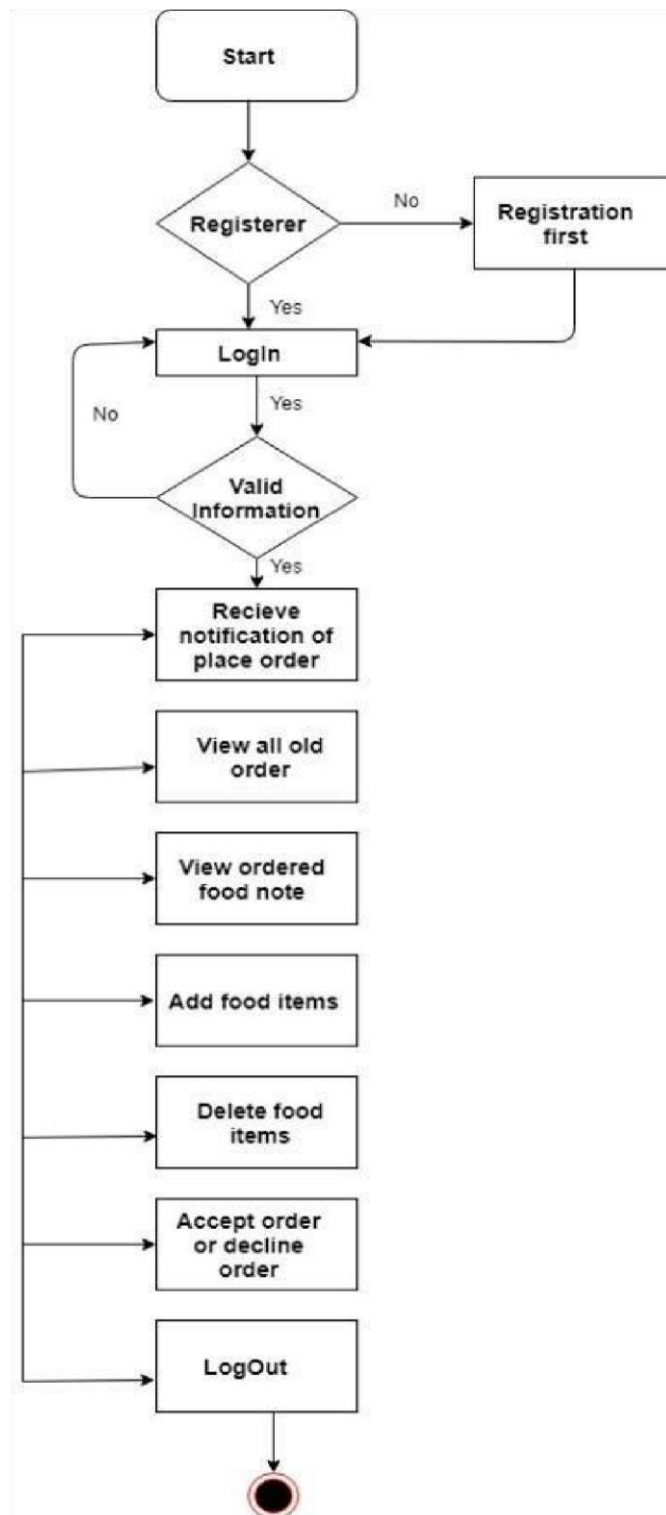


Fig: Flow chart of Resturant

3.6 ER Diagram:

3.6.1 User ER Diagram

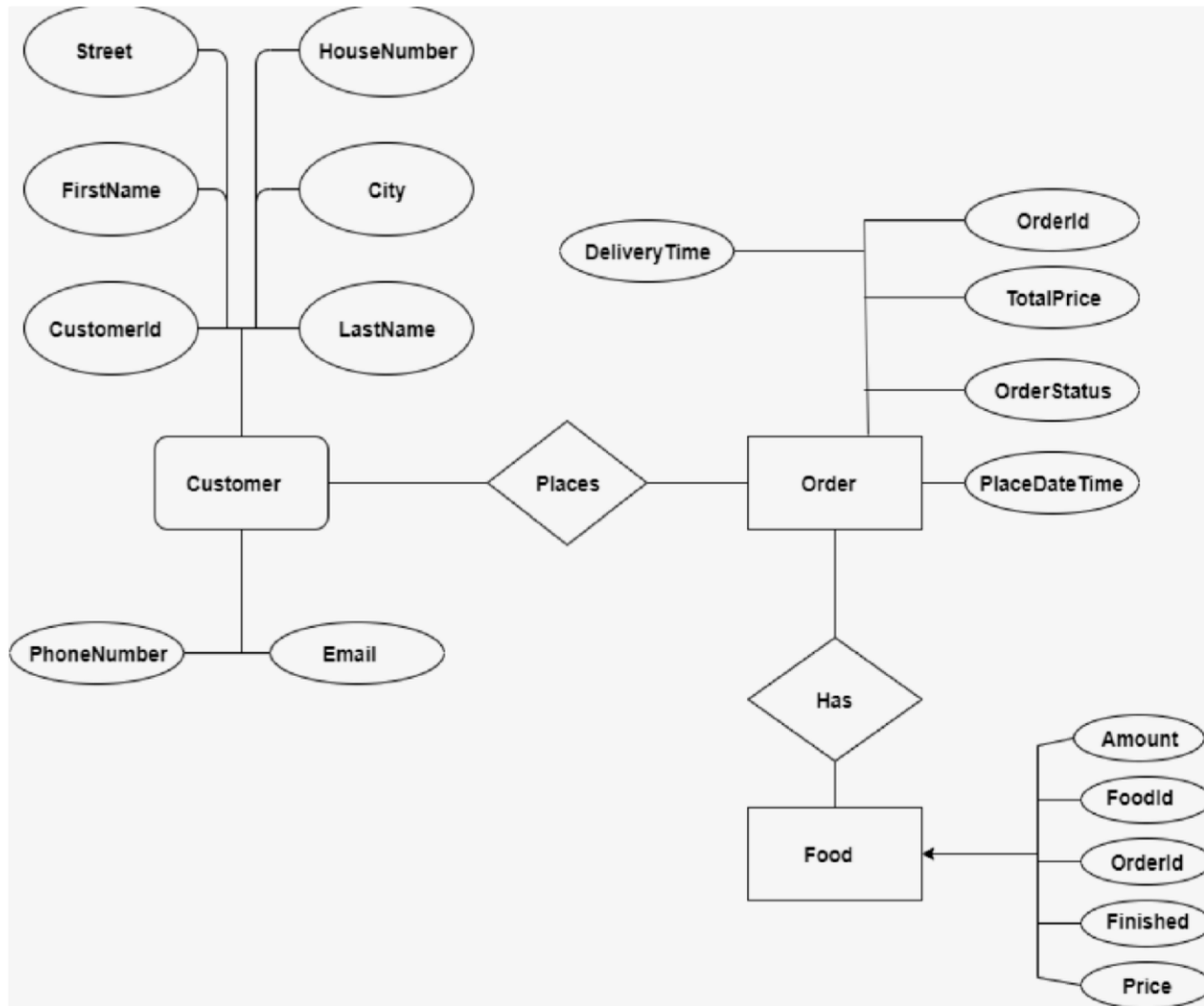


Figure 3.6.1: ER diagram for user

3.6.2 Restaurant ER Diagram:

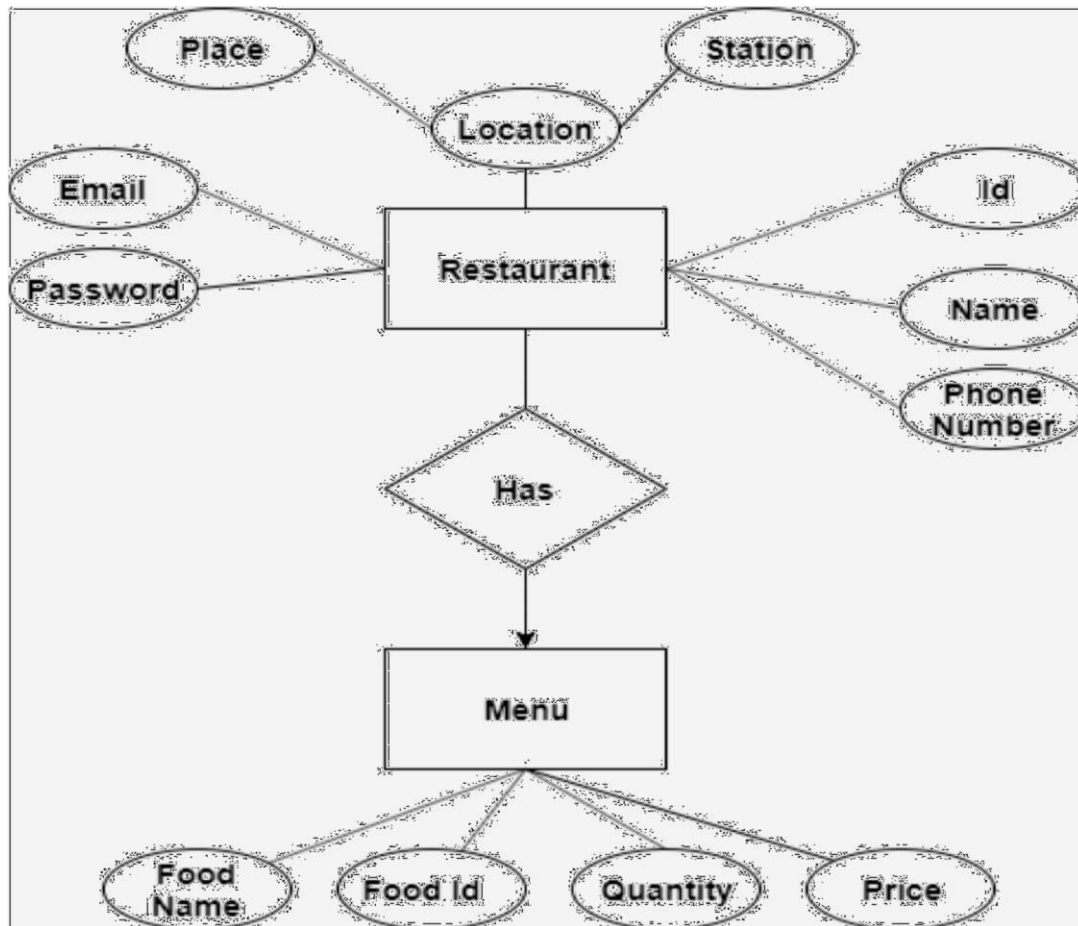


Figure 3.6.2: ER Diagram for Restaurant

Chapter 4

Design Specification

4.1 Design Specification

A design specification may be a sure file providing statistics a couple of designed product or process. The sketch specification must incorporates all representative drawings, dimensions, environmental factors, protection which will be needed, and so forth it's going to} to boot additionally provide specific samples of however the graph should be executed, helping others to figure right style Specification is a declaration of how an idea is developed. within the a part of the look Specification, we have a tendency to conceive to exhibit the frontend and back-end format of our robot application. we have a tendency to also mentioned several instrumentation and platforms, that we use to boost our software.

4.2 Customer Specification

- 1) Order food per the menu: when log-in client can opt for food from the menu and might customise the order.
- 2) Allow to book/cancel the order: it'll enable a customer to feature order to cart & allow to cancel it also.
- 3) Allow customer to make his/ her personal account: Your customer can create is an account by providing the required information.
- 4) Allow customer to vary his/her password. during this option, customers can change their existing passwords.

4.3 Management specification:

