

Android Based Application: Food Town

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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MAY 2019

APPROVAL

This Project titled “**Food Town**”, submitted by Md. Raisul Islam, ID No: 152-15-5535 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 4th May, 2019.

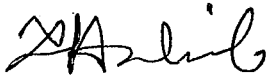
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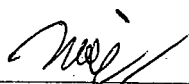
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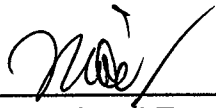
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DECLARATION

I hereby declare that, this project has been done by us under the supervision of **Moushumi Zaman Bonny, Senior 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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ACKNOWLEDGEMENT

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

I am really grateful and wish our profound our indebtedness to **Moushumi Zaman Bonny, Senior Lecturer**, Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of “Android App development” 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.

I would like to express our heartiest gratitude to **Dr. Syed Akhter Hossain, Professor 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.

I 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 patience of our parents.

ABSTRACT

“Food Town” is an android application for those people who are hanging out with friends or family members in outdoors and go for food in restaurants. This App is also for them who want to eat food with offer. User will get the accurate information of offers and exact location of specific restaurants of that particular food item. Restaurant owner also can use this App as their marketing canvas. The main purpose of this project is to make a platform and give all the offers and information to people where a user can find offers to take his food and can share his/her experience with others. User will also get the exact location of any particular offer to find that restaurant/cafe. If there are multiple outlets of any restaurants, he/she will get all the locations of outlets ascending to the closest distance. This project will make an easier way for restaurant marketing. Restaurant Owners can promote their restaurant offers via this platform. They have to send their detail offer to “Food Town” team. Food Town team will add their offer ads on the app server so that user can get it. My vision is to make a strong connection between restaurant owners and customers in one platform with profitable business.

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CHAPTER 1

Introduction

1.1 Introduction

Modern technology is improving day by day in all sectors. Everyone is experiencing technology in different ways to make life easier. Advertising platform changed its way [1]. Android application has also become a tremendous part of people because of its user friendliness.

This Project title “Food Town” is an Android based Advertising application for the Businessmen and at the same time a delightful service app for the Users/People. This is a platform where s restaurant owner can advertise or promote his/her restaurant offers to the customers and customers have also different options to choose the perfect one which is needed. It will do a low cost marketing/advertising of business owner with full efficiencies and flexibilities and also be time saving, accurate and helpful for users.

1.2 Motivation

Food is a compulsory element. In this time everyone wants to hang out with friends and having delicious food. They used to turn on their social sites in order to search food menu or item. But this process is lengthy and typical.

One year back I was with my friends to have food after university class. We didn’t know where we should go or which food would be suitable for us in terms of price/cost. For that reason we had to check out all the social sites lead to find one option. On that time this Idea came on my mind that can be profitable and useful. I analyze this idea by researching about some platforms in market which are related with food to make it happen.

1.3 Objectives

The principal objectives are to ensure proper promotion of the offers, make business profitable and make a reliable platform for users or food lovers who want authentic foods with less cost. Another major objective is building a trustworthy relationship between restaurants and customers. Creating a new market of advertising and promotion is another objective. Build up relation with customers by interacting day to day updates of latest offers and trendy food items. This platform will create a low budget promotion field with the full efficiency.

1.4 Expected Outcome

Expected Outcome of this project is to make reliable food offer zone for the users. It can reduce cost of Advertising of the restaurants. Make a User Choice Platform is a significant part of it. This will be made trustworthy customers and a profitable Business for the Restaurants. Introducing with new foods, services are also significant. This will help to meet customer's demand. Food Town will save peoples time when they seeking offers. Day to day update of contents will create a new era in Food Related application.

1.5 Report Layout

The report layout is organized as follows: In chapter two, I discussed about the related works that are already implemented and doing business presently in the market. And I made comparison of my project with them according to the service. I have found the problem of current system and tried to make a solution. The Challenges I have faced for completing this project also discussed in this chapter. In chapter three, I focused on requirement specification. It also includes business process model, use case diagram, logical data model and many more that cover the whole chapter. I have tried to show the Front end design, Back end design and Interaction of design and User experience of this project in chapter four. As well as I listed the components that I used to build the system. The component part is denoted by implementation requirements. How I implemented this project, how it interacts with the database, implementation of Front-end Design, Testing reports and Test results is altercated in chapter five. I have explained the conclusion and the future scope of this project in chapter six. In the last segment of this report, there are Appendices and References.

CHAPTER 2

Background

2.1 Introduction

Proper study is the key. It is significant to inquiry a system background information that helped to figure out problems and helped to improve what is necessary, what to update, what to add new features in this Project. Initially making a user friendly interface where user may get attraction. The Principle objective of this project is to build a beneficiary platform for food lovers and restaurant owners. Realizing the people's demand and markets need is a tuff part for me. Investing time in researching and analyzing was very significant. Then I had to invest more time in selecting the front end design as it is a major part of interaction with the users. Primarily our app will assure that restaurant owners don't need to go outside for their promotion [2]. They can share their offers in "Food Town" platform. They can send their detail to app team. Admin will provide all the logistic support for promotion. By this time, a buyer/customer will get a lot of opportunities to choose his/her convenient item by comparing all the resources. After all, users will get authentic information and necessary helps from this Application.

2.2 Related Work

Due to research perspective, I reconnoiter some apps which are in service related with Food. These apps are almost similar but not similar with “Food Town” according to the content and service. But analyzing these apps helps me to build my project.

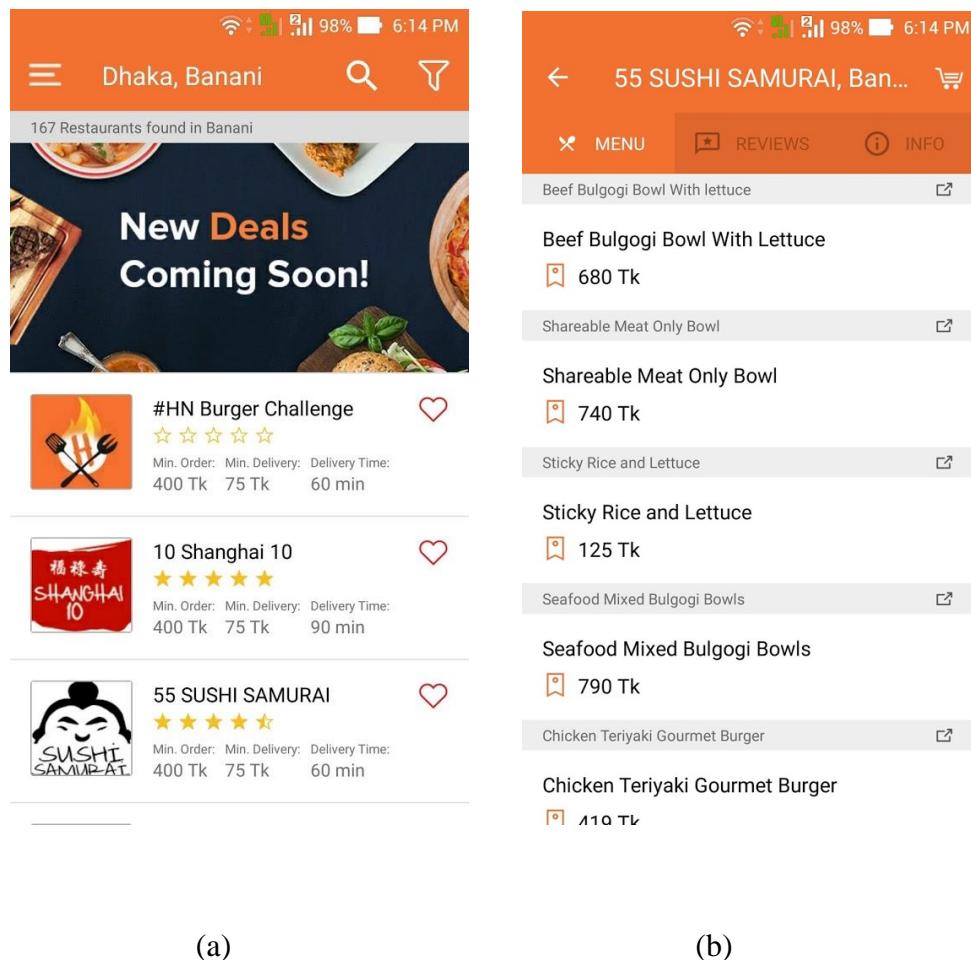
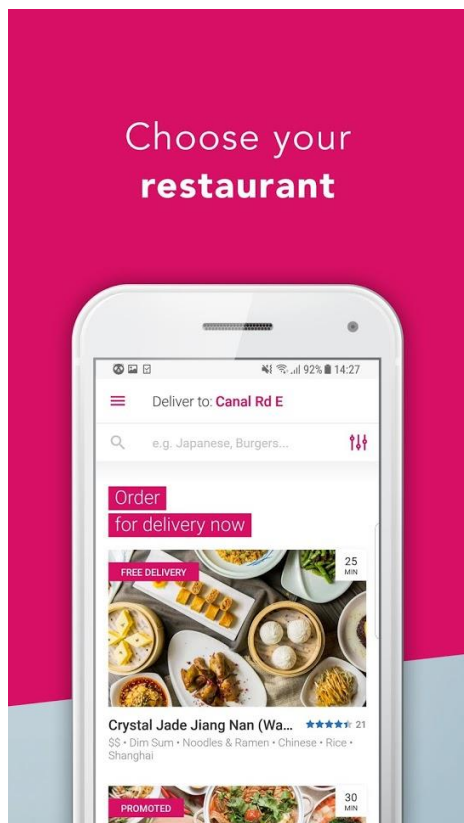


