

# **Easy Order: An online-based restaurant order management system**

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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

Supervised By

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**DAFFODIL INTERNATIONAL UNIVERSITY**  
**DHAKA, BANGLADESH**  
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## **APPROVAL**

This Project titled “**Easy Order: An online-based restaurant order management system**”, submitted by Borhan uddin, ID No: 172-15-9822 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 10/07/2020

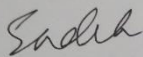
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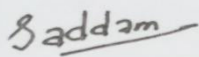
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## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Dr. Sheak Rashed Haider Noori** , Associate Professor and Associate Head, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted else where for award of any degree or diploma.

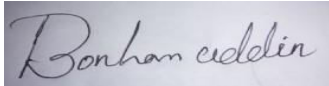
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## ABSTRACT

There are many restaurants in our country for having food. The customer wants good quality foods with the best service to eat in the restaurant. The traditional food ordering system available in the restaurant in our country. Those systems are not perfect for the customer, because of most the customers have a limit of time for having food. We find a problem with time-consuming to having food. We want to build an android application to save time and the best service as the customer as owner. They can find easily the best restaurant with good service. If the owner gives the best service to the customer that will increase attraction as a customer and as an owner. The system will provide the restaurant's name on the front page to find easily the customer there also provide an item menu with a discount. The customer can control the ordering system by the application. The system is easy to use to the customer and owner. The system will reduce the ordering jam and service jam. The order records are stored on the server. The owner can be a control item organize and bill payment method. The order will display on the screen in the kitchen. The item makes according to the order by the chef that we serve to the customer by the waiter within a few times. The customer can do feedback based on the service in the restaurant that will go directly to the owner to progress the serve. We are implementing this system using an android application for the phone or tablet. The front end will be developed by the java and the backend will be developed by the firebase database.

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# CHAPTER 1

## Introduction

### 1.1 Introduction

Restaurants are one of the favorite places where men can having foods in a nice environment. There are many restaurants in our country. Restaurants are very popular with customers in our country for having luscious foods. When customers enter the restaurant they will make an order by using the traditional menu cards system. There are not any dynamically ordering systems. When the waiter comes to get orders from customers that order to get a long time. Most customers are not having food properly, because they have not unlimited time to having food. This system will be implemented by the android application that is very easily usable to the customer and the owner. The system will provide to customers and restaurants which will help full for both. Customers can make orders properly by using the application that orders will go to the kitchen and manager within a few seconds. The cooker making foods according to the order, After completed the making foods according to the order that can be served to the customer by the waiter within few minutes, The bills have been sent to the customer base on the orders by the manager through the application. The customer can give feedback about foods.

### 1.2 Motivation

The motivation for this particular design application is to, in restaurants they take long waiting to take an order or place an order during peak hours like in lunch or dinner. Most of the customers are not satisfied with this kind of waiting time of service, because most of them are job persons, so they have limited time for having breakfast, lunch, dinner. Recently, we run a survey on different types of restaurants and as well as on customers, we find significant reasons for this kind of customer problems well as the restaurant's owner's problem.

### 1.3 Objectives

Nowadays people want to find out the short way for all-purpose such online foods order, shopping. People are dependable on online which easy way for online shopping and online business that can do consume manpower and money. Nowadays the android is popular with people. Android Studio is the official integrated development environment (IDE) for Google's Android operating system, built on Jet Brains' IntelliJ

IDEA software and designed specifically for Android development. It is available for download on Windows, macOS and Linux based operating systems. It is a replacement for the Eclipse Android Development Tools (ADT) as the primary IDE for native Android application development. Android Studio was announced on May 16, 2013, at the Google I/O conference. It was in the early access preview stage starting from version 0.1 in May 2013, then entered the beta stage starting from version 0.8 which was released in June 2014. The first stable build was released in December 2014, starting from version 1.0.

#### **1.4 Expected Outcome**

We want to build an android application which is used both customers and the organization. The customer can make an order using the easiest way through the android application in the restaurant that uses all category people which will very helpful for them.

#### **1.5 Report Layout**

The development project of reports consists of 7 chapters a 1) Introduction,motivation,objective,Expected outcome, and report layout. 2) The background of the project is an introduction, related works, comparative studies,scope of the problem, and challenges.3) The chapter on requirement is a business process model,requirement collection and analysis,use case modeling and description,logical data model, and design requirements.4) The chapter on design specification is Front -end design, back-end design,interaction design, and UX and implementation requirements.5) The chapter on implementation and testing is the implementation of the database, implementation of front-end design, implementation of interactions.

## **CHAPTER 02**

### **Background**

#### **2.1 Introduction**

Bangladesh has the technology update day after day. Most of the people are educated in our country. Digital Bangladesh is one of the dreams in our country. Most people have a smartphone and a computer. They can do several online-based work s using the Smartphone and computer which takes short of time and consumption of men and money.

#### **2.2 Related Work**

The existing system is an android based. Those android applications use for the online ordering from the restaurant to the home delivery. The customer cannot order through the current system in the restaurant. There is a widely used traditional menu card system in the restaurant that keeps on the tables to order by the customer. The waiter use papers to take the order from the customer that order records are stored on the paper. It is easy to get dirty, damage, etc by stains. There is a wastage of time, manpower, money, and paper. Also so difficult to reprint the menu cards. When need the update any item they will be reprints all items on menu cards it is Extra wastage of the money and time. The records get damage and lost easily and so difficult to recover the data. When entering the customer into the restaurant they first take available sites after they will order by the traditional menu cards system. The ordering system takes a long time to take the order and serve by the waiter. Most customers are not satisfied with this traditional ordering system because they have limited time to take breakfast, lunch, and dinner. We survey base on the 10 online food ordering systems such as food panda, umber eats, Sheba delivery, path ado food, etc. There is no way to dynamically make a change in menu cards. We want to try to build an android application for the easy order name of the EASY ORDER(EO) in the restaurant. When the customer enters the restaurant they take

the available site and pick up the phone to order the food. They can choose available multiple items by this EO. When the customer needs to make change any item or increase item they can at a particular time. Those orders will go to the kitchen and manager. The chef will make food according to the order. The foods are served by the waiter. The customer can be the feedback according to the serve. The customer has been notified of the bill after having foods they can pay the bill by the several approaches like Bkash, DBBL, Ukase. The manager can modify the menu when he needs it. After eating food the manager will send a bill to the customer.