- 1) Edit menu list: An Admin can make a menu list with price and tags, and also they can be changing the menu things, cost and tags, and also an admin delete the menu.
- 2) Cancel the order: An Admin can cancel the order when they don't want to take their order.
- 3) Visit old history: Restaurant management can visit old order history.

4.4 Front-end Design:

Android developers utilize distinct equipment to create their apps. The programming language behind all Android apps is Java. In addition, Android app developers must apprehend how to use XML, a markup language, to set up the diagram of their apps. There are many IDEs for Android development. One of the most usually utilized IDEs is referred to as Eclipse. It has a rich ecosystem of plug-ins and an open-source framework that supports different languages and projects. Frontend diagram for android improvement is all about what a user capable to see. It's possibly buttons, images, layout, input fields, etc. To diagram these aspects in android we want XML and Android programming. Therefore these programming's are referred to as frontend programming. So we tried to keep our plan as simple as should be allowed and efficaciously open for the user, however, the enchantments undertaking wasn't so natural. We attach our application front-end sketch below. Android developing has different tools to create an android application. The programming language mainly at the back of all of this is Java. Additionally, Android app developers should be aware of how to use XML. It is a markup language, to set up the format of the apps. Out of the numerous day for mechanical man improvement Eclipse and android studio ide is one in all the foremost usually use.

