

**FOODIES: A REALTIME FOOD DELIVERY APP**

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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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**DAFFODIL INTERNATIONAL UNIVERSITY**

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## **APPROVAL**

This Project titled “**FOODIES: A REALTIME FOOD DELIVERY APPLICATION**” ,submitted by Md.Raihan Haque ,A Al Mahmudul Hasan ,Mohabbat Hossain Sarker and Susmita Bhowmik to the Department of Computer Science and Engineering, Daffodil International University, Is labeled as Accepted for Full filling a requirement for the degree of B.Sc. in Computer Science and Engineering (BSc) and approved as to its style and contents. The presentation has been held on 10 December 2018.

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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **ShaonBhattaShuvo, Seniorlecturer,** Department of Computer Science and Engineering, Daffodil International University. We 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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Finally, We would like to express our gratitude towards our parents & our supervisor **Shaon Bhatta Shuvo** for their kind co-operation and encouragement which helped us in completion of this project.



## ABSTRACT

Our world is evolving fast we will have to update ourselves to stay in pace with this fast world. An android based smart phone is in hands of lots of people nowadays. People are using it as a tool to improve their life. By keeping this in mind we wanted to help people to ease their life. In our Dhaka city lots of people can not find their desired restaurants so that is why we came up with this idea. Our project Name is "**FOODIES:A REALTIME FOOD DELIVERY APP**", by the name of our project we can easily assume that this project is about Food delivery. And this is the main purpose of our project. An android application for Food delivery is definitely going to help people in any situation. One of the major feature of our application is ordering food, by this feature user can make desired Food order from nearby restaurants, from any place. User can view and cancel the order. They can see the nearby appropriate restaurants contact number, their location and easy route to go there. We are using XML for frontend of the project and we will be using java and database for the back end of the project. This will definitely put some great look to our project. Java is also good to implement some extra features to our application.





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# CHAPTER 1

## Introduction

### 1.1 Introduction

Our life is full of difficulties. Suppose we want eat food and we are hungry and tired also after full days of work. Making the food while one is tired will be a very difficult job. Our project aims to reduce this difficulty. Our civilization is built by every people. Everyone contributes to the society. Some people are busy with making furnishes, while other people are busy in making Food, Clothes. In our app a user can search for nearby food shops. Then the user can select a restaurant. After selecting a restaurant User can choose food and then place order. After ordering the food a notification will be sent to user mobile. After that the user will enter the authentication number he gotAnd then the food order will be placed and delivered to his door after some minutes.

### 1.2 Motivation of work

We will be starting the motivation of my project with my story. We are student of daffodil international university. We have to do the tiring work of attending class of various subjects. After also doing preparations for examsWe become very much tired and exhausted. Wecan not do anything after that. We become very hungry. We could not find tasty foods of my choice near me. Actually We didn't have the knowledge of what kinds of food We have near my place. So We wanted to solve this problem for ourself and mass people around me. So We designed this app. After completing the app Weare very happy to get proper food of my choice without much work. I don't have to go out in search of food anymore . I can now do it by using this app very easily.

### **1.3 Objectives:**

Develop an app for the use of general people. Enable users to Order food without any hassle. Deploy a manual payment system for food. Only Register user can get all convenience. User can give Order using Smartphone. Restaurants can see the orders. User can give Feedbacks.

### **1.4 Expected Outcome**

The purpose of this app is to make a App to reduce the daily hassle of people of the Dhaka city. People can now select their desired food from the list of foods. By submitting the information about the order the user can get the delivery of the food. The order will be dynamically sent to the restaurants, so that they can deliver the food in time. This will be a social service app and people will be happy to use it as it will be very efficient and save people's time. One of the great things in our app is that we are giving so much service in only one app so people will be using less apps for use. So it will eventually save the memory space of the android phone allowing it to work very fast.

### **1.5 Report Layout**

In Chapter 1 We will discuss about many things in this chapter like motivation expected outcome and objectives of the project.

In chapter 2 we will be discussing about our project scope, compare with other candidate systems and the challenges of the project.

In Chapter 3 we will be discussing about requirement collection and analysis, business process modeling and project description. We will also discuss about logical data model and the design requirements.

In chapter 4 Frontend, backend designs, test implementations, interactions all will be discussed in this chapter.

In chapter 5 we will be discussing briefly the backend database, UX and the implementation requirements.

In Chapter 5 How the app is implemented will be discussed here. In this Chapter we will briefly describe the overall implementation of our application project.

Chapter 6: Conclusion and Future Scope

In this chapter we will be discussing how we can improve the app. Suggestions will be given how we can improve the app.



## CHAPTER 2

### Background

#### 2.1 Introduction

In this chapter we will be discussing our app and comparing our app with the other apps which are now live in google playstore . How our app is different from all the other apps will be discussed here. After comparing the app with . There are lots of problems in the existing applications which we will briefly describe in this chapter. the scope of the problem and the challenges will be also described in this chapter briefly.

#### 2.2 Related Works

This chapter will be based on the common features all the other apps have and what is new and interesting in our app. We will be talking about such apps which are already in google playstore and will be talking about their flaws and mistakes and how our app overcomes them with great implementations and works. So it will be the chapter which describes all that in formation about which we ned to know to prove that our app is better than all other apps now in the google playstore.

**Information base application:** Our app will be providing information about nearby restaurants and other information like the food price and category of food.

**Service based application:** Our app will be totally based on the services we provide to the people of a certain area.

#### 2.3 Comparative Studies

Table 2.1 Comparative Studies

In this table we will be showing the comparisons of different kinds of apps and will discuss with our apps also. We will see the differences and similarities between the apps.