Our related works in Google:

1. The purpose of this research is making an ordering food application based on Android (Reference-page no: 31)
2. The purpose of this thesis was to build a food ordering client server application (Reference-page no: 31)
3. An android application to place the order without even waiting for a waiter (Reference-page no: 31)

Image No.	Title	Essential Features
1	Food panda	Choose from the best restaurants nearby you Widest variety of cuisines Get access to live status updates to track your food
2	HungryNaki.com	
3	Uber Eats	Pay easily with your existing Uber account Track your order in real-time

		Nearest or farthest, order from anywhere
4	Sheba Delivery	<ul style="list-style-type: none"> <li>Choose from the best restaurants nearby you</li> <li>Widest variety of cuisines</li> <li>Get access to live status updates to track your food</li> </ul>
5	Pathao Food	<ul style="list-style-type: none"> <li>Find nearest restaurants and offers with location</li> <li>Easy &amp; quick ordering</li> <li>Availability of local menus</li> <li>Filter results by name, review score, distance, special offers, cuisine type, etc.</li> <li>Can review your mean and also the restaurant experience</li> <li>History is kept safe as you can re-order in a flash of time</li> </ul>
6	Foodmart	<ul style="list-style-type: none"> <li>Easy order customization</li> <li>Advance ordering options</li> <li>Late-night ordering</li> <li>Can save your favorites</li> <li>Get the most amazing offers and deals</li> </ul>
7	Dominos	<ul style="list-style-type: none"> <li>Easy order customization</li> <li>Advance ordering options</li> <li>Late-night ordering</li> <li>Can save your favorites</li> <li>Get the most amazing offers and deals</li> </ul>

8	Just Eat	<p>Choose from the global-spanning range of cuisines</p> <p>Find nearest restaurants and offers with location</p> <p>Easy &amp; quick ordering</p> <p>Availability of local menus</p> <p>Filter results by name, review score, distance, special offers, cuisine type, etc.</p> <p>Can review your mean and also the restaurant experience</p> <p>History is kept safe as you can re-order in a flash of time</p>

### 2.3 Comparative Studies

There are many kinds of online foods order android applications that have been used by the customer to takes service from the organization. Many apps are available for online shopping in our country. we using many apps day after day of them. But there are no available which have not these types of features. It has many easiest feature which can use the customer to gives the order in the restaurant is well go to the kitchen. This apps is very suitable and easy for the customer can order within few seconds that can serve the customer based on cooking. This apps is an easy process and useful to them.

### 2.4 Scope of the proble

The concept of an android application is unique. When I want to build a unique app could not find it short of time.Initially, when I want to try to make this app is faced many problems could not find of solution easily. Firstly, Is has made as a single page that cannot work properly which takes long of a time to solution. After every single page add one by one to build a stander app. I want to try always to make an application that has not error available.

## **2.5 Challenges**

I try to best build a stander application that can provide to the customer and organization owner. When start working I have faced many problems and try to solve that problem and learned many thinks about how to build an android application. Some appsare not available on the Google play store that is do not uploaded. There are I have seen many apps available as an online food ordering system on the play store then realized and decided to add some unique features and to make the easiest process which will be very helpful to the customer that will very challenge for this project.

## CHAPTER 03

### Requirement Specification

#### 3.1.1 Business Process Modeling

The Business Process Model (BPM) contains the "Easy Order (EO)" which covers all model analyses. This model helps the user to effortlessly comprehend the whole project. It is provided to all people which is very useful for them. It imparts the UML Example of the Business process modeling and the Design and development of implementation. These apps will be available for the customer and that has something different features from others. It has some unique features that will be suitable for them. The process of Business Process Model (BPM) is instruction whole using the procedure of the apps and it can easily understand the customer.

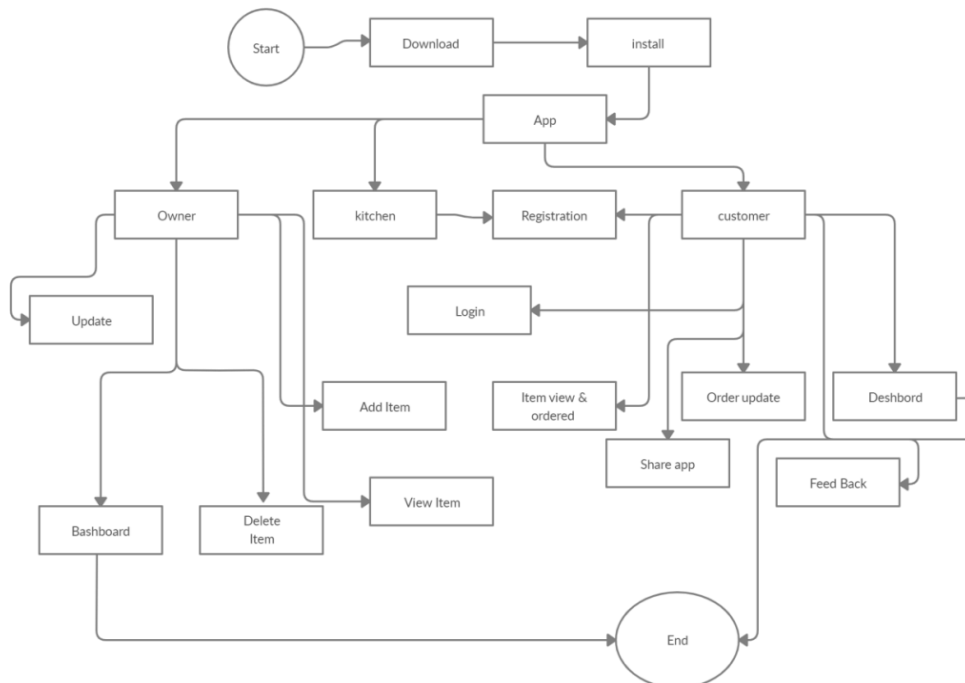


Fig 3.1: Business Process Model



### **3.1.2 Requirement Collection and Analysis**

This project has countless kinds of requirement which collected from many sources and learned many things. It is most important to identify what is the best requirement for these implements and design the models. I found many requirements from the online search that applied step by step to the design and development. I found a lot of information from other apps. I worked based on that information.