4.5 Back-end Design:

Back-end diagram capability the strength behind the project. The user is unaware or can't see the backend of a project. The logical section of software system happened within the back-end. it's the foremost basic phase of the software. Back-end technological ability typically consists of language like JAVA. truly the front-end set up is that the solely thanks to interact with the user. Back-end will the full factor that happens in the back of the application. There are several components we want to require care of in the back-end like info management, security, statistics parsing, statistics validating, and records backups then on. In our application, we tend to use JAVA and base as a period of time info to boost and hold the backend part.

4.7 XML:

XML stands for extensible terminology. it's a language that defines a collection of pointers for coding files. An exceedingly in a very layout that's decipherable by means that of each Machine and a Human. it's kind of like machine-readable text Markup Language (HTML). each of them have markup symbols to explain the page or file contents. The integral building sq. of an XML file may be an element, characterised by mistreatment labels. A component contains a begin and a closure tag. All parts in an XML document are contained in a peripheral component recognized because the root element

4.8 Firebase:

Firebase is Back-end as a service in hand by exploitation Google that provides a server-less backend to the app developers. we are able to integrate base in Android, IOS, websites and alternative applications. It offers all backend services like authentication by suggests that of Google, Facebook, OTP, email, and so forth alternative services cover time period information to avoid wasting text details, storage to save multimedia, cloud supplier to send notification and analytics to observe app utilization and crashes.

4.9 User Apps Design:

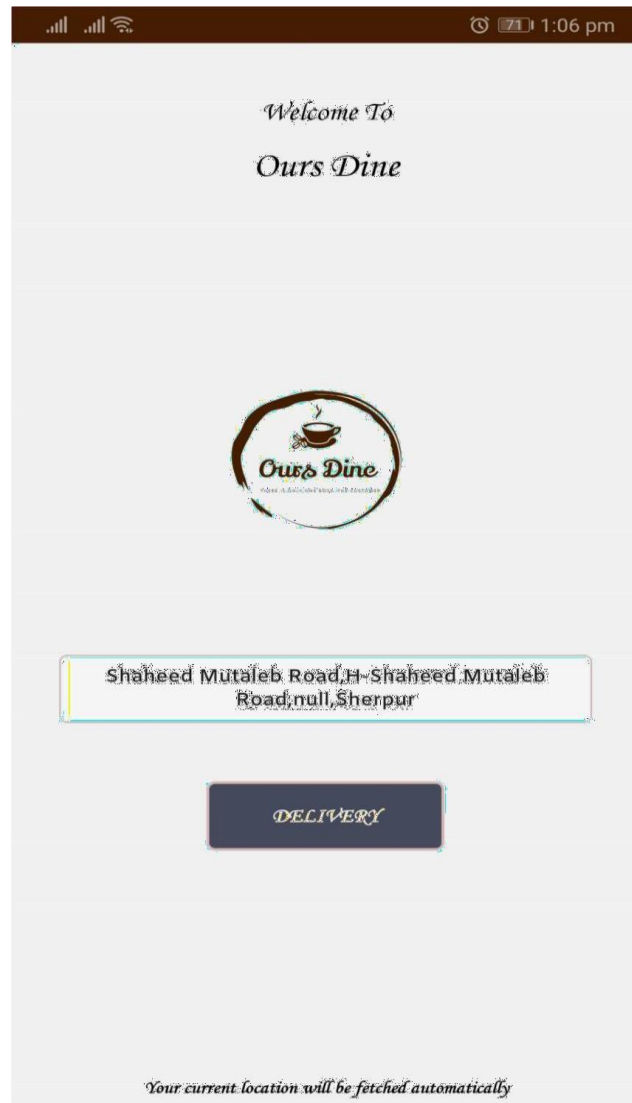
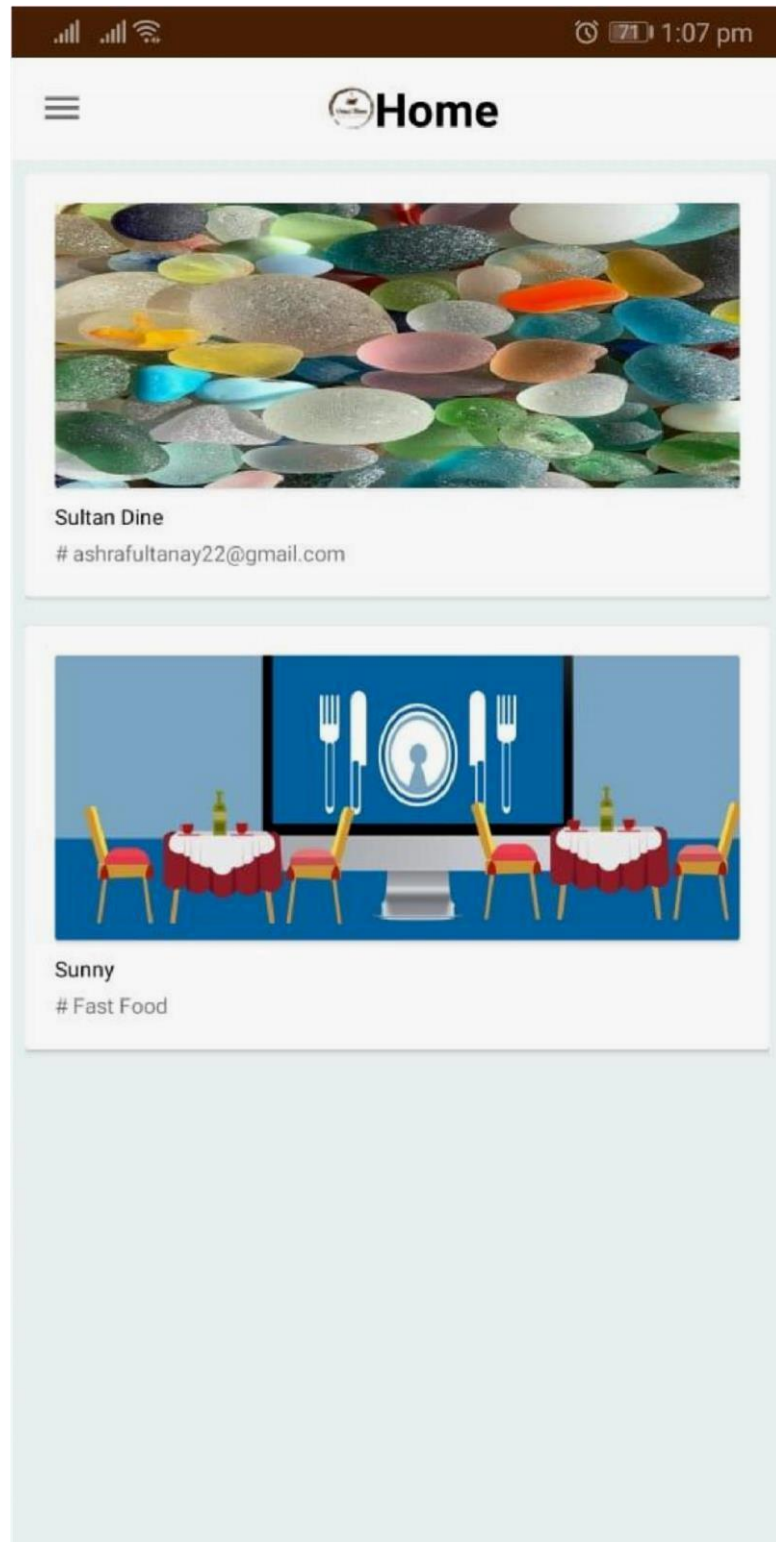