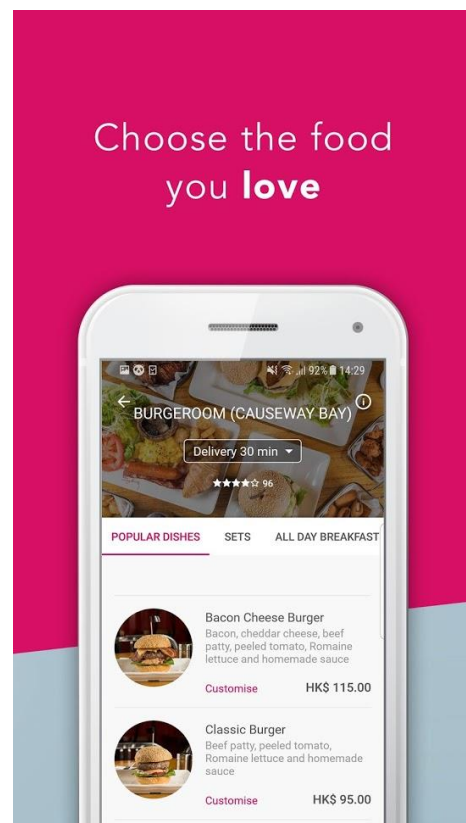
Figure 2.1: (a) and (b) Screenshot of some page of HungryNaki app

Hungrynaki.com is a 100% Bangladeshi Online Food Ordering and Delivery Service propelled in 2013 to convey sustenance's at doorsteps. [3] In my exploration I became acquainted with that they are energetic about nourishment and constantly brief to convey at whatever point the radar blips hungry. Come downpour, warmth and tempest their conveyance group will be at doorstep with a brilliant grin and holding sustenance.

Foodpanda is an international food home delivery service provider company. [4] They used to give the best service as usual. In the local market they are holding a big part of this business. Their business strategy is different. They take order from customer and deliver product in certain time by charging a delivery cost. User can go their app or website, choose restaurants or food and order it.



(a)

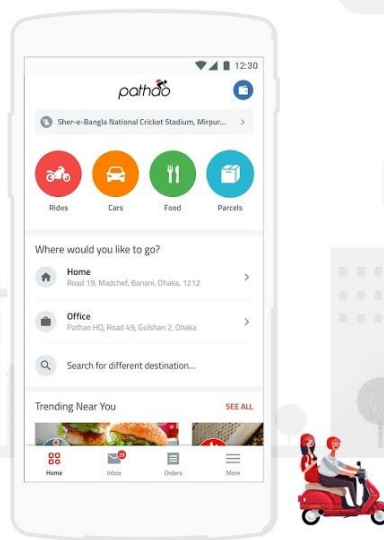


(b)

Figure 2.2: Screenshot of some page of (a) and (b) Foodpanda App

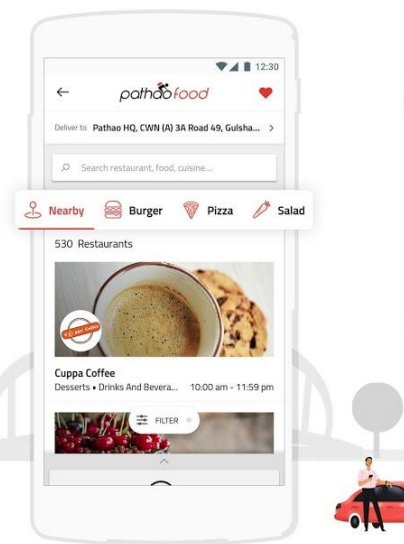
Pathao is a local company which is very much popular because of their ride service. [5] But pathao is also doing profitable business in food delivery with unique strategies. User can find their nearby restaurants and choose food and order to get delivery at home.

All Pathao Services in One Place



(a)

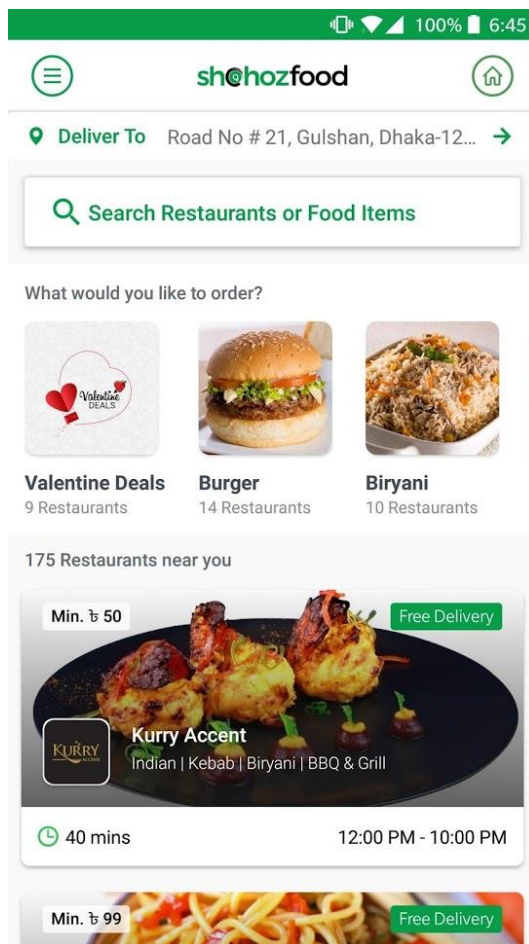
Food delivered easily Right at your door



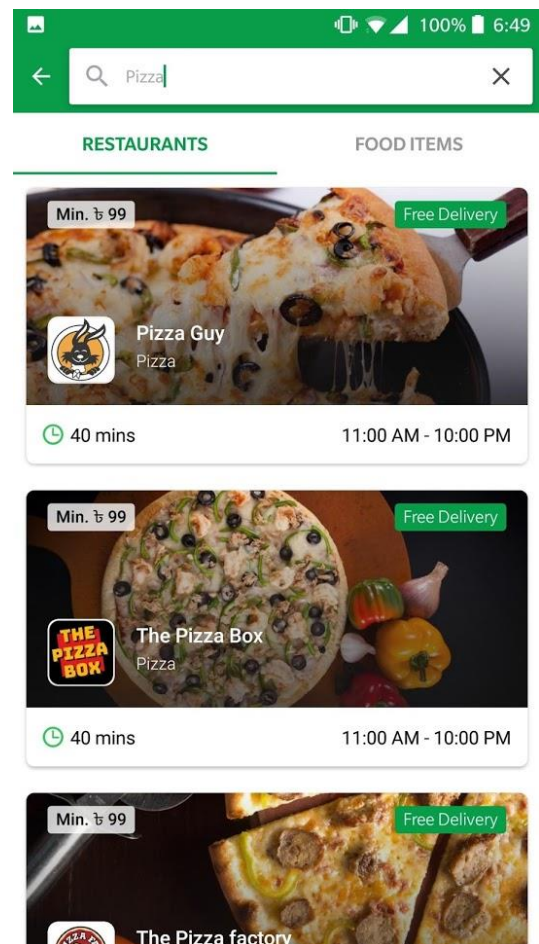
(b)

Figure 2.3: Some Screenshots of (a) and (b) Pathao Food App

Shohoz has multiple businesses like Pathao. Shohoz use perfectly their platform to reach targeted customers smoothly. [6] Using the fame of Shohoz Ticket service they grow food delivery business and make it popular and profitable. People use it in order to get short time delivery.