Parameter	Food mania	Food bank	Food Fiesta	Food traveller	Foodies our project
Size of the app	3.5mb	5.87mb	1.27mb	893 kb	14.11mb
Availability	Play store	Play store	Play store	Play store	Developer Version(1.0)
Focus group	Restaurant contact list	Restaurant address	Personal Info and Restaurant contact list	Restaurant contact list according to their specialization	Nearby food delivery system shows restaurants emergency phoe numbers route finding ,view location
Features	<ol style="list-style-type: none"> <li>1. User can view restaurant information only</li> </ol>	<ol style="list-style-type: none"> <li>1. See all Dhaka restaurant contact number address</li> <li>2. Emergency call center</li> </ol>	<ol style="list-style-type: none"> <li>1. user can view restaurants profile</li> <li>2. See desired cooks and restaurant info.</li> <li>3. emergency call center</li> </ol>	<ol style="list-style-type: none"> <li>1. User can see cooks profile with specialization.</li> <li>2. User can call or message to the numbers.</li> <li>3. User can see the restaurant</li> </ol>	<ol style="list-style-type: none"> <li>1. Every features of existing applications are included.</li> <li>2. Using one app users can get all services.</li> <li>3. Users can see the restaurants near him.</li> <li>4. can take appointment</li> </ol>



## **2.4 Scope of the Problem**

Our main focus is to develop an application for the users which will help the users to get all Food related or we can say restaurant related help in one Application. The applications that we examined has the solutions the user desires but we can see that the applications does not have all the features a user desires, the also doesn't have some useful features that is much needed and will make the user experience much better. We can see that the applications that we examined are not user friendly. User experience is a great feature that adds much more value in the application.

a user can not be satisfied if he can not get the desired features in one app. The user needs to install multiple applications for getting desired information, which is pretty boring if we can see it from a users perspective. This is exactly the reason why we are trying to make an app that will be sufficient and provide all the convenience and desired information to the clients or we can say the users. The most important part of the application is that the user will be seeing nearby restaurants location.

## **2.5 Challenges**

There will be challenges and obstacles that we will have to face while making this application. We faced many problems as we are newbie at developing android application. We had to master the art with sheer dedication and hard work. After developing the application we have tried to remove all the bugs and test the application; There are are many application at the international level. We will have to compete with them. timely food delivery should be ensured. So these tasks will be challenging for us to do.

## CHAPTER 3

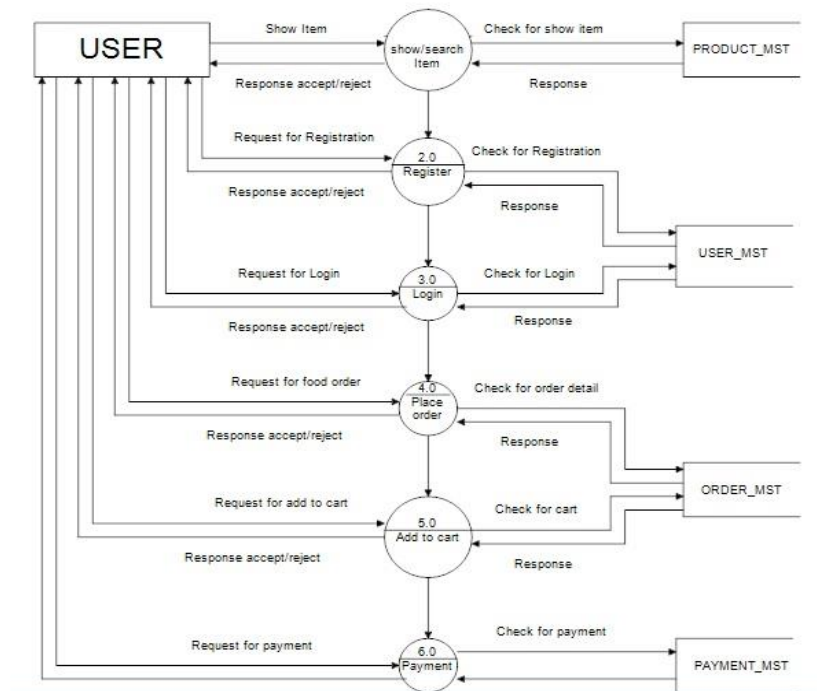
### Requirement Specification

#### 3.1 Business Process Modeling

the process of the system is portrayed by the use of business process modelling. This will help us later to improve the system by analyzing and automation. Data flow diagram is the way to know how the data is processed inn our application. It is ver useful, so we will be using this to describe our business process model of our application .The data flow diagram of our system is given below.

Figure 3.1 this figure shows the business process modeling of the application

Figure 3.1: Business process model.



#### Waterfall Model

waterfall method is a way to build software . It was one of the early models to be introduced in software development.The figure which describes the waterfall method is given below. In waterfall method first requirements of the project is taken to consideration. After properly

understanding requirements we go on to design the project, then we implement the project. After implementing the project we verify it. Later we have to do maintenance work.

Figure 3.2 this figure shows the software development methodology used in the project.

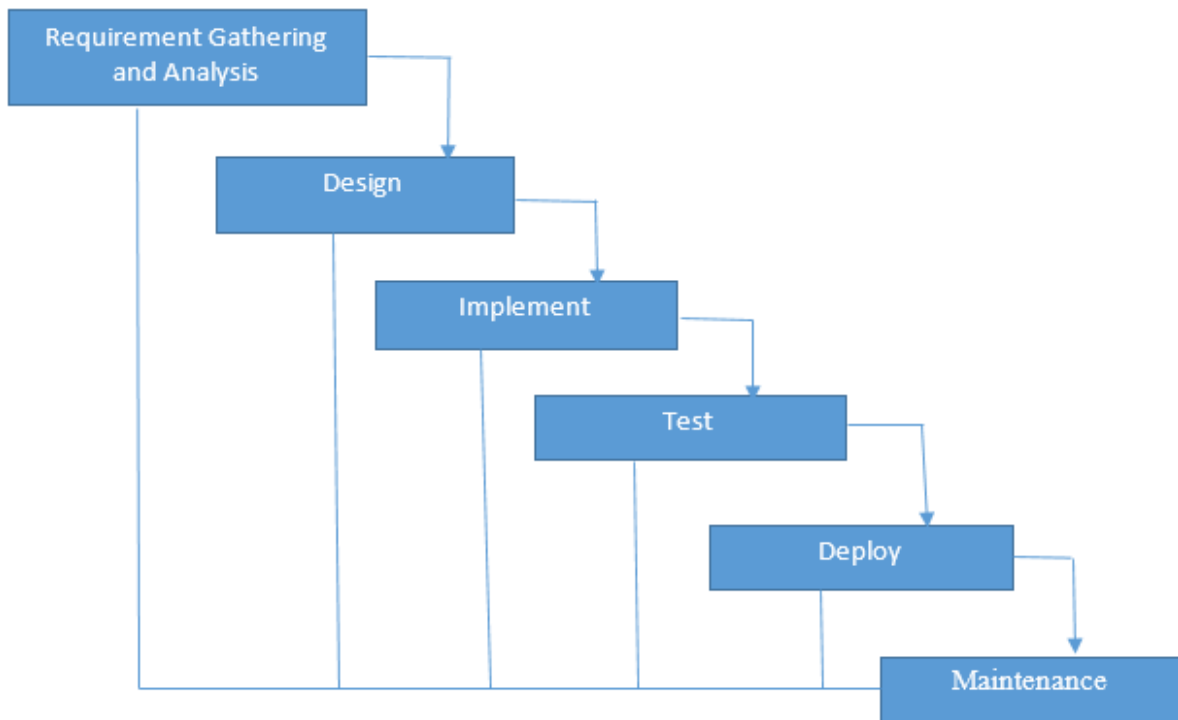


Figure 3.2: Waterfall method.