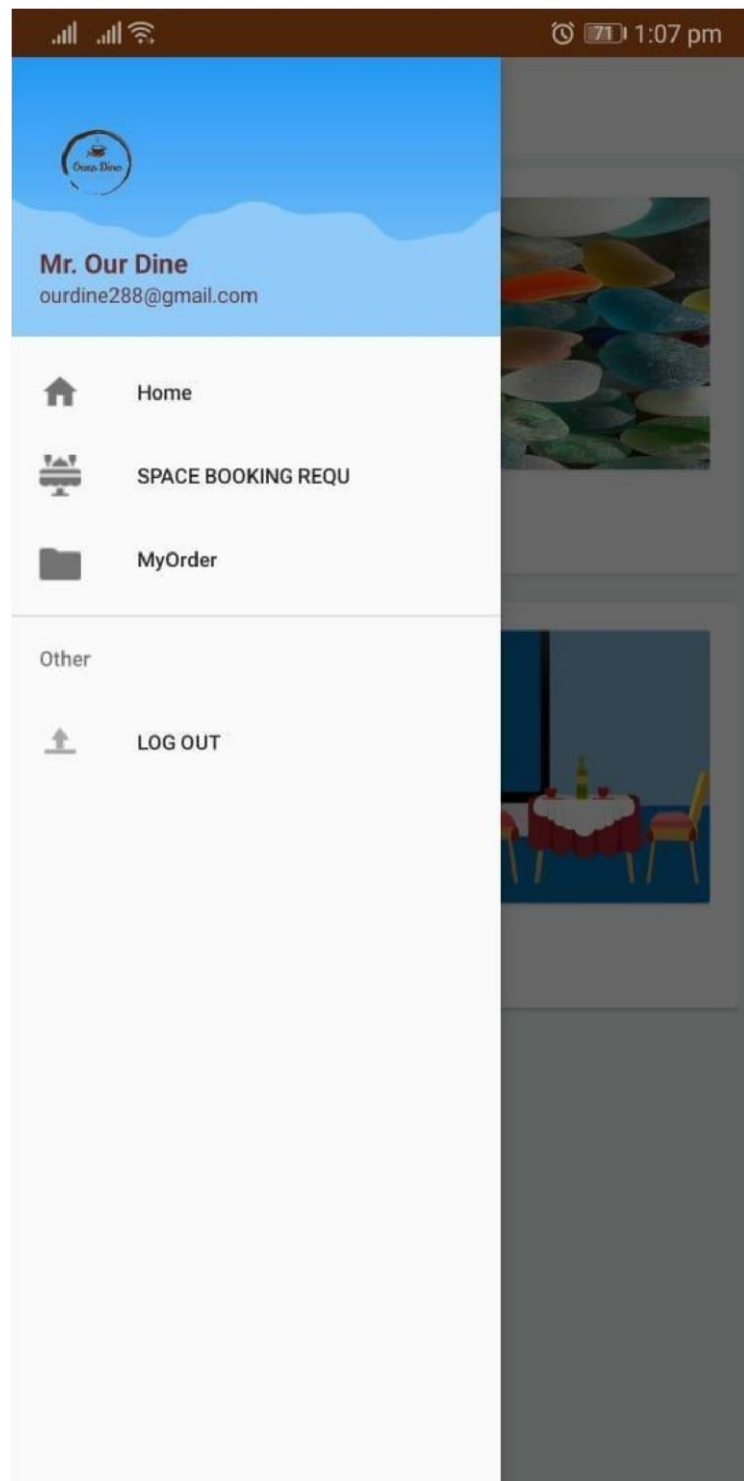
Fig 4.9.1: Welcome page of Customer App

4.9.1 Home Page



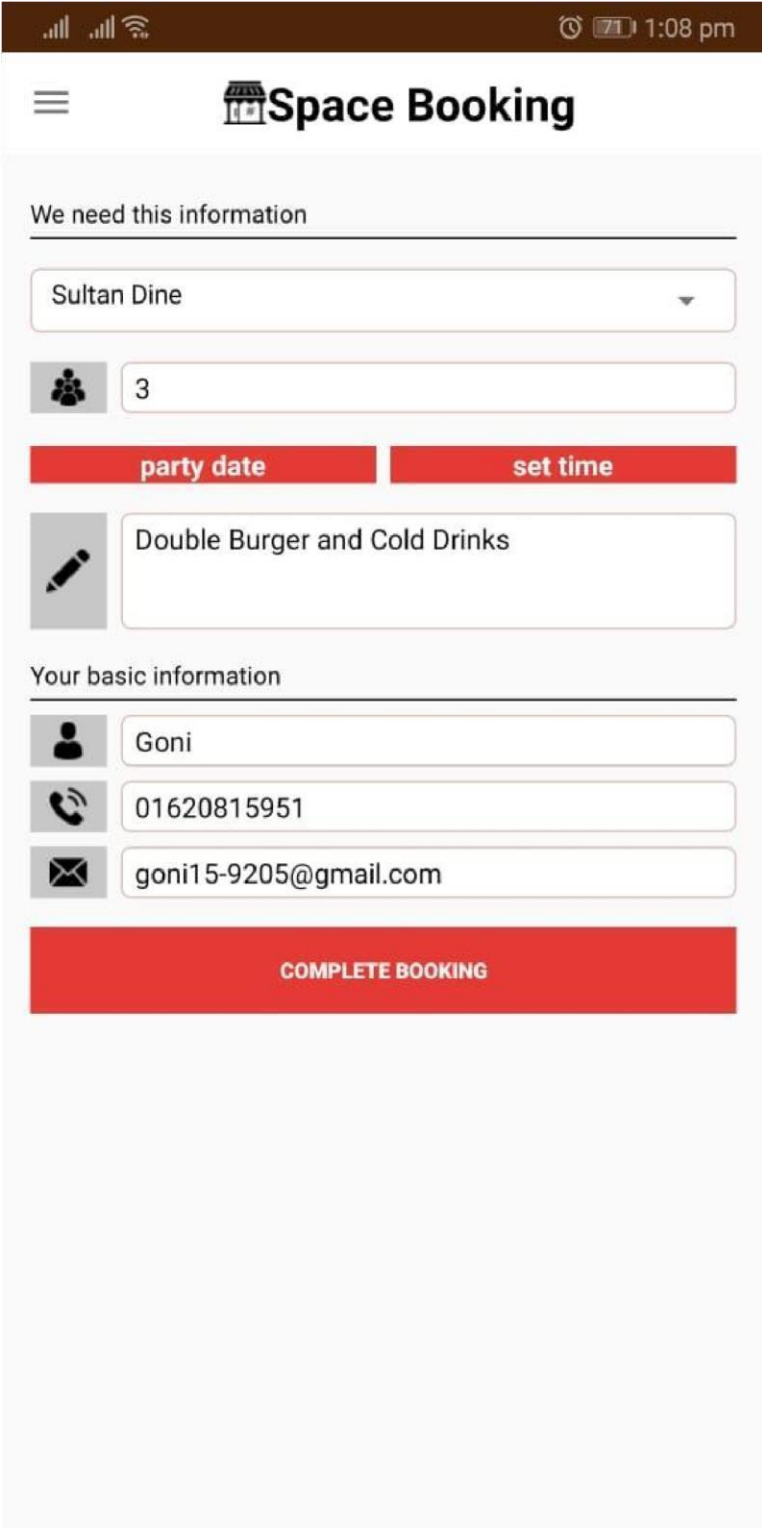
Home Page

4.9.2 Features of Admin App



Feature of Admin App

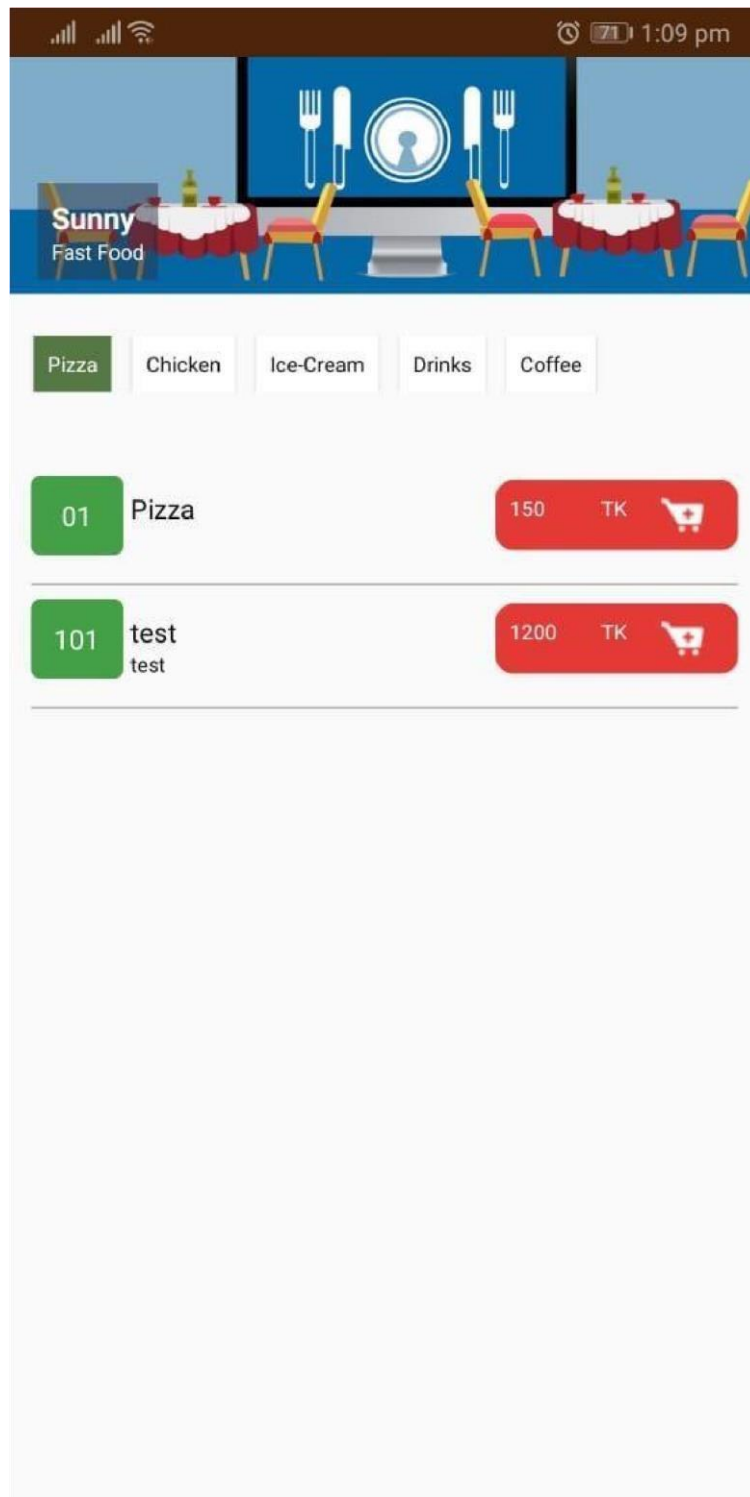
4.9.3 Space Booking Request For Customer App



The screenshot displays the 'Space Booking' app interface. At the top, a brown status bar shows signal strength, Wi-Fi, and battery level (71%) at 1:08 pm. Below this is a white header with a hamburger menu icon and the app title 'Space Booking' with a house icon. The main content area is light gray and contains two sections. The first section, 'We need this information', has a dropdown menu with 'Sultan Dine', a group icon with the number '3', and two red buttons labeled 'party date' and 'set time'. Below these is a pencil icon and a text input field containing 'Double Burger and Cold Drinks'. The second section, 'Your basic information', contains three input fields with icons: a person icon for 'Goni', a phone icon for '01620815951', and an email icon for 'goni15-9205@gmail.com'. At the bottom is a large red button labeled 'COMPLETE BOOKING'.