(a)



(b)

Figure 2.4: Some Screenshots of (a) and (b) Shohoz Food App

2.3 Comparative Studies

After comparing the above applications to my project, I can say there is something similar but not the main purpose of my project. HungryNaki work to deliver food. They have different restaurant's menu sets. User can choose one and order it for home delivery. On the other hand HungryNaki give some offer personally to the users in terms of different conditions. Food Panda almost do the same thing. Pathao and Shohoz food serve food according to item in the same way. They all have their own business model individually.

Comparing with these entire platforms I found "Food Town" is perfect idea to move on. Because no services are available in the market which provides the same service like this Project. Food Town will serve users by giving latest offers in various items with the exact location/address. Users can share their opinion in it. And Restaurant owners will get tremendous way to advertise their restaurants via offers in a low budget.

Finally researching these existing platforms, I can say my project goal and targeted customer is different from others.

2.4 Scope of the Problem

Independently businessmen are giving ads in various social sites and many other ways to promote their restaurants. Sometimes they get benefit sometimes not. Whole things are costly and inefficient. At the same time Customers who wants to have their meal outside, they don't have any easy and reliable source to know latest food offers which is needed. It's a problem. And where there is problem, there is hope what's I believe. I have focused here to simplify and increase the business of restaurants. There is a significant scope to reach the targeted customers and make a strong connection between restaurants and users by making both beneficiaries.

2.5 Secured System

User can add post to share experience of food in this project. For that purpose I had to careful about the security system of FOOD TOWN. Before entering this application every user will have to be registered first. Without registration no one will be allowed on this platform. And all the data of user registration strictly keep in safe and secret. So that users get a well-grounded platform to use. For securing users authentication data's are safe in firebase database.

2.6 Challenges

Implementing this type of project is big challenge for me. Researching the contents, interface was difficult. As this type of project is new in market, it needs full concentration for finding out the customer demands is major part. Similarly building an app for all stages customers is hard challenge. Because new users will need reasons to use it and at the same time restaurant owners have to convince about the possibilities of their business. Creating a user friendly and comfortable design for users, I tried my best to make it best so that users feel comfortable when they use this App. I had to learn more about the front-end and back-end [7] development for creating this project. With the learning I started developing this App. In the development time I have faced lots of error [8] and complex situation which help me to gain knowledge.

CHAPTER 3

Requirement Specification

3.1 Business Process Model

Business process model (BPM) is generally a diagram representing a sequence of activities. BPMN enables us to catch and report business procedures of an association in a reasonable and steady way, which guarantees applicable partners, for example, process proprietors and business clients are engaged with the procedure.[9][10]

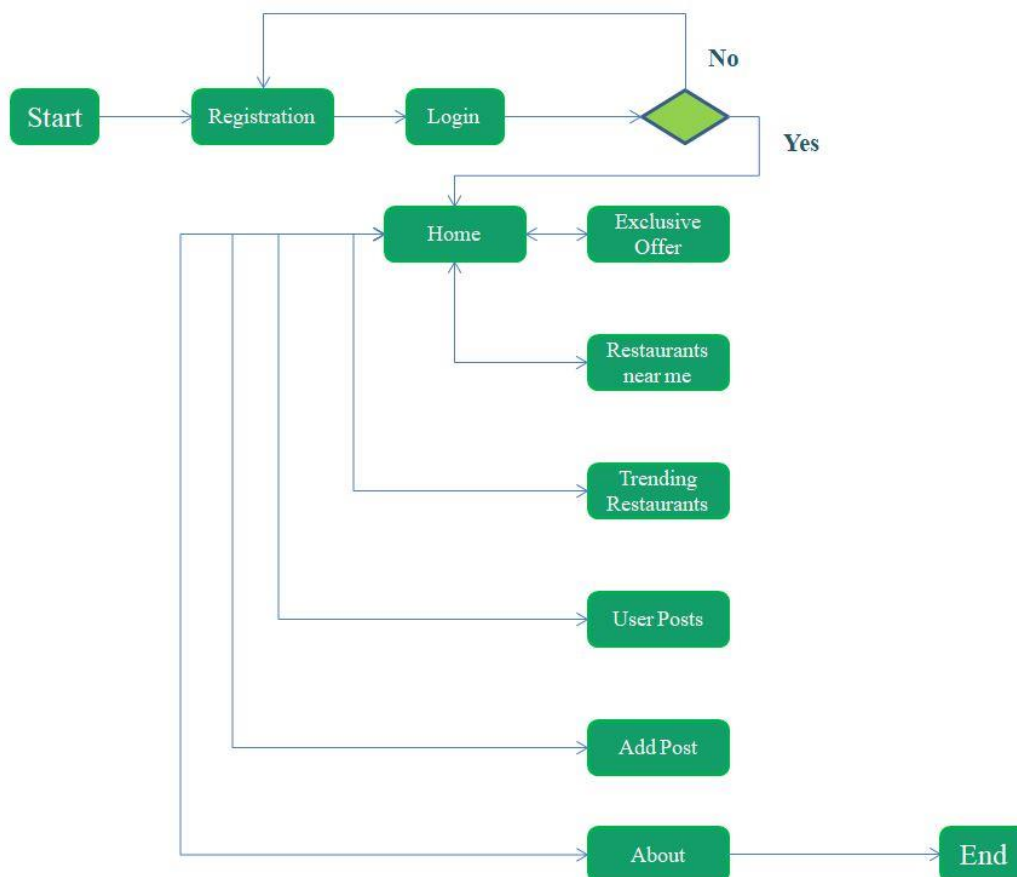


Figure 3.1: Business Process Model of Food Town

3.2 Requirement Collection and Analysis

Requirement collection and analysis is critical part for any undertaking. Necessities examination is likewise basic to the achievement or disappointment of a frameworks or programming venture. Without analysis, collecting data or a good planning, a project will never complete properly. If the required data and statistical analysis data is not suitable for any project, it will create a problem. Sometimes the project may not be fail, but it will create trouble Analysis and requirement collection was my big challenge, when I start thinking about this project. Most importantly requirement analysis is more significant in terms of market strategy and present circumstances. After start analysis we figure out some significant features that boost my project. [11] [12]

3.3 Use Case Modeling and Description

Use case diagram for this project in the following:

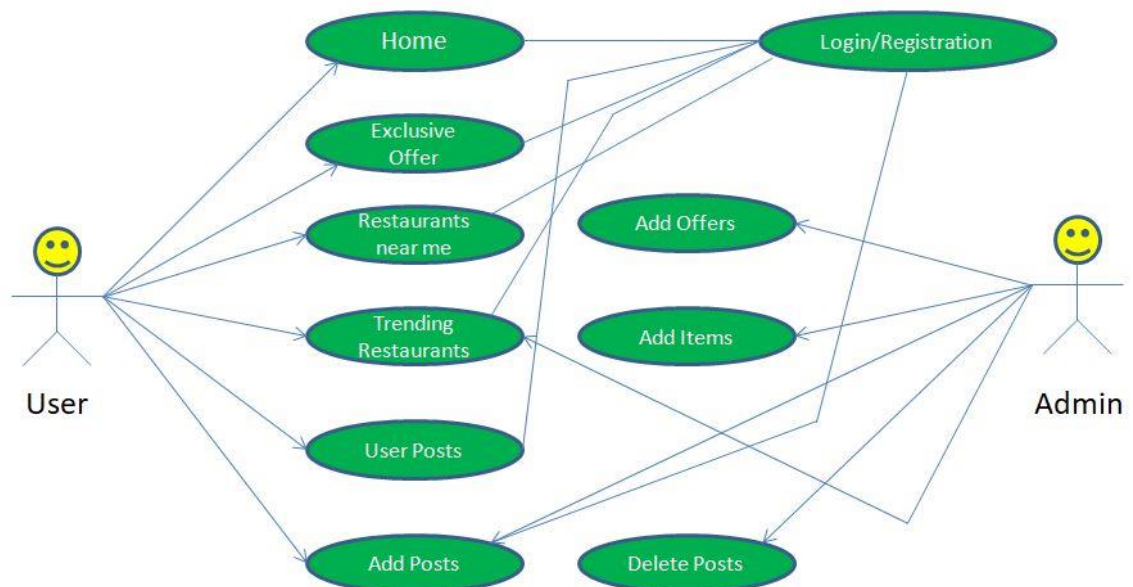


Figure 3.2: Use Case Diagram of Food Town

3.4 Logical Data Model

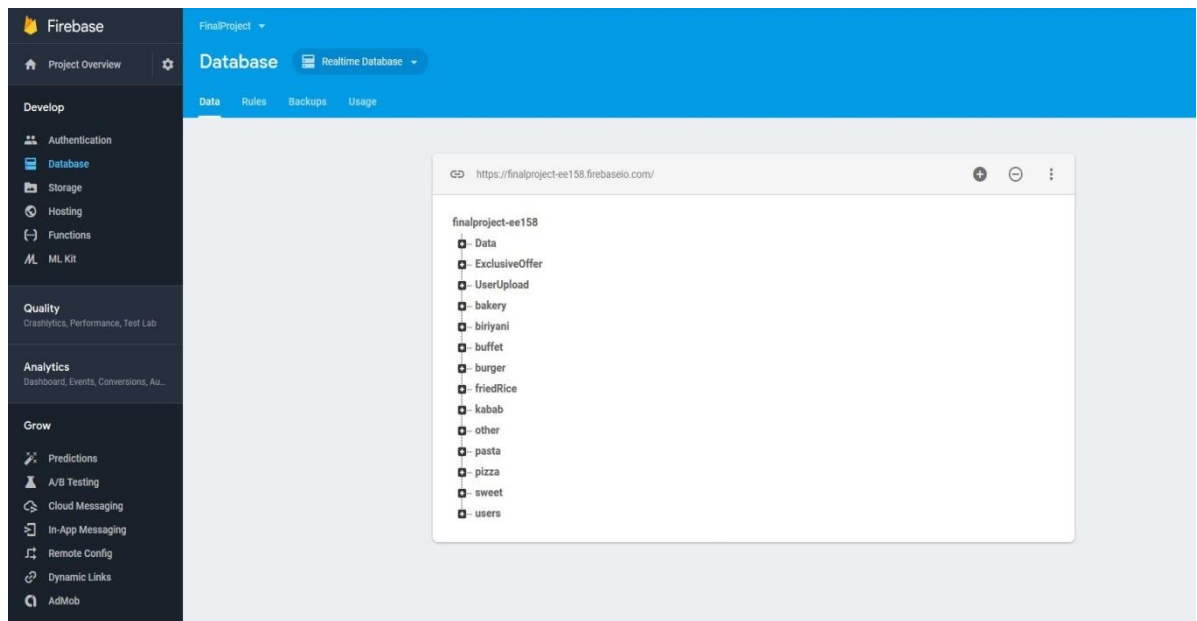


Figure 3.3: Screenshot of Database Table

3.5 Design Requirements

In this application, I tried to make a user friendly and simple looking UI so that user can use it without facing any trouble. As android is an open source platform, that's why responsive design is necessary for using it. I used XML based layouts [13] which are very helpful. I did Research about material design [14] to develop better UI. Used java as OOP language and it has efficient resources to make android application. For real time database and storage I have use firebase as it is so much secure and reliable.

CHAPTER 4

Design Specification

4.1 Front-end Design

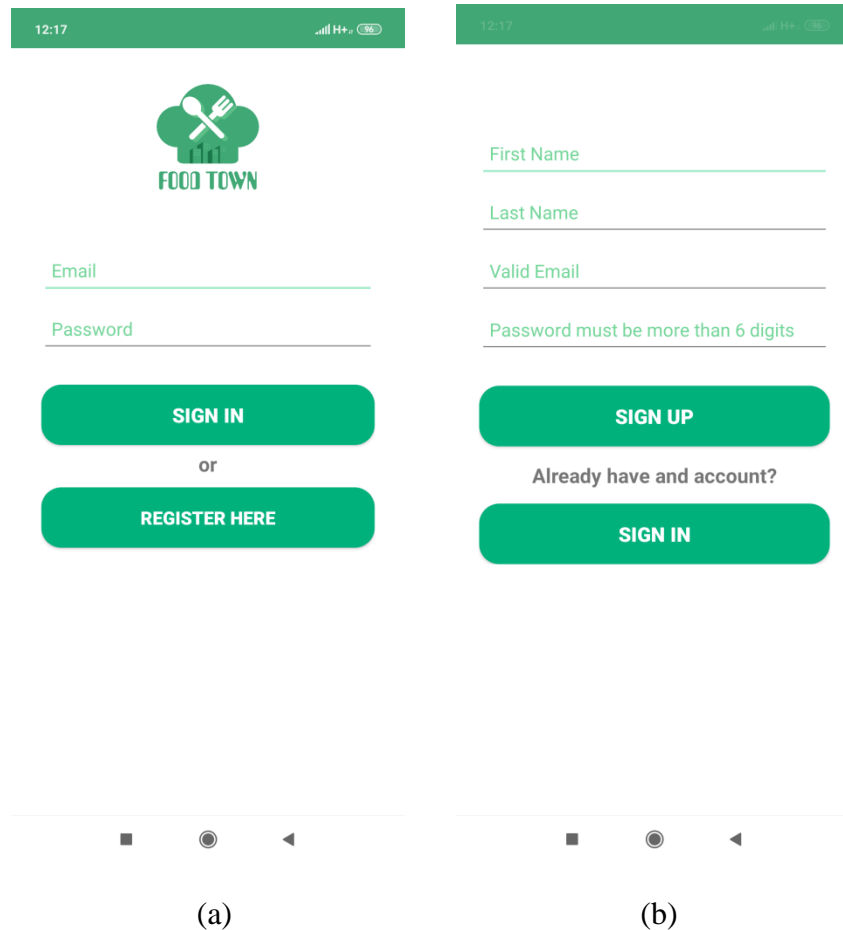


Figure 4.1: Screenshots of (a) Login page and (b) Registration page

User need to login first. If he was not registered before he needs to press Register button, it will take him to register page (b).

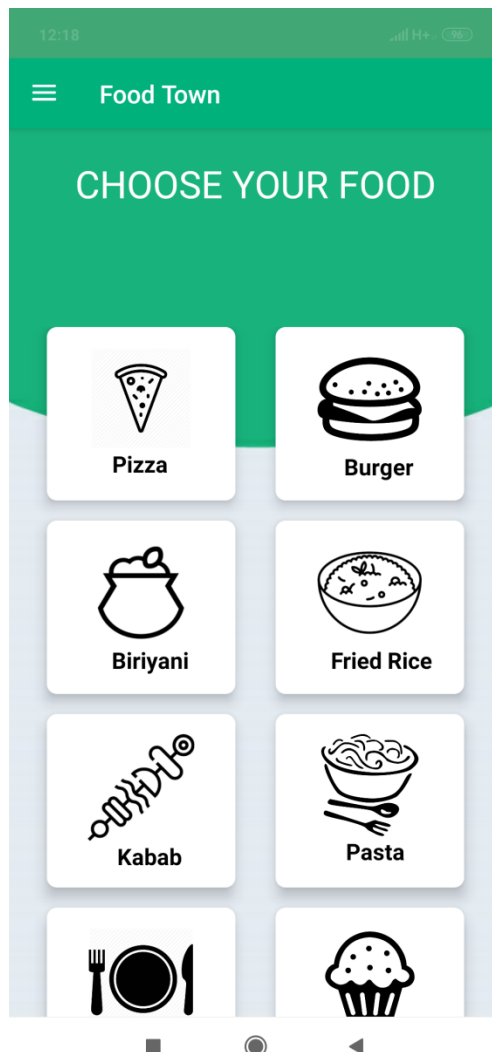
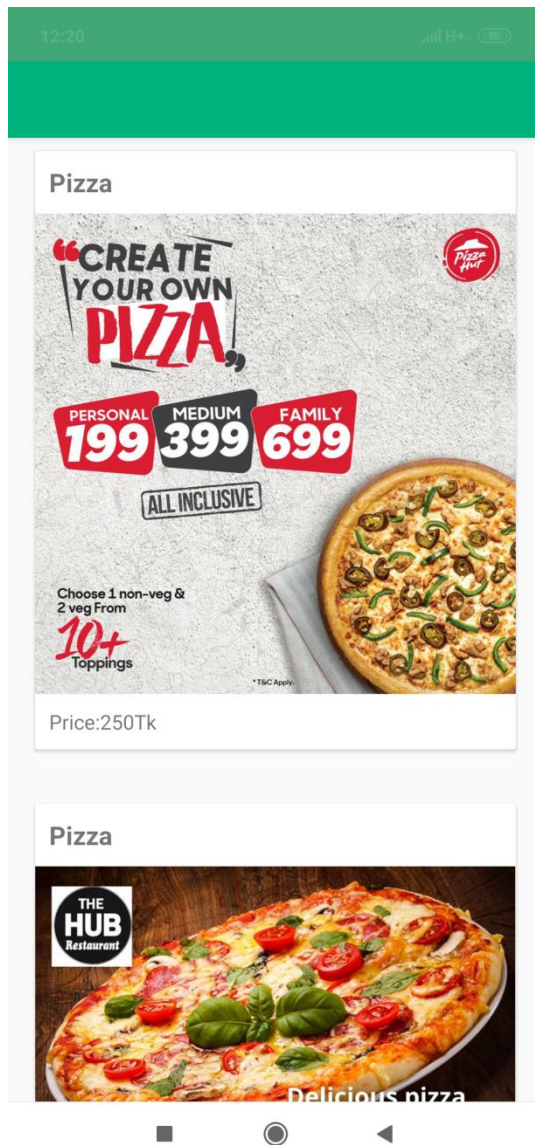