### 3.2 Requirement Analysis and gathering

When we want to develop a software, we must keep in mind that there are two kinds of requirement for developing a software project: one is nonfunctional requirement and another is functional requirement.

#### Functional Requirement

What kind of functions we will add to the system is functional requirement. We will impose an user registration system so it will verify whoever wants to access this application.

#### Non-functional Requirement

How fast the app works or how efficient is the app is a non functional requirement. Our user interface is beautiful, friendly and user experience is also good.

### 3.3 Use Case Modeling and Description

figure 3.3 shows the use case for the android app.

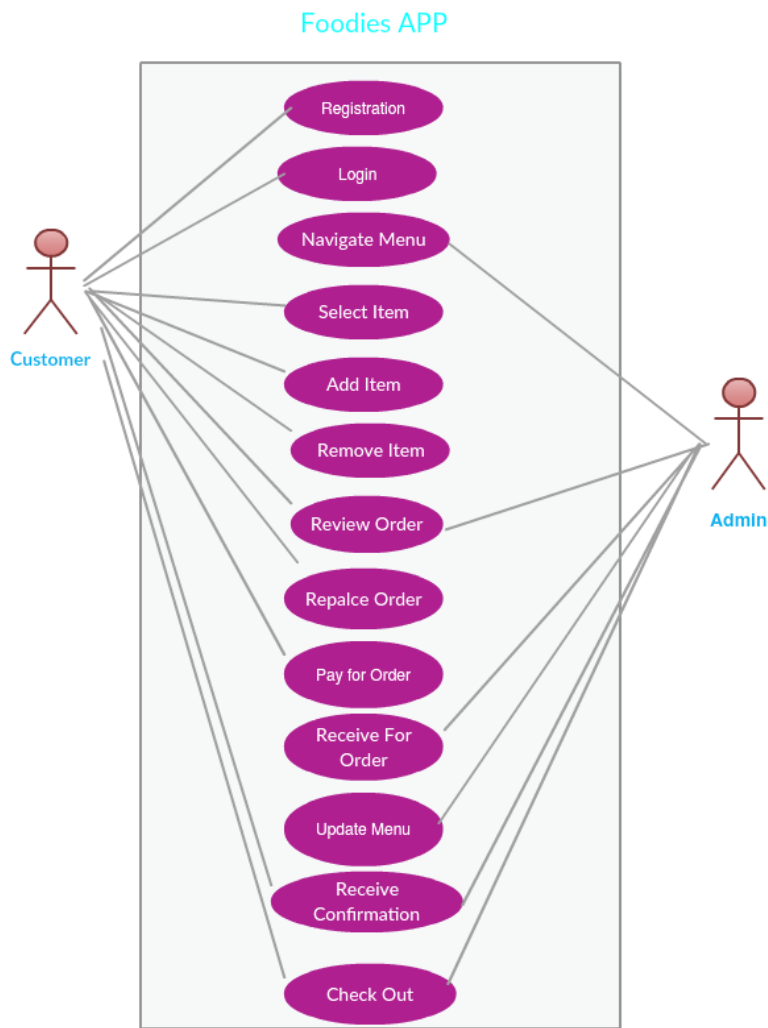


Figure : Use Case Diagram

Table 3.1: Use case description of Registration

Use Case #01	Registration
Primary Actor	User

Secondary Actor	Null
Pre-condition	Null
Scenario	<ul style="list-style-type: none"> <li>• Enter valid full name</li> <li>• Enter valid email address</li> <li>• Enter password minimum of 6 character</li> </ul>
Post-condition	<ul style="list-style-type: none"> <li>• Registration successfully or failed</li> </ul>

Table 3.2: Use case description of Login

Use Case #02	Login
Primary Actor	User
Secondary Actor	Null
Pre-condition	Registration
Scenario	<ul style="list-style-type: none"> <li>• Enter valid email address</li> <li>• Enter password</li> </ul>
Post-condition	<ul style="list-style-type: none"> <li>• Login successfully or failed</li> </ul>



Table 3.3: Use case description of Homepage

Use Case #03	Homepage
Primary Actor	User
Secondary Actor	Null
Pre-condition	Login
Scenario	<ul style="list-style-type: none"> <li>• Access Nearby Hospital             <ul style="list-style-type: none"> <li>• Able to take Doctor Appointment</li> </ul> </li> <li>• Access View Appointment</li> <li>• Access Health Tips</li> <li>• Able to send feedback message</li> <li>• Access About Us</li> </ul>
Post-condition	<ul style="list-style-type: none"> <li>• Accessing successfully or failed</li> </ul>

Table 3.4: Use case description of Emergency map

Use Case #04	Emergency map
Primary Actor	user
Secondary Actor	Null
Pre-condition	Login
Scenario	<ul style="list-style-type: none"> <li>• View route</li> <li>• View nearby restaurant</li> <li>• View current location on map</li> <li>• View restaurant address</li> <li>• View user current location</li> </ul>
Post-condition	<ul style="list-style-type: none"> <li>• View on map successfully</li> </ul>



## CHAPTER 4

### Design Specification

#### 4.1 Front-end Design

Front end is a very important part of a software application. The user interacts with the software by using a front end. It is one of the most essential part of a software application. Building a clear and easy to understand GUI is needed to make a software application work. Therefore, We were very careful about designing UX/UI of the app. Front end design of our application is given below:

4.1 figure: it shows the First screen of our app.