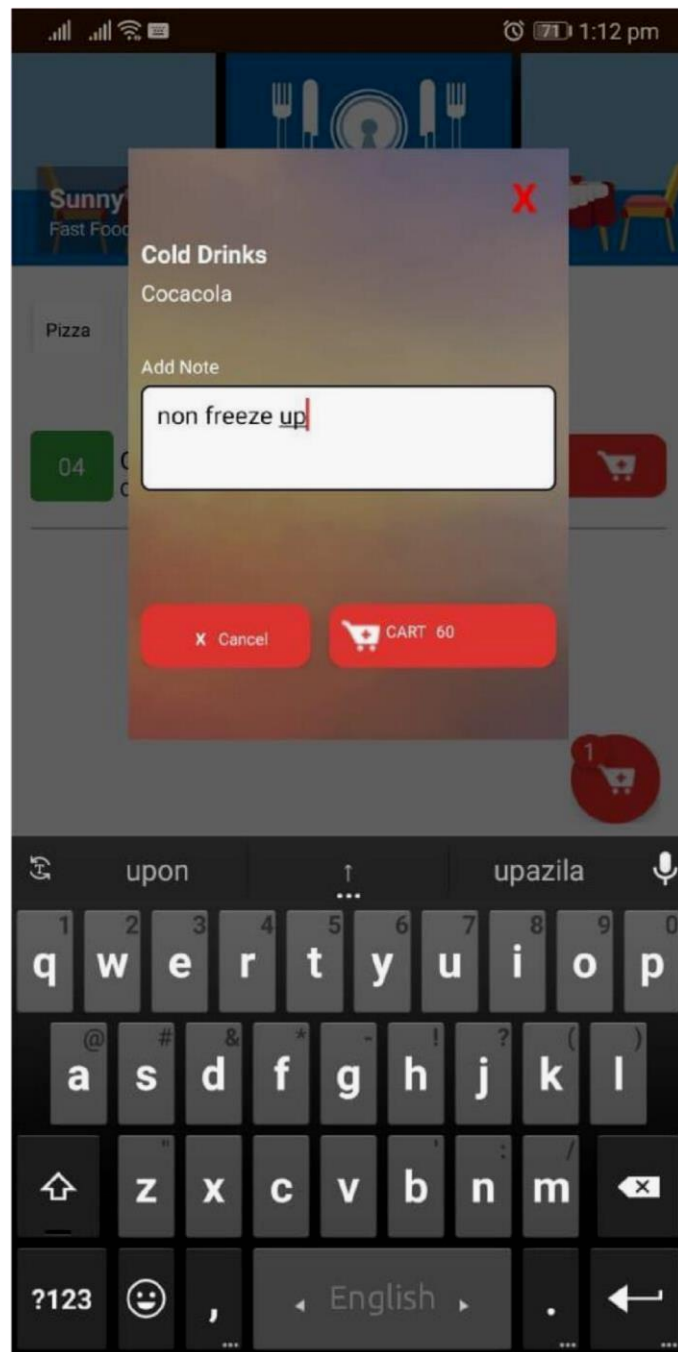
Space Booking Request for Customer App

4.10 Order Interface of Customers App



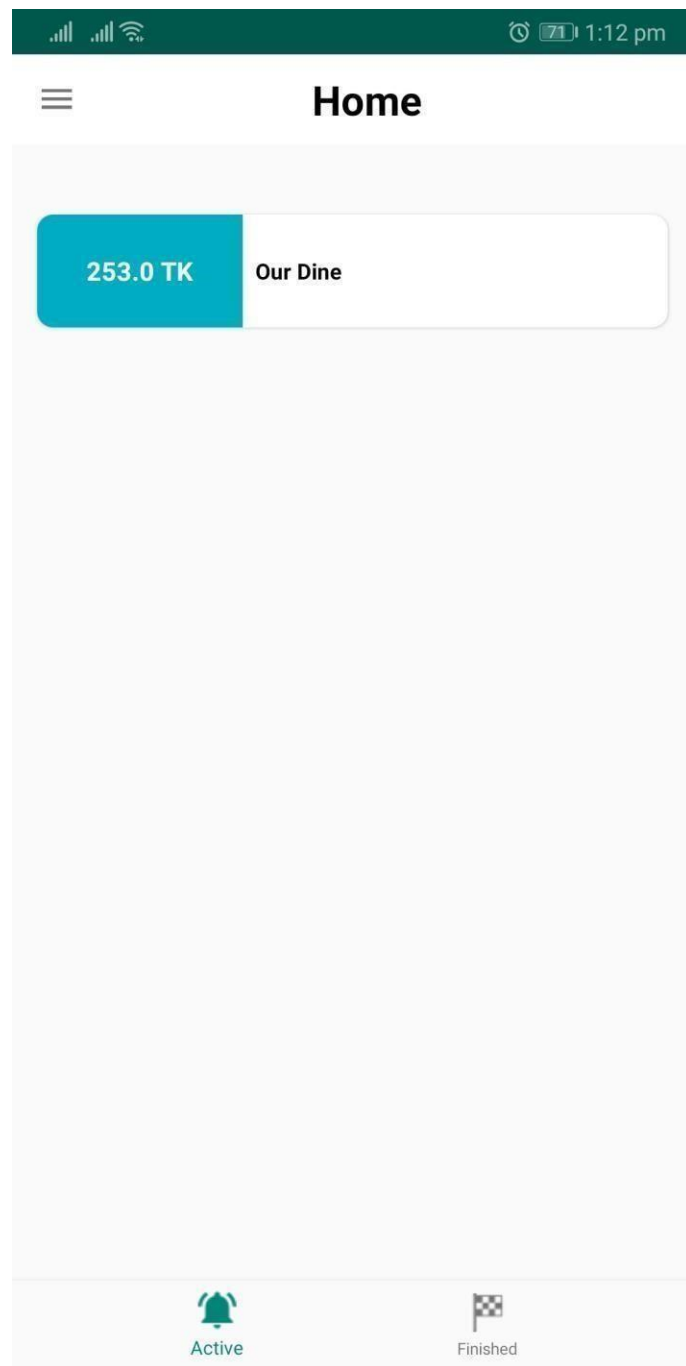
Order interface of Customers App

4.10.1 Customized Food Note



Customized Food note

4.10.2 Total Cost of Customized Food



Total Cost of Customized food

4.10.3 Quantity of Order Customers App

The screenshot shows a mobile application interface for 'Sunny'. At the top, there's a status bar with signal strength, Wi-Fi, and battery icons, and a clock showing 1:12 pm. Below this is a red header with the word 'Sunny' in white. The main content area is white and contains two items in the order list:

- Ice Cream**: Quantity 1, Price 100. A note below it says 'Please low sugar' with a pencil icon.
- Cold Drinks**: Quantity 1, Price 60. A note below it says 'non freeze up' with a pencil icon.