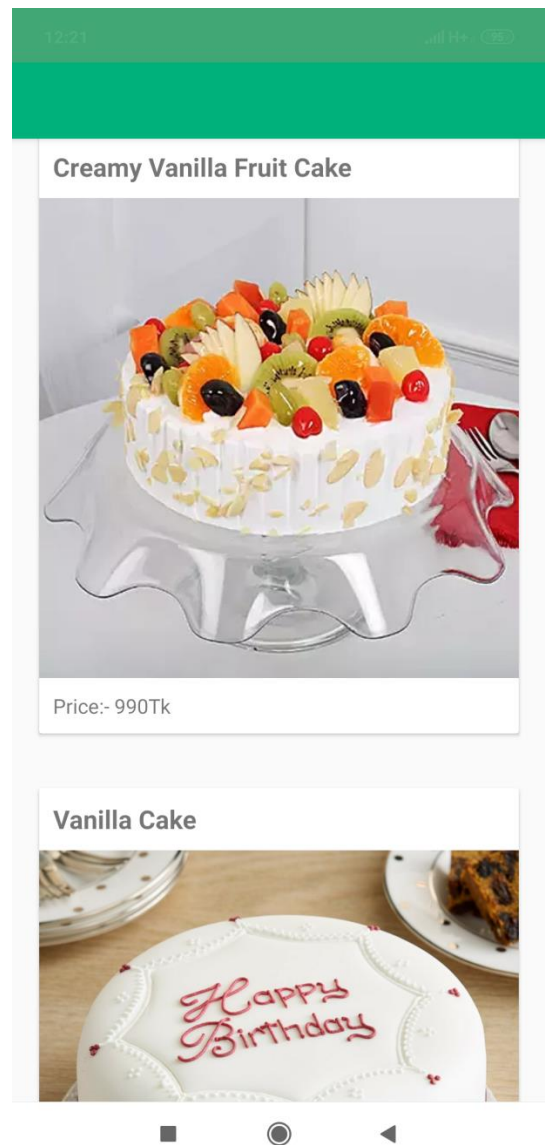
Figure 4.2: Screenshot of Home Page

After Sign Up or Login user will come to Home page. In home page there are all the specific categories. They can find their targeted item to select on option.

A user needs Pizza or Bakery offers. Clicking these items it will take user to these following pages.

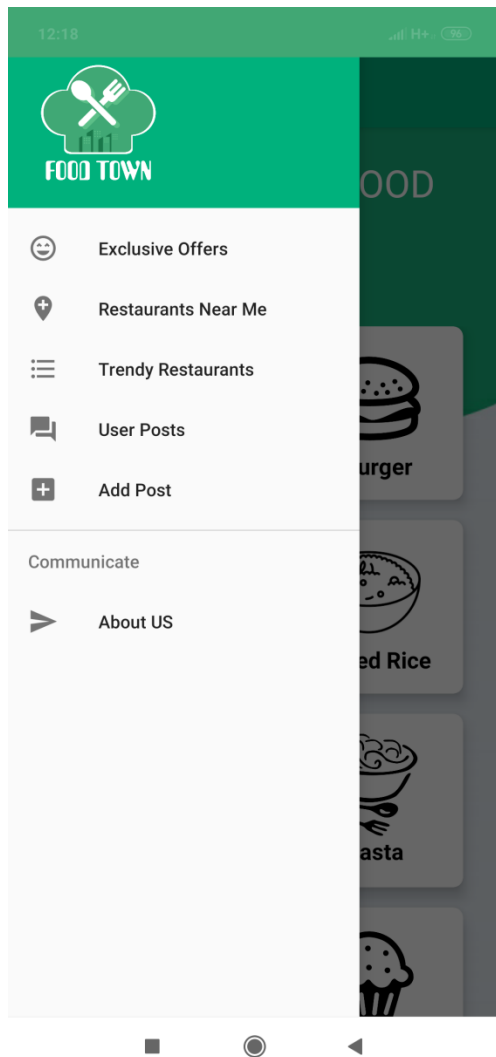


(a)



(b)

Figure 4.3: (a) and (b) the Screenshots of Categories Items



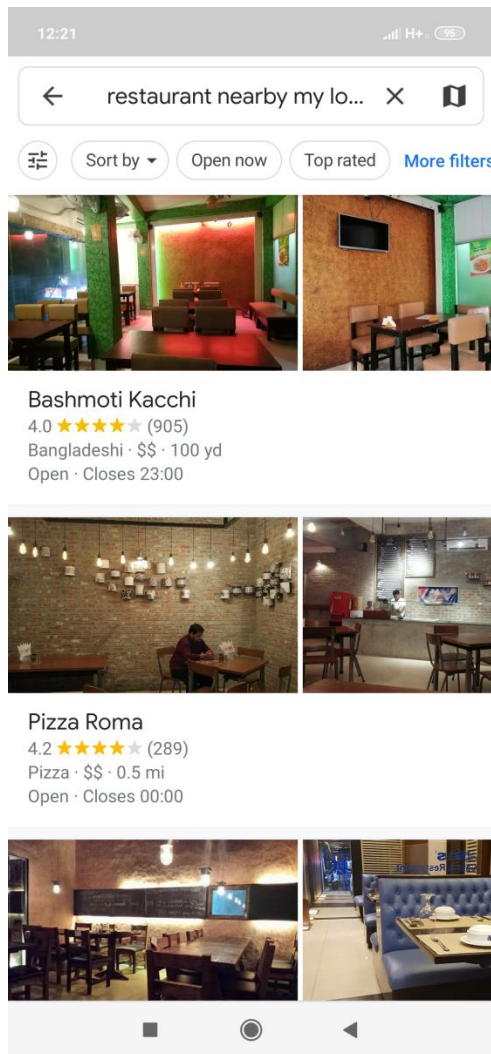
(a)



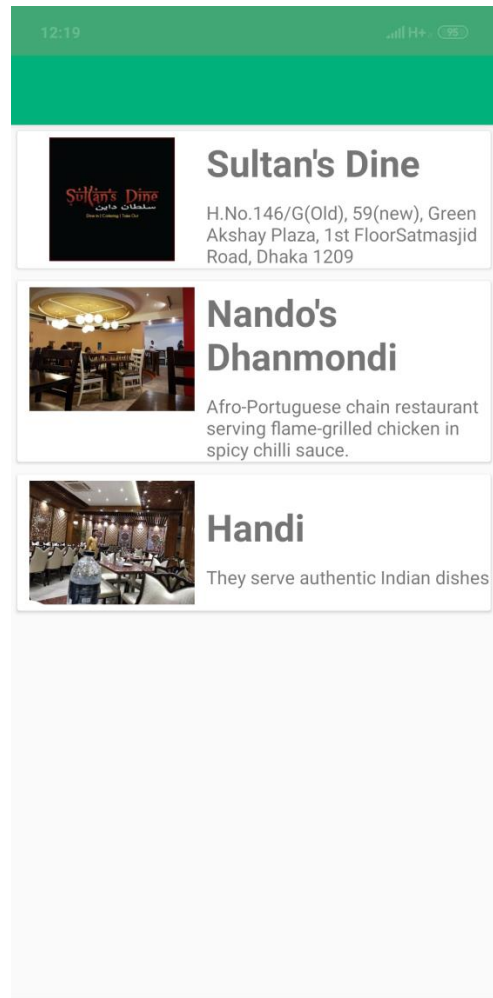
(b)

Figure 4.4: Screenshots of (a) Navigation drawer and (b) Exclusive Offers Activity

Exclusive offers will be shown when it clicked at Exclusive Offers item in Navigation Drawer.