### **3.2.0 Literature survey**

#### **3.2.1 Survey of Owners**

As we asked our participants what their comments about our app 55% of their satisfied, very satisfied 35%, and 10% of not satisfied [Figure 6].(We survey about our app around 25 Owners)

#### **3.2.2 Survey of Customers**

As we asked our participants what their comments about our app 47% of their satisfied, very satisfied 36%, and 17% of not satisfied .(We survey about our app around 30 customers)

### **3.3 Use case modeling and description**

The process has three actors available as the customer, owner, and cooker. The process of the Use case model has contained all procedures of the whole system of how to using the apps. There are two types of users as owners and customers. The system has been used as customers and owners after login. First of all, customers have to register for access to apps. Customers can see all available products and gives an order in the restaurant through the apps which can be served by a waiter within few minutes that order can see as owners. Customers can update items, delete items, and also can give feedback based on products or services. The Owner can see order items, feedback sent by the customer.

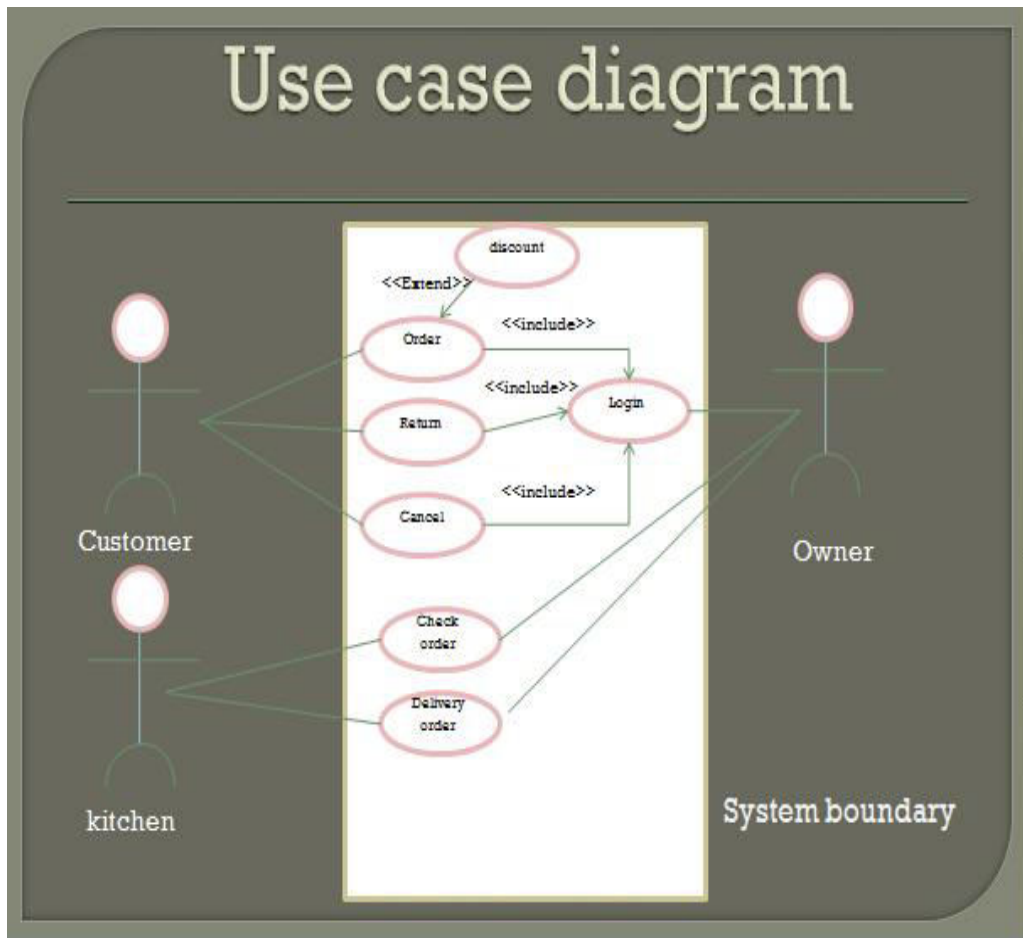


Fig3.3.1 Use case

### 3.4 Data Flow Diagram

This process of the Data flow diagram (DFD) contains all system features. In this process, all information is stored in the database. As customers or owners have to register before login gives some information like Gmail address and password that are stored in the database. When the owner makes available any item on the apps that will be stored in DB. Customers can see the item on the apps after login. Customers can make an order that is also stored in DB. If need customers have to update they can from the DB. Customers can give feedback based on a product review that is stored in the database.

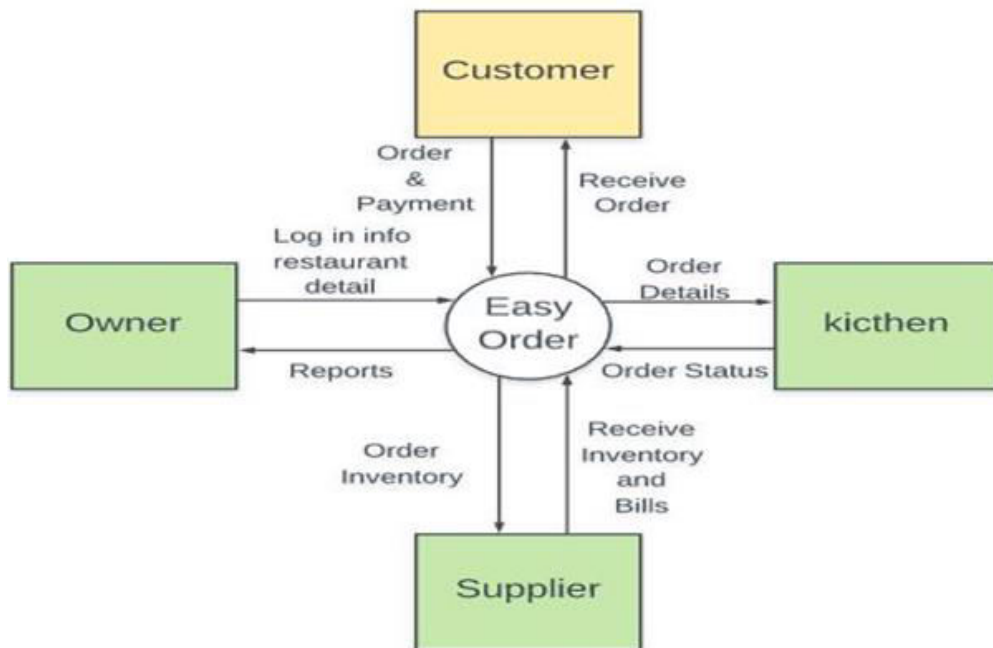


Fig3.4.1 Context level

### 3.5 ER Diagram

The ER diagram is a model which can use for customers and owner. It has been used orders by customers to gives that are stored in the database continuously. The owner can see that order. When the owners need to post any item that is stored in the database. It is a particular data management system. There are many kinds of android application for online shopping. But that is not perfect for orders in restaurants as a menu system. Many people want to have foods short of time that are not possible in the current menu system. The owner can provide any item within few minutes when need an update. If any item is not available on time the owner can provide a message immediately on the item. The apps are very helpful for both of them.