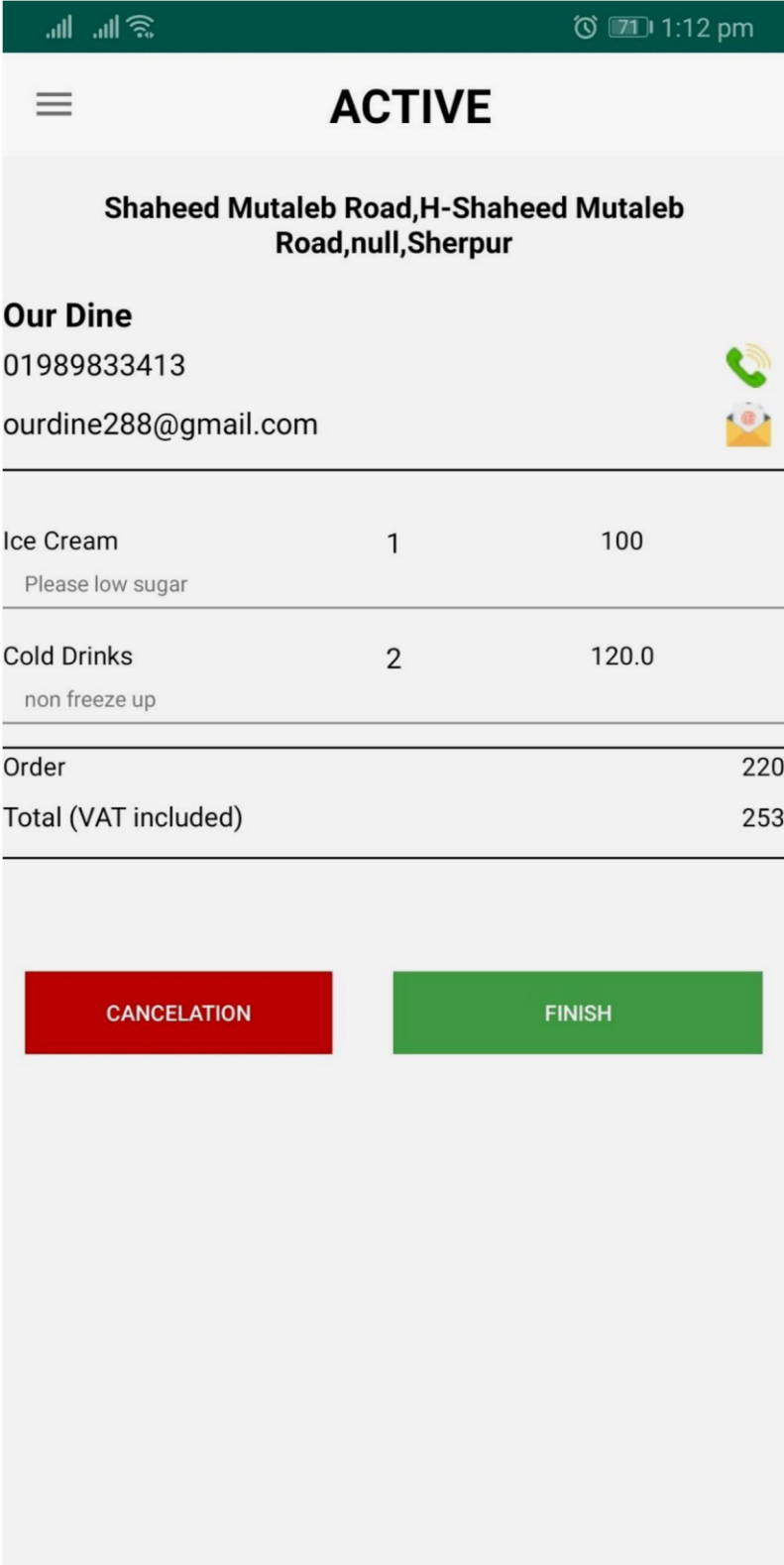
Below the list is a large empty space. At the bottom, there's a summary section with a red border:

Order	160
Total (VAT included)	184

Below the summary is a large red button with the text 'CHECKOUT' in white.

Quantity of order Customers App

4.10.4 Order Request of Admin App



The screenshot displays the 'ACTIVE' order request interface in an admin app. At the top, a dark green status bar shows signal strength, Wi-Fi, and battery level (71%) at 1:12 pm. Below this, a white header bar contains a menu icon and the word 'ACTIVE'. The main content area has a light gray background. It starts with the address 'Shaheed Mutaleb Road,H-Shaheed Mutaleb Road,null,Sherpur'. Below the address is the section 'Our Dine' with the phone number '01989833413' and email 'ourdine288@gmail.com'. To the right of the contact info are icons for a phone and an envelope. A table lists the order items: 'Ice Cream' (1 unit, 100) with a note 'Please low sugar', and 'Cold Drinks' (2 units, 120.0) with a note 'non freeze up'. A summary table at the bottom shows 'Order' as 220 and 'Total (VAT included)' as 253. At the very bottom, there are two large buttons: a red 'CANCELTION' button and a green 'FINISH' button.