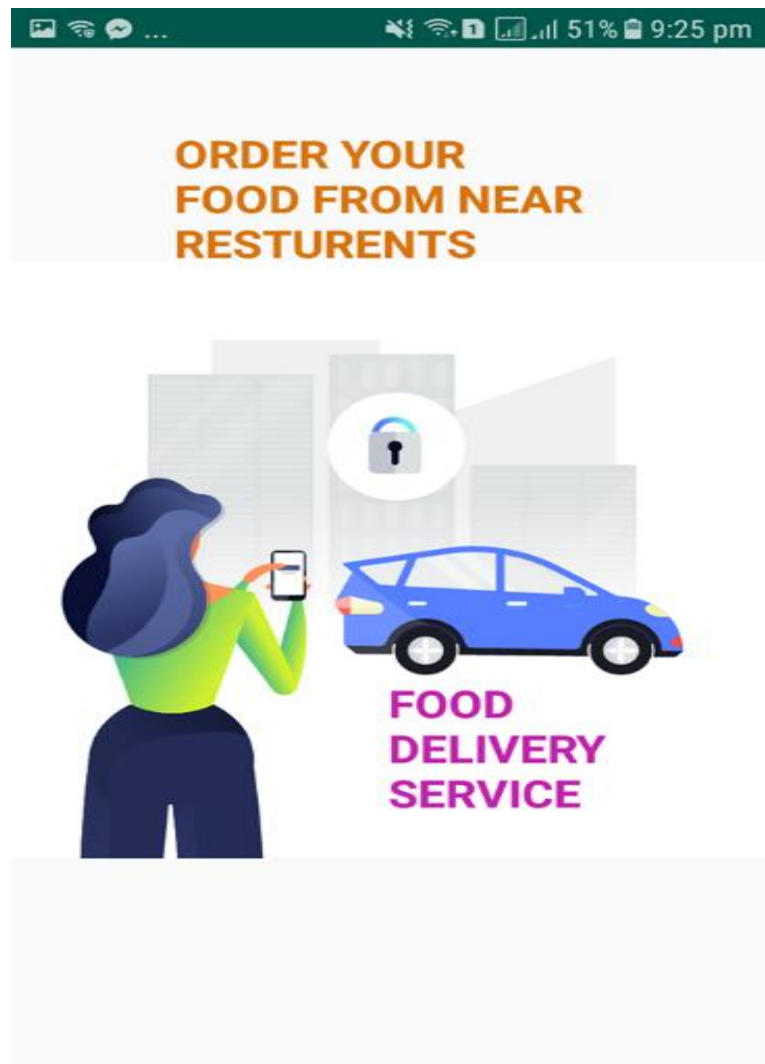


Figure 4.1: Splash UI

4.2 Figure: shows the Home screen of our application. If someone wants to use the application, they can come here and choose further option from here.