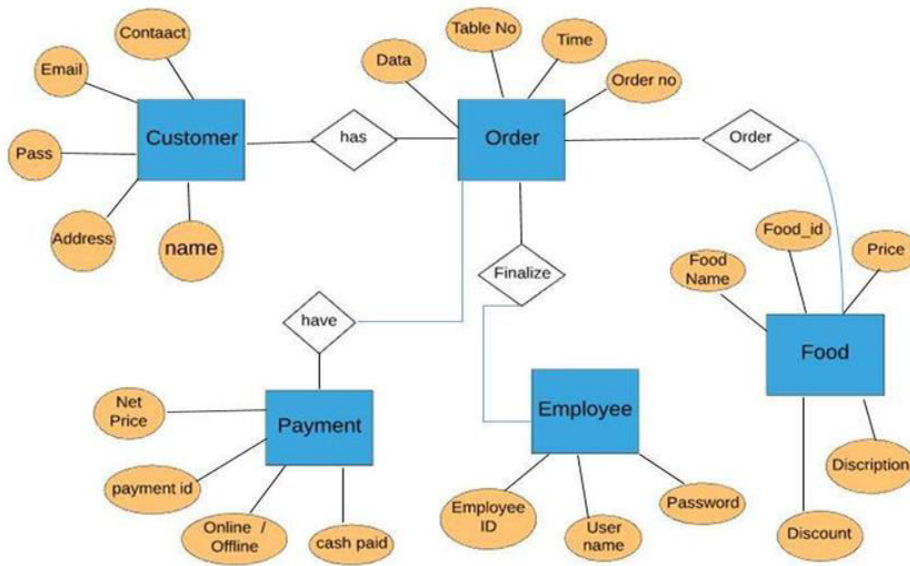


Fig 3.5.1: ER Diagram

### 3.6 Design Requirements

The design requirement for the user:

- Registration page.
- Dashboard page
- Item upload page,
- Viewthe Item upload page,
- Item update page
- Item delete
- Feedback page
- Login page
- Logout

## CHAPTER-04

### DESIGN SPECIFICATION

This chapter will be a discussion about font-end-design and back– end p-design of the Application. I have used to react for web pages font-end-design and react-native has been used for android font-end-design and Django has been used for backend design.

#### 4.1 font-end- design

Every application has a very important the font-end-design which virtually visible font of view to the user. Whenthe user tries to connect in the backend that has font-end-design.

##### 4.1.1.0 font-end-design for the customer

We will discuss front-end-design for the customer site. The customer can see all virtually visible all products on the font-end-pages without registration when the customer needs to order the product customer must be registration and login and can give rating and feedback after services complete.

Figure 4.1.1.1 registrationpage of the this app

Figure 4.1.1.2 login page of the this app

Figure 4.1.1.3 home page where all product visible of the this app

Figure 4.1.1.4 contractpage of the this app

Figure 4.1.1.5 customer counter section page of the this app

##### 4.1.1.1 Registration page

In this registration page, the customer can be registration first name, last name, email or phone number, gender, address, and valid password after filling up all field then enter the submit button and registration is successful

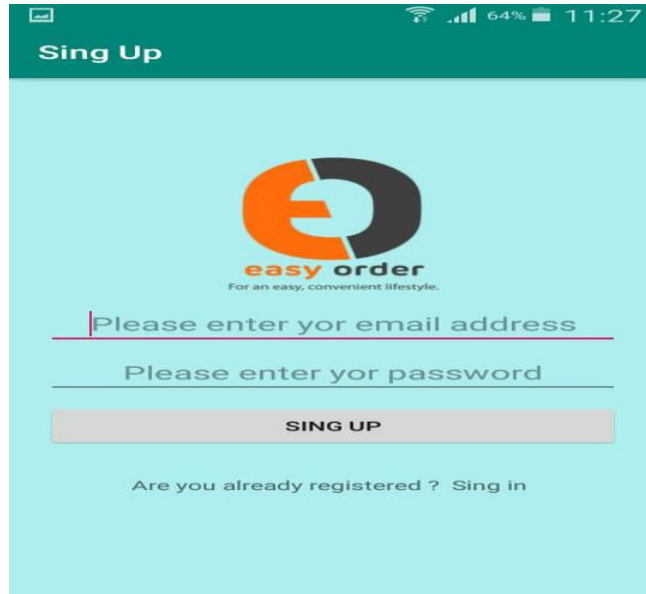


Fig4.1.1.1: registration page

#### 4.1.1.2 Login page

The customer can be login after enter the valid user type, username, and password after registration successful a user can be logged in this Home page