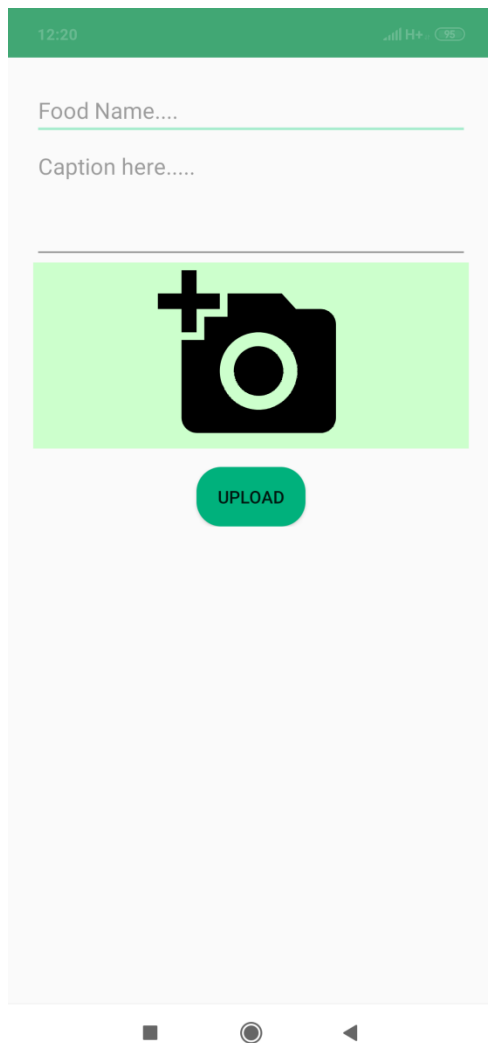


(a)



(b)

Figure 4.5: Screenshots of (a) Restaurants Near Me and (b) Trendy Restaurants



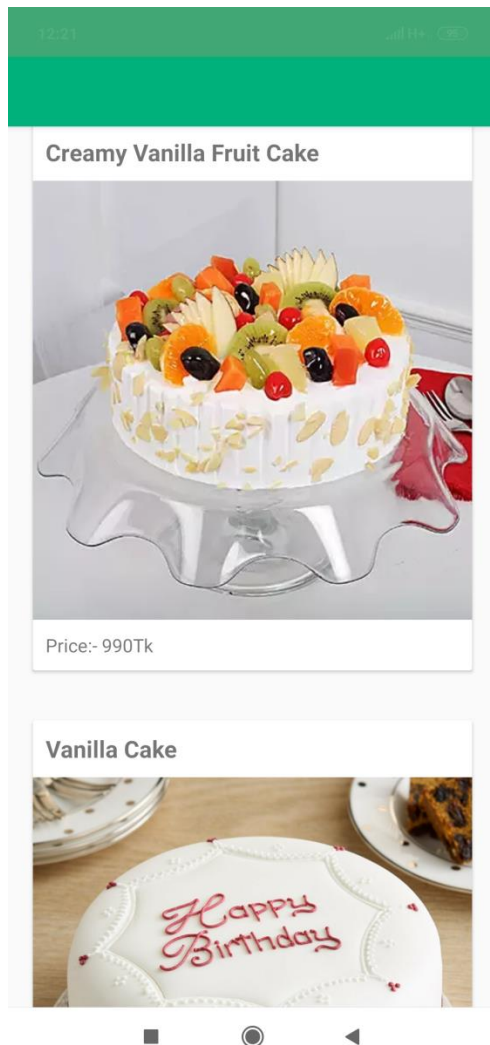
(a)



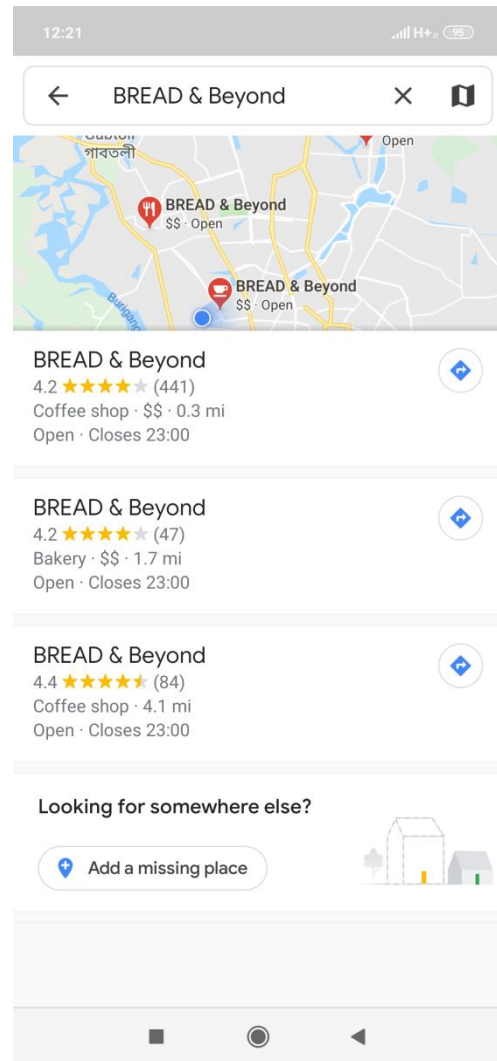
(b)

Figure 4.6: Screenshots of (a) Add Post and (b) User posts

A user can add post in add post activity. After posted it would go in User posts where all the user posts were displayed.



(a)



(b)

Figure 4.7: Screenshots of (a) Items and (b) exact Location

After clicking a particular item it shows me the exact location of the shop/restaurants. If there are more branches of that restaurant, it will show all the branches in terms of distance nearby.

4.2 Back-end Design

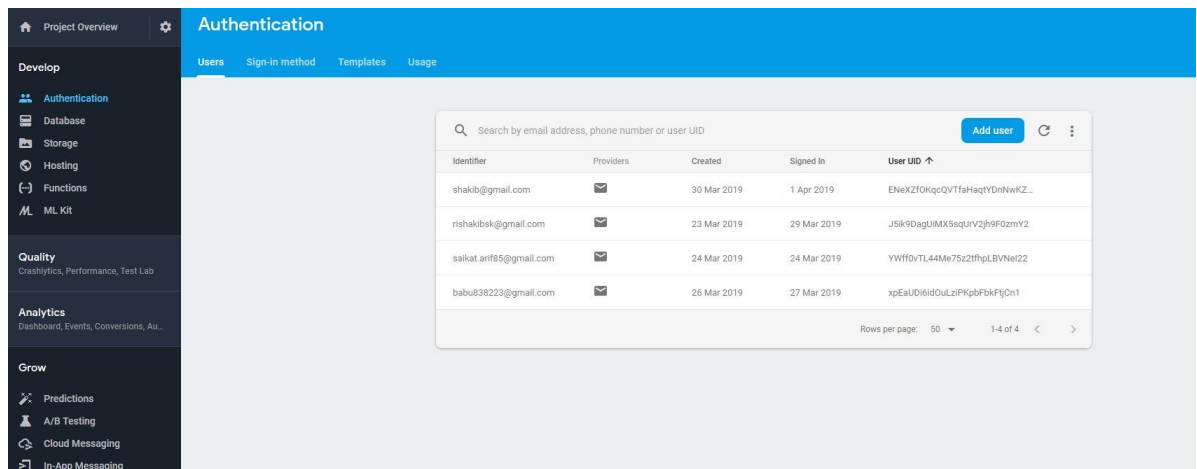


Figure 4.8: Screenshot of database Users Authentication

Json was used to link this project with firebase real time database. [15] Some Json code was shown in above.