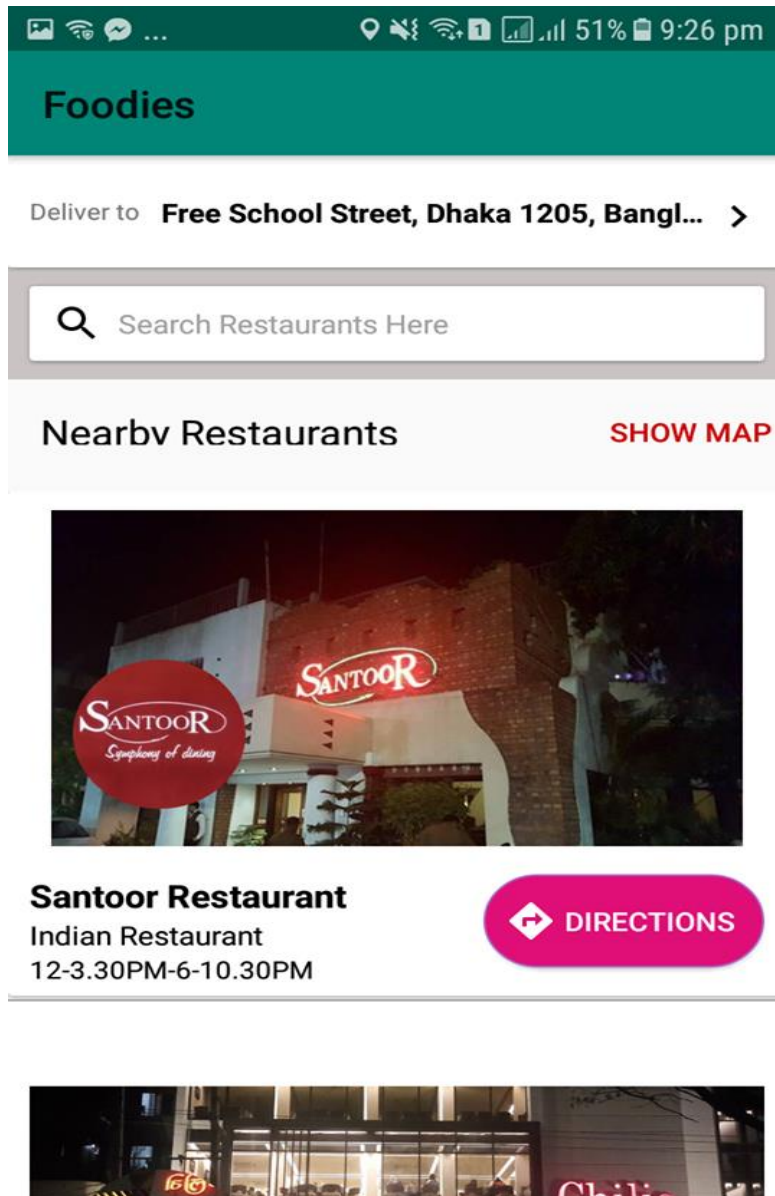


Figure 4.2

Figure 4.3 we will see some restaurants that we added

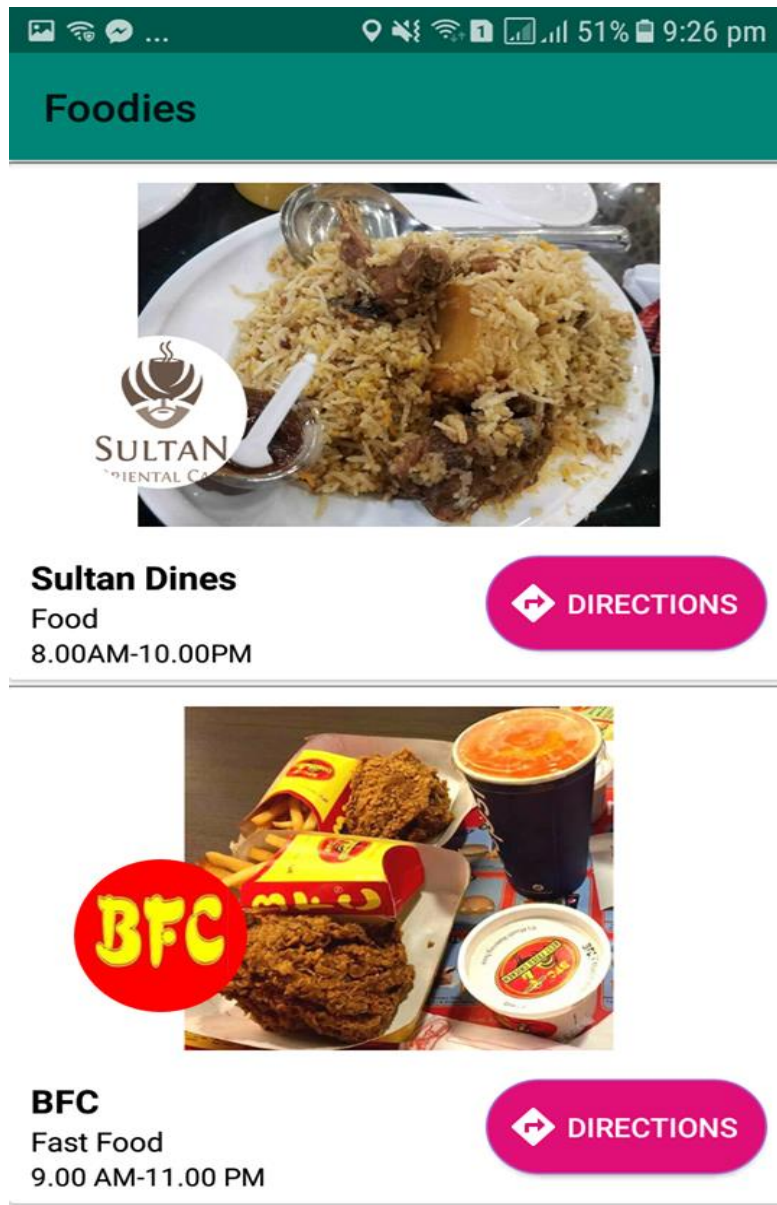



Figure 4.3


Figure 4.3(a) more restaurant

Foodies



**Hot Hut**  
Food  
10.00 AM-10.00PM

[DIRECTIONS](#)



**Tehari Ghor**  
Food  
10.00 AM-11.00 PM

[DIRECTIONS](#)

The image shows a mobile application interface for finding restaurants. At the top, there is a status bar with icons for location, Wi-Fi, cellular signal, and battery level (51%), along with the time 9:26 pm. Below this is a green header with the text "Foodies". The main content area displays two restaurant listings. The first listing is for "Hot Hut", featuring a photo of a plate of spaghetti with a glass of beer and a red circular icon with a white silhouette of a hot air balloon. Below the photo, the text reads "Hot Hut", "Food", and "10.00 AM-10.00PM". To the right of this text is a pink button with a white location pin icon and the word "DIRECTIONS". The second listing is for "Tehari Ghor", featuring a photo of a bowl of vegetable tihari with a white circular icon containing the text "Tehari on wheels". Below the photo, the text reads "Tehari Ghor", "Food", and "10.00 AM-11.00 PM". To the right of this text is a pink button with a white location pin icon and the word "DIRECTIONS".

Figure 4.3(a) more restaurant.

Figure 4.3(b) more restaurant

The image shows a mobile application interface for a restaurant discovery app. At the top, there is a status bar with icons for photo gallery, Wi-Fi, messages, location, and battery level (51%) at 9:26 pm. Below the status bar is a teal header with the word "Foodies" in white. The main content area displays two restaurant listings. The first listing is for "Al Araz", featuring a photograph of a dining room with tables and chairs, and a circular logo with a fork and knife and the name "ARAAZ". Below the photo, the text reads "Al Araz", "Food", and "10.00 AM-11.00 PM". To the right of this text is a pink button with a white location icon and the word "DIRECTIONS". The second listing is for "Pinewood Cafe N Restaurant", featuring a photograph of a cafe interior with a wooden table and a window view of greenery, and a circular logo with a tree and the name "Pinewood". Below the photo, the text reads "Pinewood Cafe N Restaurant", "Restaurant", and "11.00AM-11.00PM". To the right of this text is a pink button with a white location icon and the word "DIRECTIONS".

**Foodies**

**Al Araz**  
Food  
10.00 AM-11.00 PM

**Pinewood Cafe N Restaurant**  
Restaurant  
11.00AM-11.00PM

**DIRECTIONS**

**DIRECTIONS**

Figure 4.3(c) more restaurat

Figure 4.3 (d) more restaurant.

Foodies

**Cilantro**  
Chinese  
10.00 AM-11.00 PM

**Bheja Fry**  
Chinese  
10.00 AM-11.00 PM

Figure 4.3( d) more restaurant.



Figure 4.4 :In this figure we will see the different food categories each restaurant has.