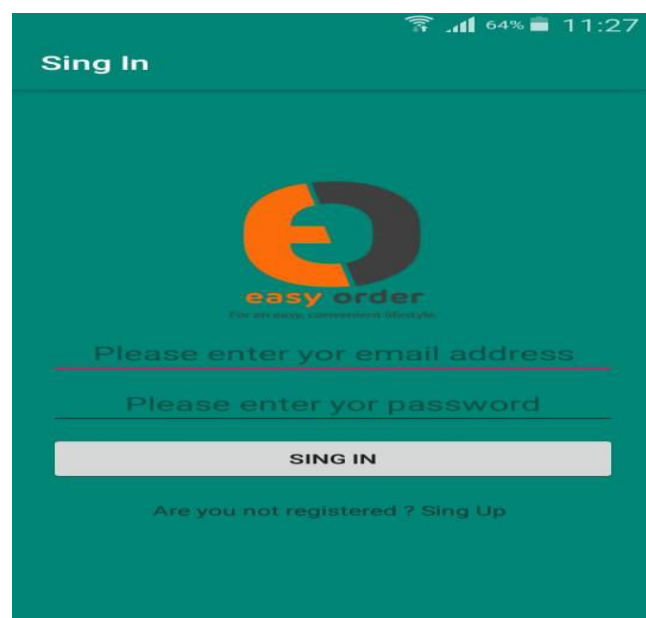
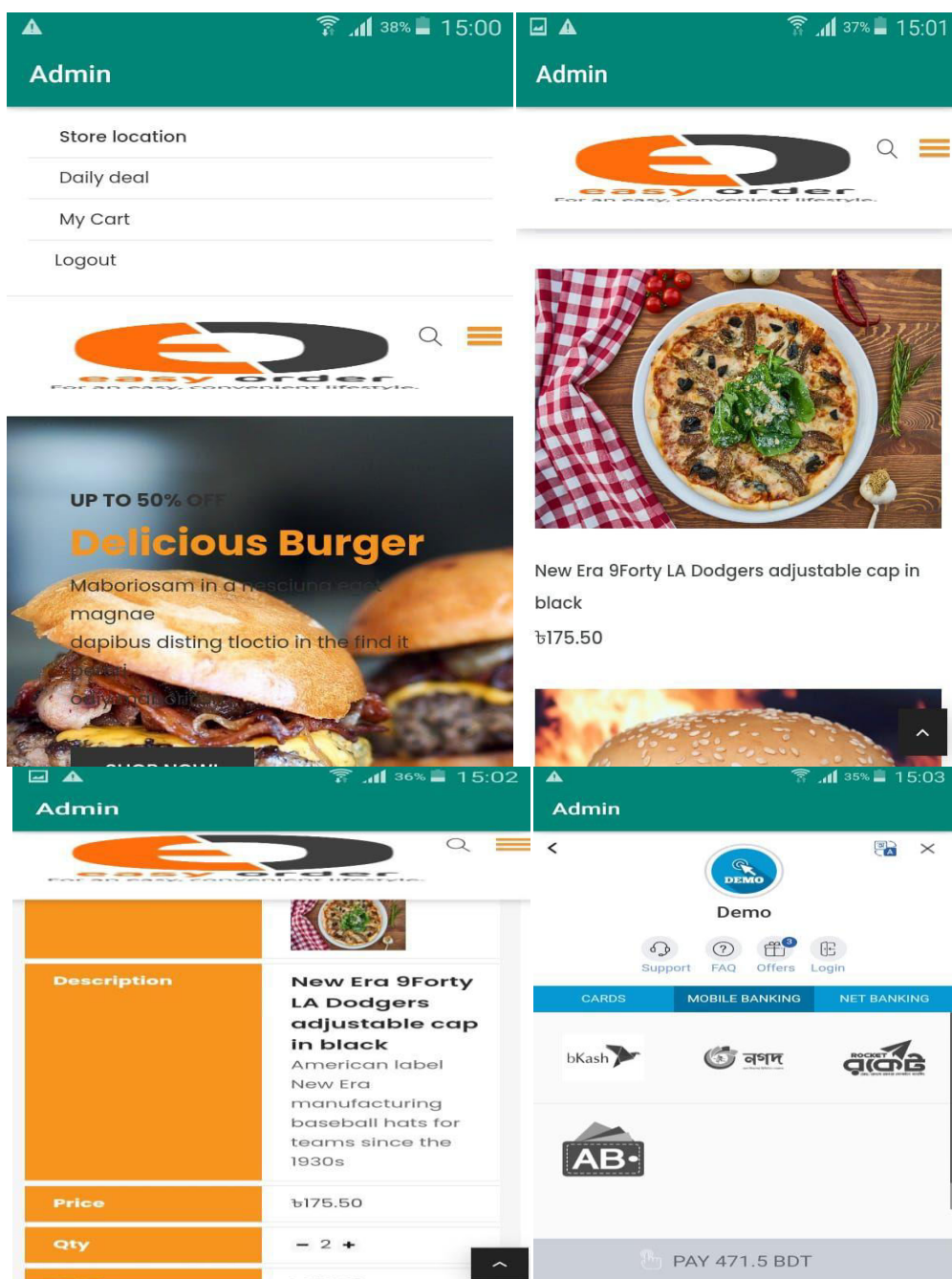


Fig4.1.1.2 login page

### 4.1.1.3 Home page

On this page, the customer can see all products after login, when the customer has needs to order they can choose one by one and submit button. On this page, the customer can see all products after login, when the customer has needs to order they can choose one by one and submit button.



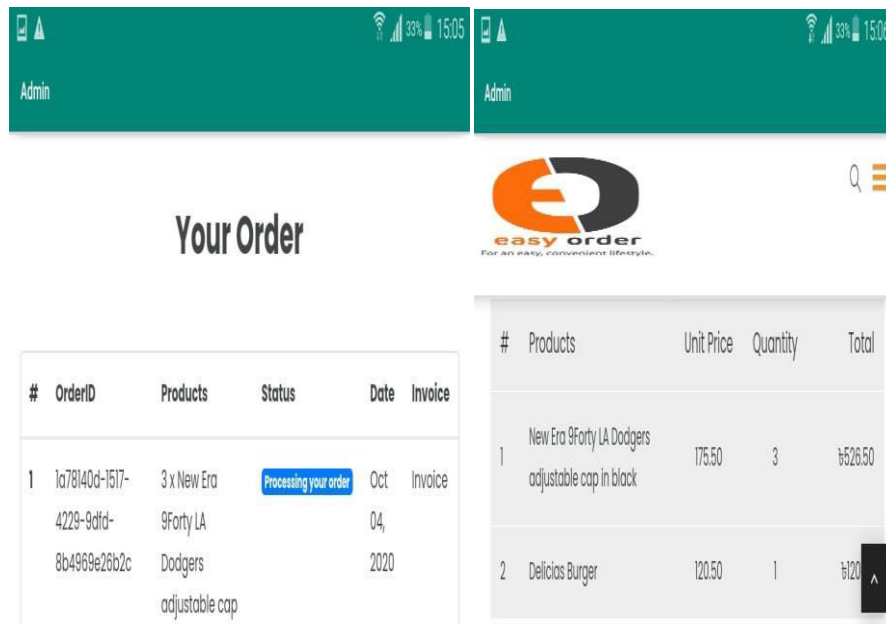


Fig4.1.1.3 home page

#### 4.1.2.0 font-end-design for the chef

We will discuss front-end-design for the chef site. The chef can see all virtually visible all order which comes from the customer on the font-end-pages.

Figure 4.1.2.1 registration page

Figure 4.1.2.2 login page

Figure 4.1.2.3 visible order page

#### 4.1.2.1 Registration page

In this registration page, the chef can be the registration user name, email or phone number and valid password after filling up all field then enter the submit button and registration is successful



## Create your account

Fill out the form to get started.