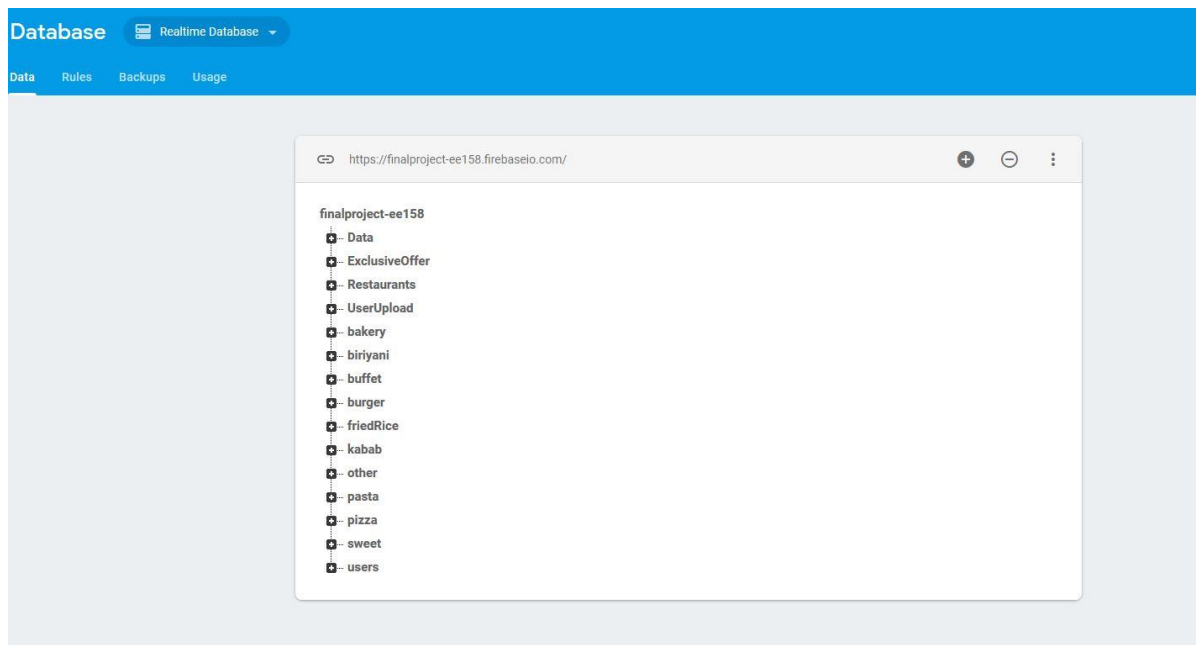


Figure 4.9: Screenshot of Firebase Real time database table

4.3 Interaction Design and UX

To make interactive design between users and app is an important term to make an Application. It makes an app more user friendly. As this app is for user that's why I put an option which can help user to share his/her emotion and expression. This helped me to establish more interaction design in this app.

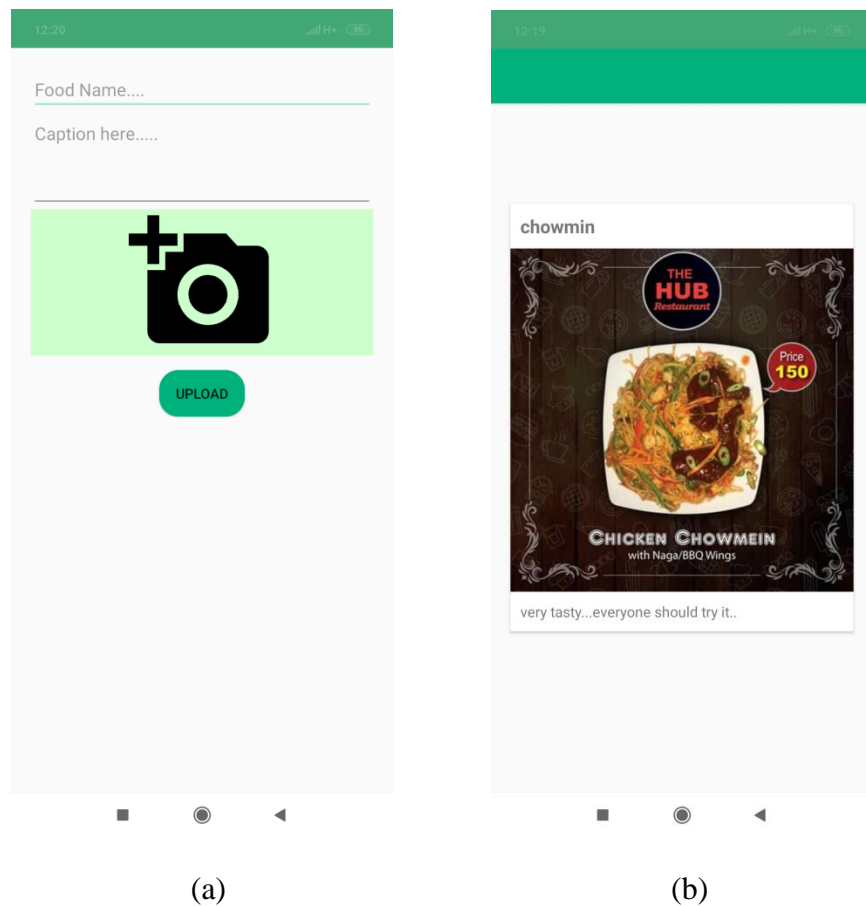


Figure 4.10: (a) and (b) Screenshots of Interaction Design and UX

4.4 Implementation Requirements

User experience and User Interface design is the way toward planning applications that are anything but difficult to utilize, valuable and connecting with to communicate with it. This is the way toward making item that gives applicable experience to the clients. For developing this App,

Development IDE: Android Studio

Development Language : Java,Json

Development Design : XML

Server : Firebase

Testing : Android Emulator, Android Phone

Database : Firebase

CHAPTER 5

Implementation and Testing

5.1 Implementation of database

Implementing database was tuff and sensitive part of this project. Because all the users will have to enter in it after registering and login. This system should be authentic and secure as much as possible. I have connected this authentication and data retrieving with Firebase Database as it is secure and reliable.

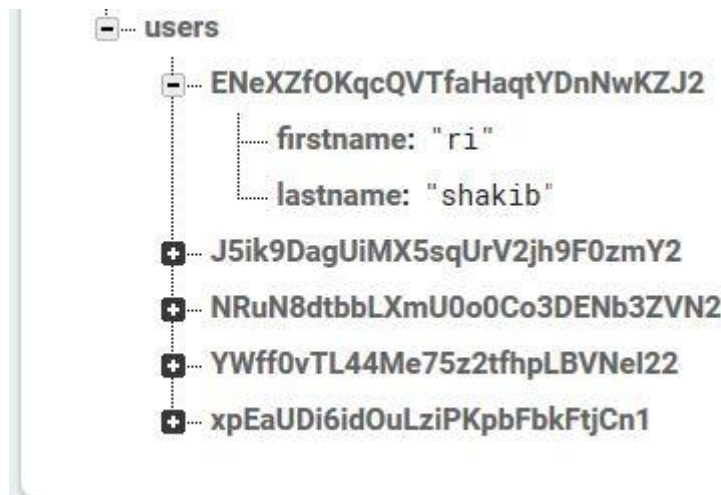


Figure 5.1: Screenshot of Users Registration Database

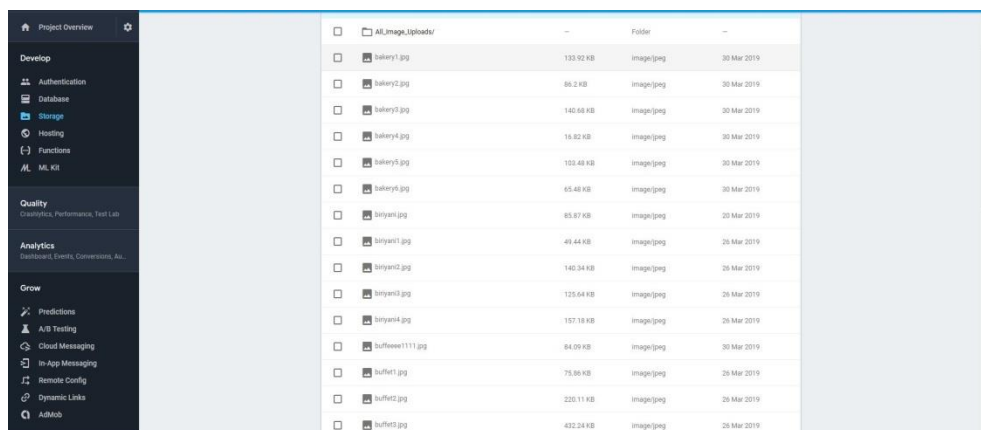
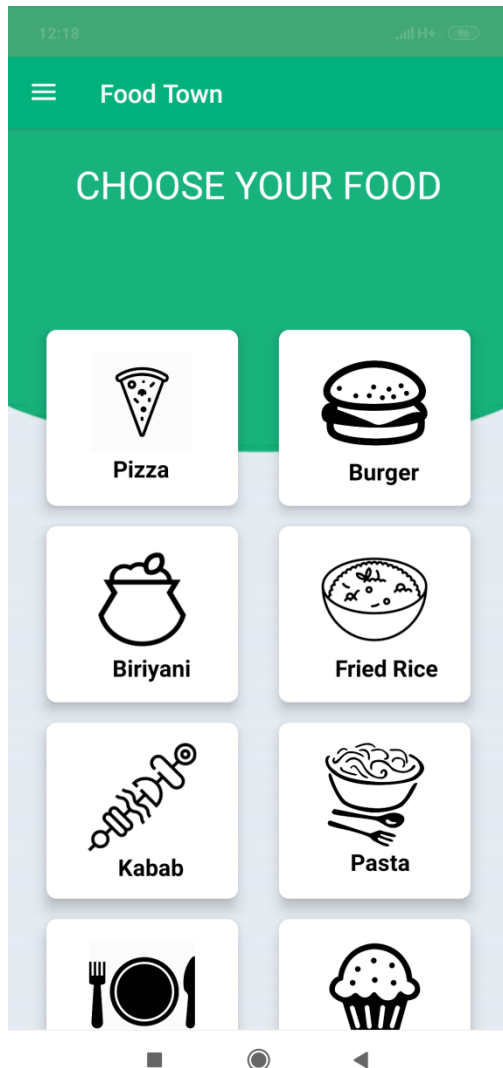