ACTIVE

Shaheed Mutaleb Road,H-Shaheed Mutaleb Road,null,Sherpur

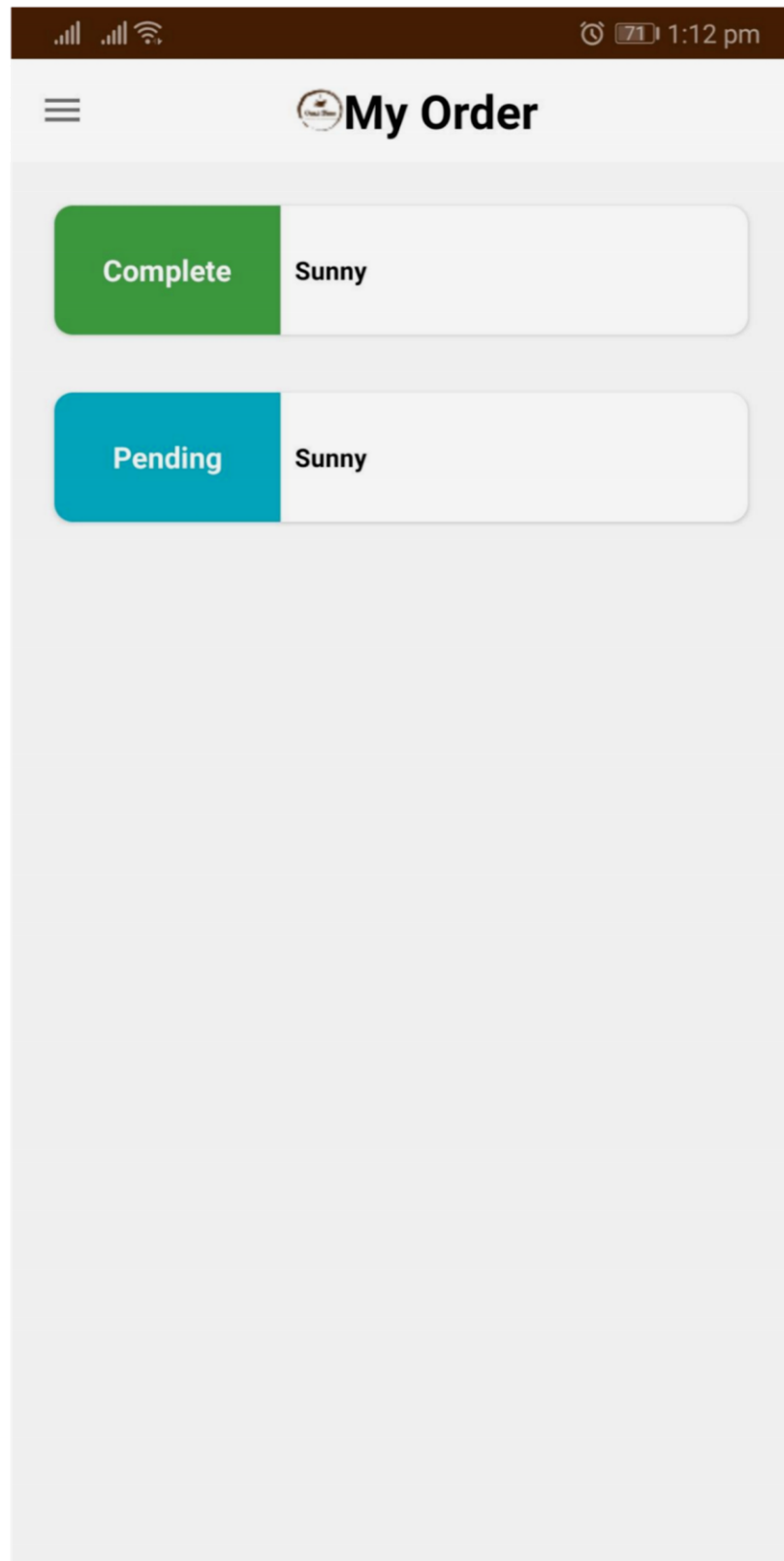
Our Dine
01989833413
ourdine288@gmail.com

Ice Cream	1	100
Please low sugar		
Cold Drinks	2	120.0
non freeze up		
Order		220
Total (VAT included)		253

CANCELTION **FINISH**

Order request of admin app

4.10.5 Confirmation Notification Of Customer



Confirmation Notification of Customer

CHAPTER 5 Implementation And Testing

Testing Implementation:

- Install Application.
- Activity Check.
- Compile.
- Food Order.
- Space Booking.
- Customized order food.
- Get Notifications.

Table 5.3: Testing Implementation

Test Case	Test Input	Expected outcome	Obtained outcome	Result
1.Application Installation	1.KitKat (4.4-4.4.4) 2.Lollipop (5.5- 5.0.2) 3.Marshmallow (6.0) 4.Nougat (7.0-7.1)	Installed successfully	Install successful	Passed
2.Activity Check	Movement open with approval and legitimate data	Successfully instruction complete	Activity open successfully	Passed
3.Compile	Compile successfully all code	successful	successful	Passed

4.Order Customized Food	Order customized done	Show expected result	Showed the actual output	Passed
Space Booking Request	Space Booking request successfully Done	successful	successful	Passed
Get Notification	Successful	Get order and order confirmation notification	Showed the actual output	Passed

5.4 Test Results and Reports:

The test report is relied upon to mirror the delayed consequence of looking at the application officially, which gives a danger to measure evaluating results quickly. It is a report that records realities purchased from a choice to break down in an affiliation way, painting nature and working structure and exhibits the assessment of test impacts with the objective, which are so fundamental for an application. we have demonstrated experiment, test input, expected yield, real yield and in the end we find our anticipated outcome for our application. The check result is unobtrusively effective. The individual fulfills to utilize our application. Our desire will be that the client can without much of a stretch utilize and capture our application as a superior UI.

CHAPTER 6 Conclusion and Future Works

Managing a Restaurant is assistant degree question one in all the principal astonishing tasks that an expert will endeavor. Café the load up comprises of abundance types that each time executed right, would guarantee the spotless stream of the entertainment and even enhanced advantages. We will in regular assurance that robotization of these tasks can rouse facilitate the board hundreds by means of rising offers and bettering buyer fitness through our web. This can be done through a convenient to use graphical interface menu choices. The buyers will add any extent of things to the truck from any of the available sustenance directions with the guide of exclusively tapping the extend truck seize for every thing. At the point when a factor is more noteworthy to the truck, the buyer is talked with explaining solicitation to overview or hold chasing.

6.2: Scope for future Development:

There are a few limits to our application. We will endeavor to conquer this issue as in the blink of an eye as could reasonably be expected. Each application has professionals and cons every which ordinarily rely upon how it has been made. This App is made dependent on XML, JAVA programming language and for store information, we are the utilization of firebase data set. The capacity of the application can be adjusted as per client interest. It can add some more noteworthy factors or fashioned off some trademark which is presently not generally helpful for the client. As it were, the application can be variable relying upon the interest of the client. Clients can book the café space prior to arriving at cafés.

- Customers can arrange food 30 minutes sooner than arriving at the cafés.
- Allow clients to modify food requests and reservation frameworks • Allow saving installment subtleties for sometimes later.
- Allow to deal with a request as a visitor. Permit to find and picked a close by eatery.
- Integrate with in-store contact show screen gadgets like iPad, cell phone, tab, and so forth

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