Email\*

Password\*

Password2\*

OR

Already have an account? [Sign In](#)

Fig4.1.2.1 Registration page

#### 4.1.2.2 Login page

The chef can be login after enter the valid user type, username, and password after registration successful a user can be logged in this visible order page

**Sign In to Easy Order**  
Login to manage your account.

Email\*

Password\*

**SIGN IN**

OR

Do not have an account? [Sign Up](#)

Fig4.1.2.2 login page

### 4.1.2.3 Visible order page

The chef can be seen all visible products which ordered from the customer to cooking



#### Kitchen

#	Customer	OrderID	Products	Status
1	Borhan uddin	1a78140d-1517-4229-9dfd-8b4969e26b2c	3 x New Era 9Forty LA Dodgers adjustable cap in black 1 x Delicias Burger	Processing your order
2	rahidul Islam	7f173313-c22c-4bbf-ae15-9777aa61982a	1 x New Era 9Forty LA Dodgers adjustable cap in black	Processing your order
3	rahidul Islam	4dd4e647-c28a-4397-a01d-1222ad2c8318	3 x New Era 9Forty LA Dodgers adjustable cap in black 1 x Delicias Burger	Processing your order
4	testadmin1	96739396-8cd3-4223-a83e-1978b04fb050	4 x New Era 9Forty LA Dodgers adjustable cap in black 2 x Delicias Burger	your order is served
5	testadmin1	be2cb3af-6241-4171-9467-1b079cd77864	1 x Delicias Burger	Processing your order
6	testadmin1	144efc31-3ddf-4659-b342-e0a65dc85564	1 x New Era 9Forty LA Dodgers adjustable cap in black	Processing your order
7	testadmin1	f2de5083-d1e8-4c57-8c3b-3a89dfdd9292	1 x New Era 9Forty LA Dodgers adjustable cap in black	Processing your order

Fig 4.1.2.3 Visible order page

### 4.1.3.0 font-end-design for the owner

We will discuss front-end-design for the owner site. The owner can see all virtually visible all products on the font-end-pages without registration when the owner needs monitoring on the product quality, services, payment, etc owner has must be registration and login.

Figure 4.1.3.1 registration page

Figure 4.1.3.2 login page

Figure 4.1.3.3 Adminpage

Figure 4.1.3.4 product upload page

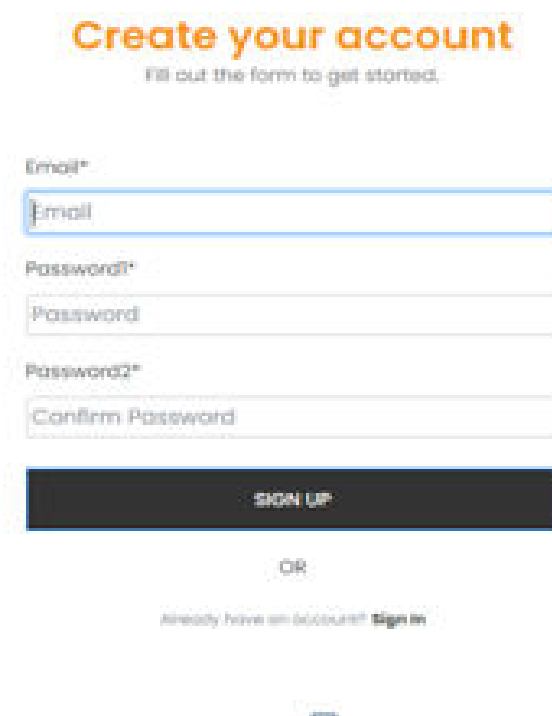
Figure 4.1.3.5 product update &delete page

Figure 4.1.3.6 order counter section page of the this app

Figure 4.1.3.7 visible order upload page

### 4.1.3.1 Registration page

In this registration page, the Owner can be the registration user name, email or phone number and valid password after filling up all field then enter the submit button and registration is successful

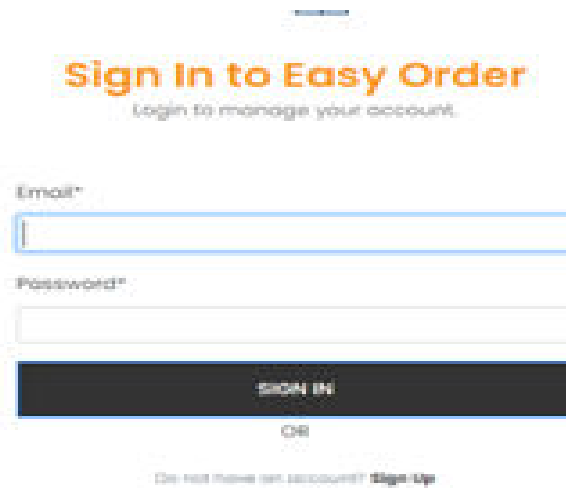


The image shows a registration form titled "Create your account" with the subtitle "Fill out the form to get started." The form contains three input fields: "Email\*", "Password\*", and "Password2\*" (labeled "Confirm Password"). Below the fields is a dark "SIGN UP" button. Underneath the button is the text "OR" and a link that says "Already have an account? Sign in". At the bottom of the form area, there is a small logo for "Daffodil International University".

Fig 4.1.3.2 Registration page

### 4.1.3.2 Login page

The chef can be login after enter the valid user type, username, and password after registration successful a user can be logged in this Admin page



**Sign In to Easy Order**  
Login to manage your account.

Email\*

Password\*

**SIGN IN**

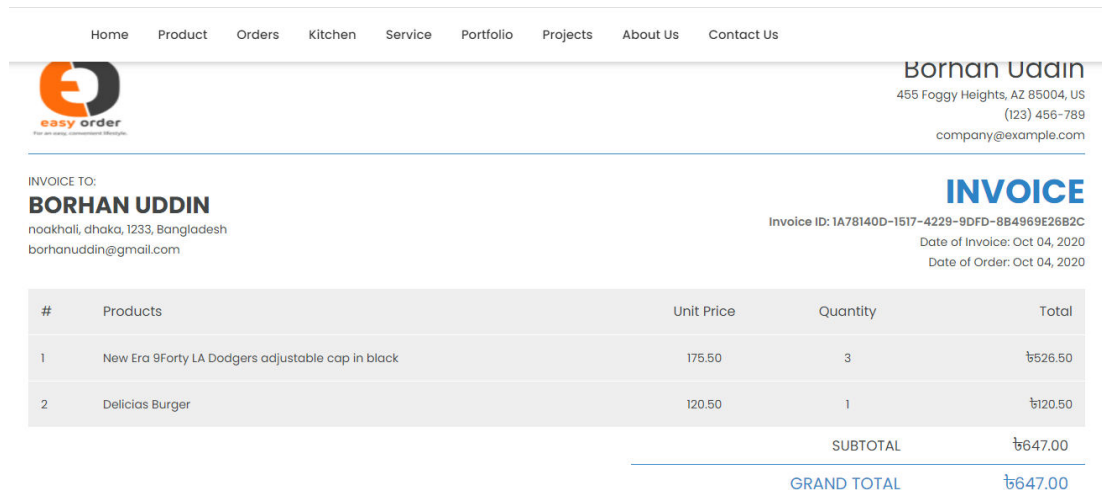
OR

Do not have an account? [Sign Up](#)