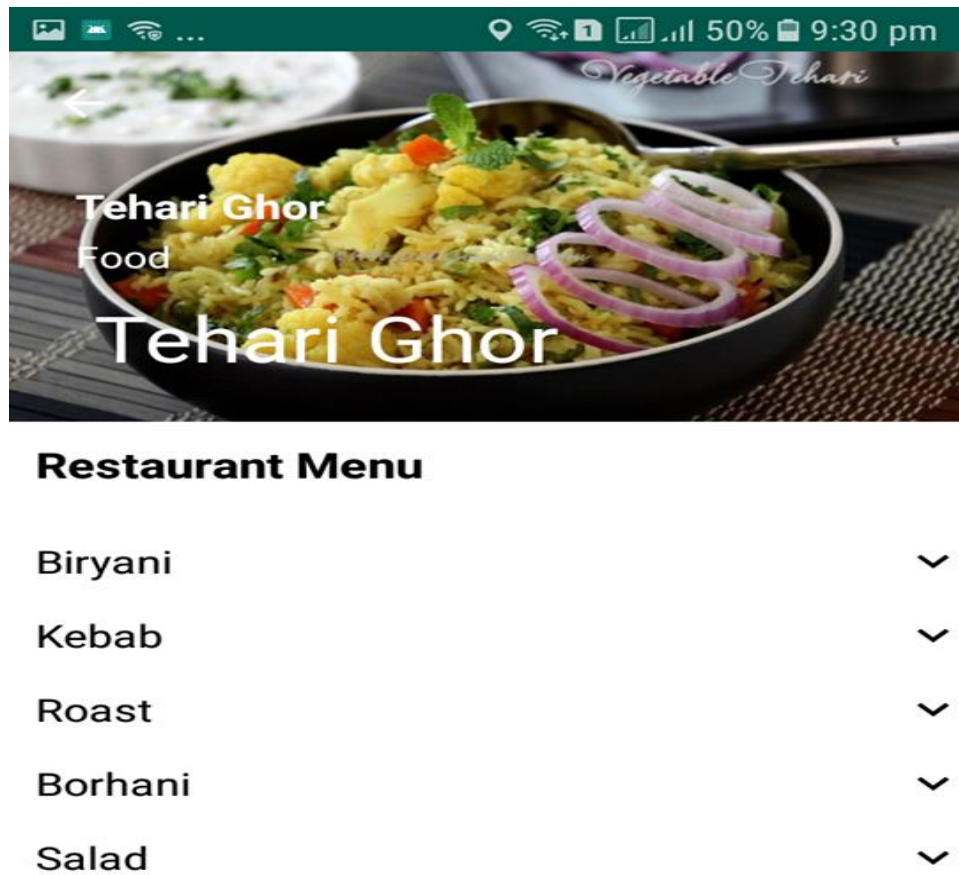


Figure 4.4 food category

Figure 4.4(a) more restaurant.



### Restaurant Menu

- Biryani ▼
- Burger ▼
- Rice ▼
- Drinks ▼
- Salad ▼
- Biryani ▼
- Kebab ▼
- Borhani ▼
- Drinks ▼

Figure 4.4(a) more category

Figure 4.5: Now we will see in this figure the foods ,the food categories have.

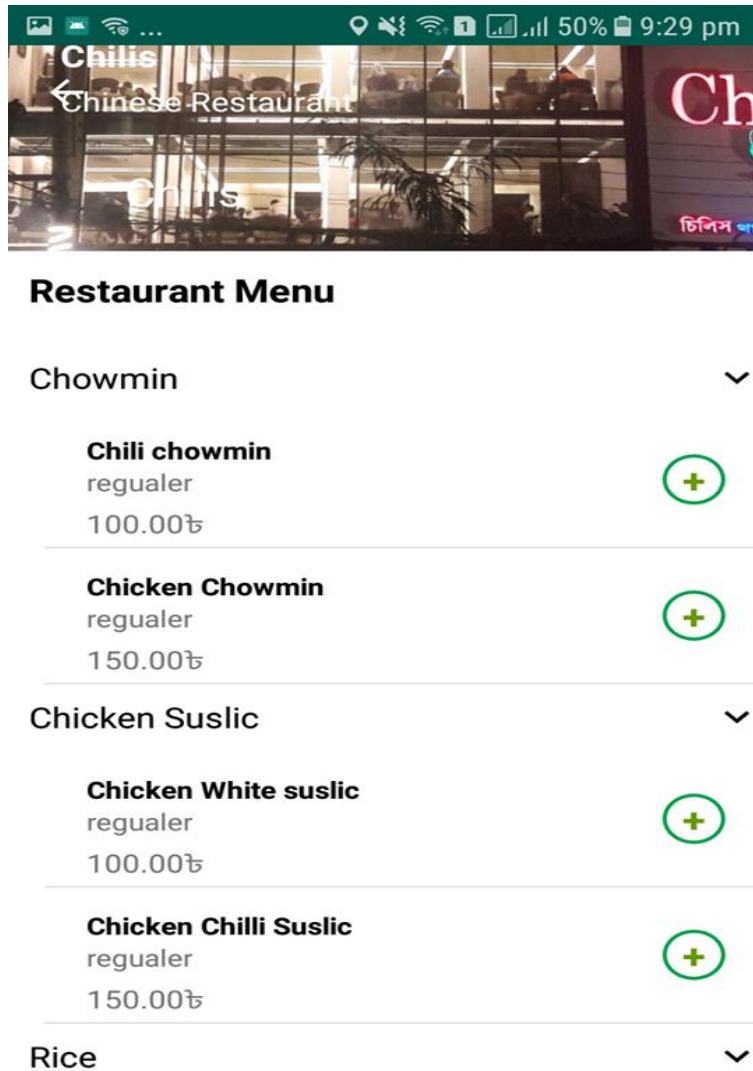


Figure 4.5

Figure 4.6 Now we will see the payment cart after we have selected our foods.

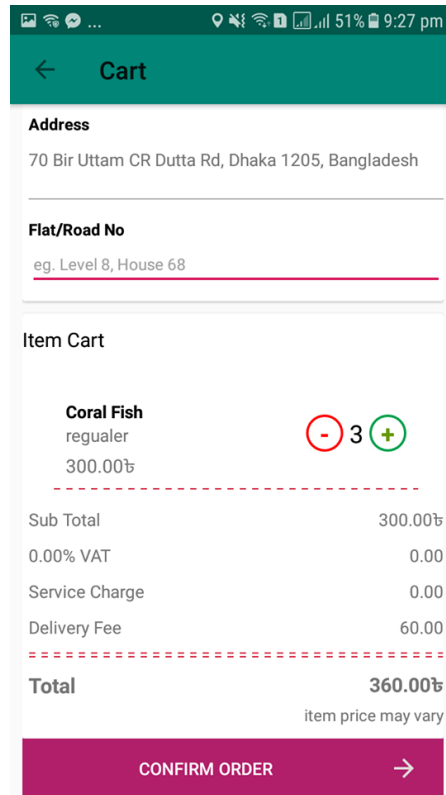


Figure 4.6

## 4.2 Back-end Design

What happens behind the UI is the backend of the project. Backend part of an application can not be seen by the user. Front end design is the only way user can interact with the backend. The users cant have any idea how the backend of a software project is working. Doing the required tast in the server and handling database is the responsibility of backend. Components in an android device is limited so it is harder to do backend off android application than the web application. Our backend is simple and easy to understand. Firebase is used in our application to handle the back end we have also did the backend hosting by 000 webhost website. Figure 4.9 Firebase Database user table is shown below. People who are using our application or logged into our application is shown in the table.