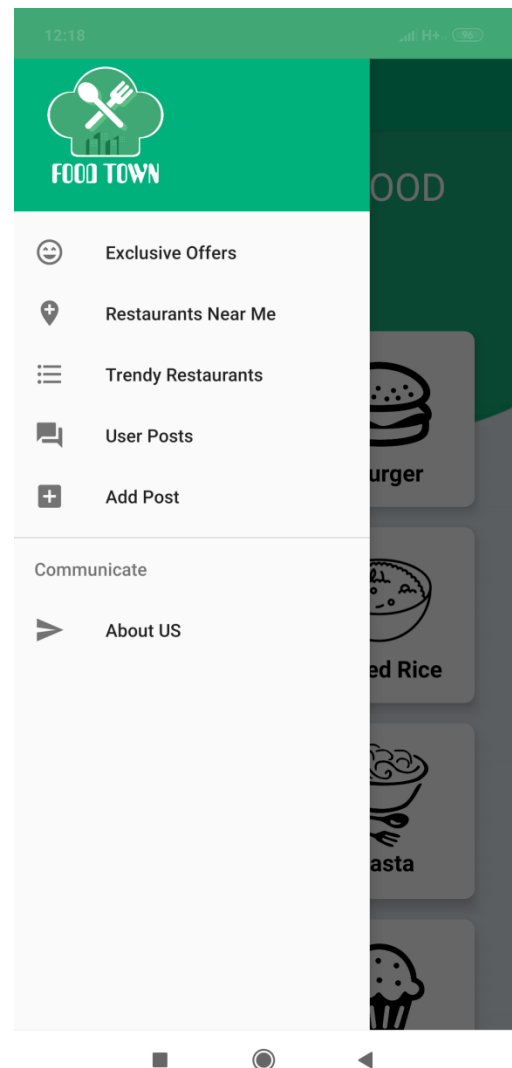
Figure 5.2: Screenshot of Database Storage

5.2 Implementation of Front-end Design

After researching and gathering all the information about my project, I have started to implement Front end design [16]. I also made a demonstration design before I start. I have followed some procedure that helped a lot. I have tried to build front-end design more User friendly. Let's have an overview of using them.



(a)



(b)

Figure 5.3: (a) and (b) Screenshots of Front-end Design

In the Home page, there are categories of specific items. In the navigation Drawer there are some services for the users. They can use these on different purposes.

5.3 Implementation of Interaction

Implementation of Interaction can be found in this project. This is the key to make this app dynamic and attractive to the users. For that purposes making an app interactive is essential. I took challenges to fabricate an interactive design for this project.

5.4 Testing Implementation

Test	: Install Application
Version	: Tested on various Android version <ul style="list-style-type: none">➤ Lollipop: Versions 5.0➤ Marshmallow: Versions 6.0➤ Nougat: Versions 7.0➤ Oreo: Versions 8.0➤ Pie: Versions 9.0
Expected Outcome	: Installed all the version successfully
Actual Outcome	: Installed Successfully
Result	: Passed

5.5 Test Results and Reports

Table 1: Registration and Login Test Case

No	Test case	Input	Expected outcome	Actual output	Result
1	Email	Input Correct Email	Registration is successful	Successfully Registered	Passed
2	First Name	Input first name	correct	Correct	Passed
3	Last Name	Input Last name	correct	correct	Passed
4	Password	Input password	Registration is successful	Successfully Registered	Passed

I tested this application on different size of screens and android version. It shows the best outcome of it. So toward the end I can do the outcomes as the advantages for the clients.

- > Better Quality Application
- > Easier to use
- > Beneficiary information for users
- > Better User Interface
- > Authentic results

CHAPTER 6

Conclusion and Future Scope

6.1 Discussion and Conclusion

Food is necessary for all the human being. In the time of Modern civilization and high technology culture people used to lead easier and sound life. Competitive market needs to improve with its own way/strategy. This platform has lots of possibilities to move on with the best services. Food Town will also make an era to the people by fulfilling their necessity. So I try to give an opportunity for those people who look up this type of service which is significant for them. I hope this platform will be a best way for them.

6.2 Scope for Further Development

I believe I can make this Application more advanced in future. This could be a significant Android application that may help bonding between Restaurants and Customers. I try to overcome all the limitations though I didn't mention anything about it. Advance features and User interface will be updated in future. This App is already user friendly but I will try to make this more User friendly in future. I want to add a new registration feature for the restaurants owners which may help them to promote as they expected. I will add an option that can be used by businessmen to post their ads. At the same time I want to add order option so that people can also buy foods from this platform and get home delivery. This may make more satisfactory service. And of course I will be updating more features day by day due to better service in terms of Users and Restaurants Owners Demands.

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APPENDICES

Appendix A:

Here is the some Back-end Code for Sign Up page:

```
public class SignupActivity extends AppCompatActivity {  
  
    private ProgressDialog progressDialog;  
    private FirebaseAuth firebaseAut;  
    private DatabaseReference mdatabase;  
    private FirebaseAuth.AuthStateListener authStateListener;  
    private Button create,signin;  
    private EditText fname,lname,email,pass;
```

@Override

```
public void onBackPressed() {  
    super.onBackPressed();
```

```
    Intent intent=new Intent(SignupActivity.this,MainActivity.class); startActivity(intent);  
}
```

@Override

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);
```

```
    firebaseAut= FirebaseAuth.getInstance();
```

```
    mdatabase= FirebaseDatabase.getInstance().getReference().child("users");
```

```
    setContentView(R.layout.activity_signup);
```

```
    progressDialog=new ProgressDialog(this);  
    create=(Button) findViewById(R.id.CreatAccount);  
    signin=(Button) findViewById(R.id.SignInFromReg);  
    fname=(EditText) findViewById(R.id.FirstNae);  
    lname=(EditText) findViewById(R.id.LatName);  
    email=(EditText) findViewById(R.id.EmailPhone);  
    pass=(EditText) findViewById(R.id.rew);
```

```
    create.setOnClickListener(new View.OnClickListener() {
```

@Override

```
        public void onClick(View v) {
```

```

        startreg();
    }
});

signin.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        Intent intte=new Intent(SignupActivity.this,MainActivity.class);
        startActivity(intte);

    }
});

private void startreg() {
    final String firstname=fname.getText().toString().trim();
    final String lastname=lname.getText().toString().trim();
    String Email=email.getText().toString().trim();
    String Pass=pass.getText().toString().trim();

    if
    (!TextUtils.isEmpty(Email)&&!TextUtils.isEmpty(Pass)&&!TextUtils.isEmpty(firstname)&
    &!TextUtils.isEmpty(lastname)){
        progressDialog.setMessage("Signing up...");
        progressDialog.show();

        firebaseAuth.createUserWithEmailAndPassword(Email,Pass).addOnCompleteListener(new
        OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult> task) {

                if (task.isSuccessful()){

                    String userid=firebaseAuth.getCurrentUser().getUid();
                    DatabaseReference currentuser= mdatabase.child(userid);
                    currentuser.child("firstname").setValue(firstname);
                    currentuser.child("lastname").setValue(lastname);
                    progressDialog.dismiss();
                    Intent mynIntent = new Intent(SignupActivity.this,
                    NavigationActivity.class);
                    mynIntent.addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);
                    startActivity(mynIntent);
                }
            }
        });
    }
}

```



```
        }

    }
});

}else{
    Toast.makeText(SignupActivity.this,"Fields are
Empty",Toast.LENGTH_LONG).show();
}

}

}
```

Food

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