Fig4.3.2 Login page

#### 4.1.3.4 Admin page

On this page, the owner can be monitoring full application, where can be products upload, delete and update, etc



The screenshot displays an admin interface for 'easy order'. At the top, there is a navigation menu with links: Home, Product, Orders, Kitchen, Service, Portfolio, Projects, About Us, and Contact Us. The company logo 'easy order' is on the left, and contact information for 'Bornan Uddin' is on the right. The main content area shows an invoice for 'BORHAN UDDIN' with the following details:

- Invoice ID: 1A78140D-1517-4229-9DFD-8B4969E26B2C
- Date of Invoice: Oct 04, 2020
- Date of Order: Oct 04, 2020

#	Products	Unit Price	Quantity	Total
1	New Era 9Forty LA Dodgers adjustable cap in black	175.50	3	₹526.50
2	Delicias Burger	120.50	1	₹120.50
			SUBTOTAL	₹647.00
			GRAND TOTAL	₹647.00

Fig4.3.3 Admin page

## 4.2 Back-End Design

The back-end is not visible for the user in the application. In any application, the back-end gives service for the user. The user gives input through the front-end part then the back-end part processes the input. It's the behind-the-scenes functionality – the brain of a site. By using Django, we can build easily back-end design.

## 4.3 Interaction Design and User Experience (UX)

Interaction Design that meaningful communication and collaborative between user and technology. It is a system where communicates People and software technology. User

Experience (UX) is that there is a system overall use and how much it user friendly and how much it easy to user. This will be great full for both user and the authority of the project. How the user will be benefited to use this, that's that the main view of this project. The following figure 4.1.2.6 is showing the Interaction Design.

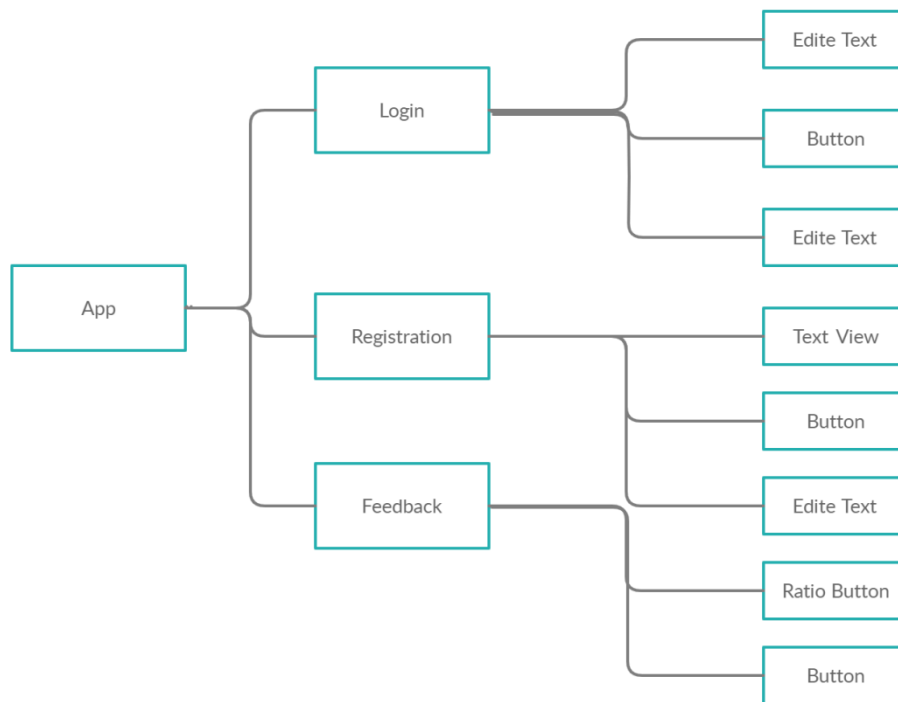


Fig 4.3.1 Interaction Design.

#### 4.4 Implementation Requirements

First of all, we want to develop front end back end and database Relations of this app. We need some IDE and need some programming language markup language styling and database. This app is an android and web-based app. So this app can be used asa web browser and android mobile.

We need some tools like **Sqlite** to turn our machine into a local server. For front-end design, we need to React and React Bootstrap. Used the **SQLite** database for store data and need **Django** to process data and interact with the database. Used java for launch app to mobile-based. Used IDE android studio for lunching the android based app.

## CHAPTER-05

### IMPLEMENTATION AND TESTING

#### 5.1.0 Implementation of Front-End Design of Android

Here we show the registration page. The registration page has some fields like the email password. If any user once registered then he or she does not registered again use the same email. Another task is password if the users entered less then 6 character passwords then show a warning message. If the user gives 6 character passwords then show a warning message. If the user gives 6 character passwords then the user can register successfully.