Authentication Web setup

Users Sign-in method Templates Usage

Search by email address, phone number, or user UID Add user ↻ ⋮

Identifier	Providers	Created	Signed In	User UID ↑
shuvolo05@gmail.com	✉	Jan 23, 2018	Jul 26, 2018	IPVo16iaVgcEE7SSv802b6bVoQ73
rahatmahbubani@gmail.com	✉	May 19, 2018	May 19, 2018	aMuVtyxeSZVojJd6GYYO0hsrzCP2
mu812188@gmail.com	✉	Jan 23, 2018	May 18, 2018	gCNe4TH5cVURoBofUFd4qdVPYJ...
shuvo3465@diu.edu.bd	✉	Jun 27, 2018	Jun 27, 2018	ogORR60yDycUoc5dDm4G5AL3e0...
kamrulhasan3288@gmail.co...	✉	Jul 23, 2018	Jul 25, 2018	qeuBIBsxAoY71hcpAU6OHxonLJ2

Rows per page: 50 ▾ 1-5 of 5 < >

Figure 4.9: User Table

## CHAPTER 5

### Project Implementation and Testing

#### 5.1 Implementation of Database

We will discuss about how the database is implemented in this chapter. We will use firebase database for this chapter. Firebase has realtime feature in it. It can also host and cloud report. We will not use sql queries as firebase is a realtime database.

##### 5.1.1 Database Design

There are some rules in firebase which suggests us where our database files can be written to. By using the authentication we can control who can access our database or see app information. It is a no SQL and realtime database. Fire base structure is different from relational database. Realtime database can bear millions of requests from the users without compromising the response time and quality .

##### 5.1.2 Storing Process of Data

First a user must sign in for using the app. There are several process to sign in. A User can sign in by using phone/email/Facebook.

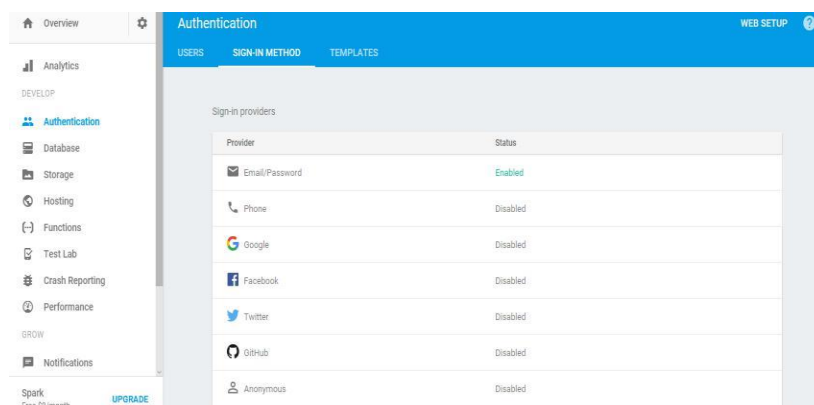
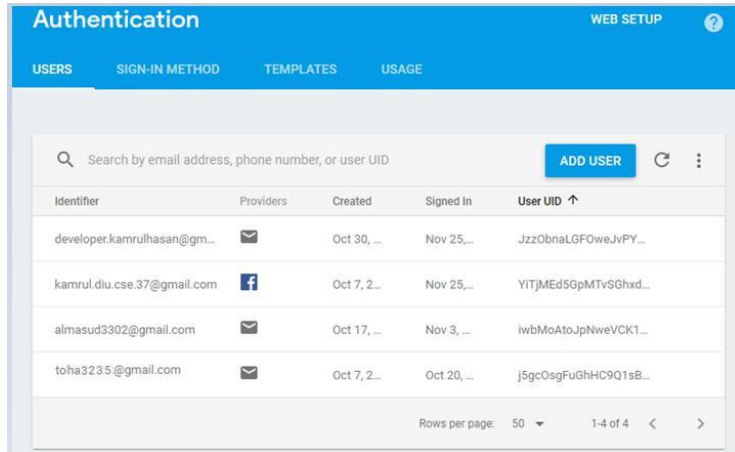


Figure 5.1: Authentication Choice

Registered users are stored in our database. No one can login to our system without authentication. Firebase makes sure no one gets access without proper username or password..

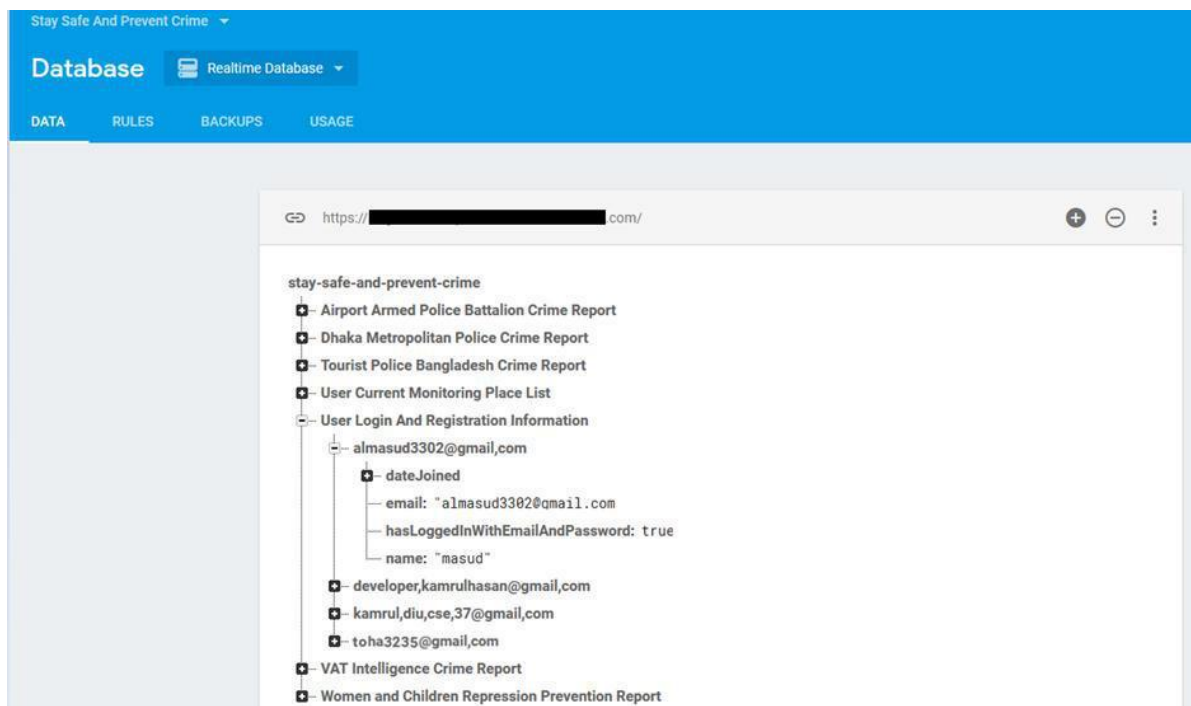


The screenshot shows the 'Authentication' console with a table of users. The table has columns for Identifier, Providers, Created, Signed In, and User UID. There are four users listed.

Identifier	Providers	Created	Signed In	User UID ↑
developer.kamrulhasan@gm...	📧	Oct 30, ...	Nov 25, ...	JzzObnaLGFOWeJvPY...
kamrul.diu.cse.37@gmail.com	📘	Oct 7, 2...	Nov 25, ...	YITJMEd5GpMTvSGhxd...
almasud3302@gmail.com	📧	Oct 17, ...	Nov 3, ...	iwbMoAtoJpNweVCK1...
toha3235@gmail.com	📧	Oct 7, 2...	Oct 20, ...	j5gcOsgFuGhHO9Q1sB...

Figure 5.2: Identification Store

All registered users has their own unique UID and user table. There is a separate user table for each user.



The screenshot shows the 'Database' console with a tree view of data. The root node is 'stay-safe-and-prevent-crime'. It has several child nodes, including 'User Login And Registration Information'. This node has four child nodes, each representing a user's data.

```
stay-safe-and-prevent-crime
├── Airport Armed Police Battalion Crime Report
├── Dhaka Metropolitan Police Crime Report
├── Tourist Police Bangladesh Crime Report
├── User Current Monitoring Place List
├── User Login And Registration Information
│   ├── almasud3302@gmail.com
│   │   ├── dateJoined
│   │   ├── email: "almasud3302@gmail.com"
│   │   ├── hasLoggedInWithEmailAndPassword: true
│   │   └── name: "masud"
│   ├── developer,kamrulhasan@gmail.com
│   ├── kamrul,diu,cse,37@gmail.com
│   └── toha3235@gmail.com
├── VAT Intelligence Crime Report
└── Women and Children Repression Prevention Report
```

### 5.3 FIGURE : User Information

With a unique UID unique user id is given to the user who logs in the app. Information of a user will be put into a table in the database.

### **5.2 Implementation of front end design**

Attractive user interface attracts users, so it is an important thing. User first notices the frontend design. There are android devices of different sizes. Some have large screens, some devices are equipped with heavy hardware and some are too small. Front end is a very important part of a software application. The user interacts with the software by using a front end. It is one of the most essential parts of a software application. Building a clear and easy-to-understand GUI is needed to make a software application work. Therefore, we were very careful about designing UX/UI of the app. Front end design of our

### **5.3 Project Implementation and Interaction**

If the user interaction is good, the system is good. Interaction makes a system popular. Our application is successfully implemented and has impressive interaction with the users.

### **5.4 Project Testing Implementation**

Table 5.1: Testing Implementation

We will now test the implementation of the system, the test results are given below.



Test Case	Test Input	Expected Output	Actual Output	Result	Tested On
1. Install Application	Test is performed on various android versions	installed	Install performed	Passed	09/11/18
2. Registration	Not registered access.	Access restricted	Restriction done	Passed	09/11/18
3. Email or Password	Incorrect password incorrect email	Correct email and password must be provided	Warning shown	Passed	09/11/18
4. Password	incorrect password.	Showing warning	warning.	Passed	09/11/2018
5. Homepage	Provide username password	Show Homepage	Homepage shown	Passed	09/11/18
6. Restaurant list	Click on restaurant icon	For showing show the restaurant list.	Showed the restaurant list successfully.	passed	09/11/18
7. Map feature	Click on the map button.	Show the map	Successfully showed the map feature	passed	09/11/18







## CHAPTER 6

### Conclusion and Future Scope

#### 6.1 Discussion and Conclusion

An android based smart phone is in hands of lots of people nowadays. People are using it as a tool to improve their life. By keeping this in mind we wanted to help people to ease their life. In our Dhaka city lots of people can not find their desired restaurants so that is why we came up with this idea. Our project name is “FOODIES:A REALTIME FOOD DELIVERY APP”, by the name of our project we can easily assume that this project is about Food delivery. And this is the main purpose of our project. An android application for Food delivery is definitely going to help people in any situation. One of the major feature of our application is ordering food, by this feature user can make desired Food order from nearby restaurants, from any place. User can view and cancel the order. They can see the nearby appropriate restaurants contact number, their location and easy route to go there. We are using XML for frontend of the project and we will be using java and database for the back end of the project. This will definitely put some great look to our project. Java is also good to implement some extra features to our application.

#### 6.2 Limitations

There are some limitations in our application. We have pur efforts to reduce the limitations.

Some of the limitations are:

- Connection with internet is a must need.
- GPS should be used.

#### 6.3 Scope for Future Developments

- In future it will work on all platforms.
- notification system will be added .
- calling system will be added.
- update for this application will be provided.
- System will implement new UI if most of the users recommend it.



## Appendix A: Related Applications

Table Appendix B: Related applications

SL NO	Name	Downloads	Rating	Feedback
1	Food bee [1]	697	4	-has some major bug. -easy to use it.
2	Dhaka restaurant finder [2]	4279	4.5	-need more user friendly feature. -app crashes
3	Foodman [3]	1124	5.0	- user friendly. -need to add offline version.
4	Hakka square [4]	69	4.8	-very helpful.
5	Food bank [5]	4369	4.6	-need to change the color of UI. -no call option.

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