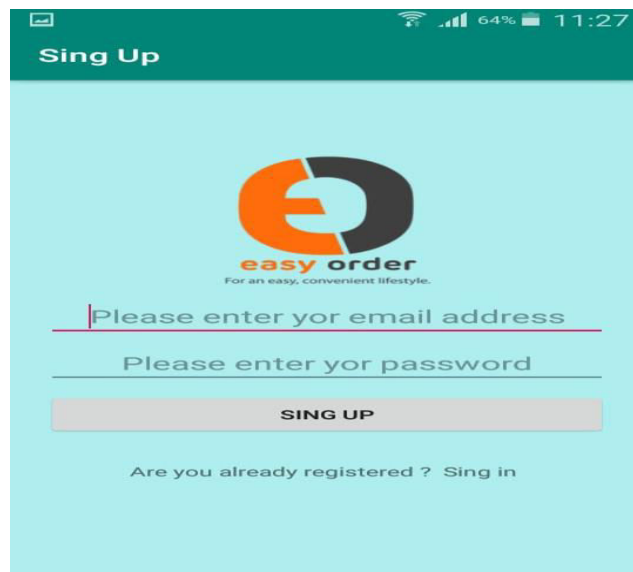


Fig 5.1.0: sing up



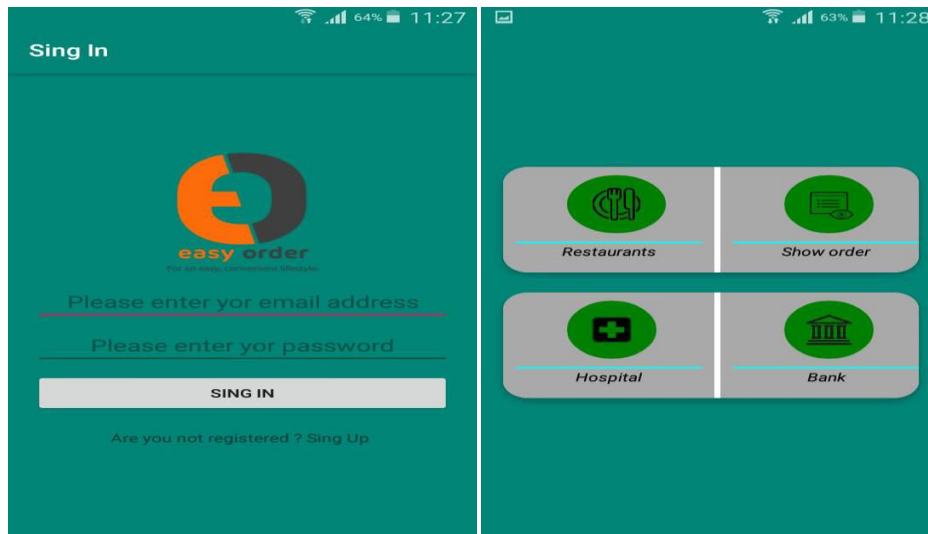


Fig 5.2.2: Sign In page & Dashboard

On this sign-in page, when the customer can successfully register form, then entered data kept in Firebase Database and the user can be the access of the dashboard of the application.

### 5.3 Testing Implementation

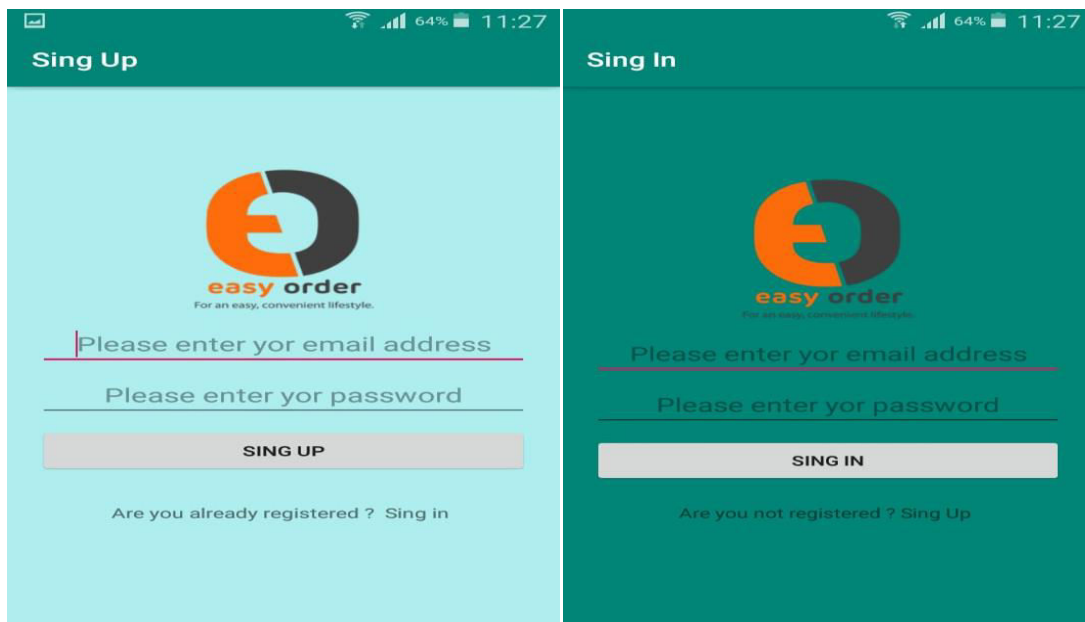


Fig 5.2.3: Testing Implementation

We show Sign In page. When the user can successfully be registered then the user can sign in. If the user gives a valid email and gives a valid password then entered the login page.

If the user entered an invalid email or password then show a message. Here we show a warning message.

## **CHAPTER-06**

### **Impact on Society, Ethical Aspects, Sustainability**

#### **6.1 Impact on Society**

In mordent civilization, the restaurant has various problems for the order system. Restaurants have an order menu card system that takes lots of time to give a product order and serve. Time isvaluable for all of us. so, we should need to change the old order system everywhere for the consume and manpowerconsume

#### **6.2 Ethical Aspects**

In this app, there are various ethical aspects like order discipline for the customer monitoring the customer and behavior statistics. Sometimes the customer Expect to get proper care when they come in the restaurant and the owner can be monitoring all the customer for the good feedback.

#### **6.3 Sustainability Plan**

This app basically can be usedas Owner and customer. In this app, the Owner and the customer can be registered as admin and user.everyone can register for this application.

## **CHAPTER-07**

### **Conclusion and Future Scope**

#### **7.1 Discussion and Conclusion**

We have attempted our level best to complete this android application and web application. We began it by making the enrollment page and gradually more highlights have been included in this application. Two kinds of client proprietors and client. At the point when the client-side can effectively login then show their client profile show. On the proprietor's side, the proprietor can be motoring all sites. Show server conducts measurements and foresees client status. Utilize this application proprietor can monitor their client. So our application is extremely helpful for the proprietor and client.

#### **7.2 Scope for Further Developments**

An android application can be grown to an ever-increasing extent, there has no constraint being developed. For easy to use and simple, a designer consistently attempts to make an application built up each day. Our application is exceptionally simple to utilize. If we include some new elements in the future the new component resembles programmed SMS to the client during the follow-up time. The proprietor can see warning dependent on criticism and the proprietor get ready when the client has low input. On the off chance that we include the element in the future, the application will be more successful and valuable. We will attempt to include these highlights in this application in the future. We trust we can do it effectively.

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