

Android based “Happy Shopping” E-Commerce site

BY

Ragib Muid
ID: 171-15-8708
AND

Shammi Akter
ID: 171-15-8654
AND

Srabonti Sen
ID: 171-15-8835

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

Supervised By

Refath Ara Hossain
Lecturer
Department of CSE
Daffodil International University

Co-Supervised By

Rubaiya Hafiz
Senior Lecturer
Department of CSE
Daffodil International University



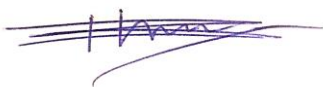
DAFFODIL INTERNATIONAL UNIVERSITY DHAKA, BANGLADESH

June 2021

APPROVAL

This Project titled “**Android based "Happy Shopping" E-Commerce site**”, submitted by **Ragib Muid, ID No: 171-15-8708** and **Shammi Akter, ID No: 171-15-8654** and **Srabonti Sen, ID No: 171-15-8835** 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 “**Tuesday, 01 June 2021**”.

BOARD OF EXAMINERS



Dr. Touhid Bhuiyan
Professor and Head

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Chairman



Abdus Sattar
Assistant Professor

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Md. Jueal Mia
Senior Lecturer

Department of Computer Science and Engineering
Faculty of Science & Information Technology
Daffodil International University

Internal Examiner



Dr. Dewan Md. Farid
Associate Professor

Department of Computer Science and Engineering
United International University

External Examiner

DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Refath Ara Hossain, 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.

Supervised by:



Refath Ara Hossain
Lecturer
Department of CSE
Daffodil International University

Submitted by:



Ragib Muid
ID: 171-15-8708
Department of CSE
Daffodil International University



Shammi Akter
ID: 171-15-8654
Department of CSE
Daffodil International University



Srabonti Sen
ID: 171-15-8835
Department of CSE
Daffodil International University

ACKNOWLEDGEMENT

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

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

We would like to express our heartiest gratitude to **Dr. Touhid Bhuiyan, 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.

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

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

ABSTRACT

Information technology has brought a complete change in modern life. People have good belief in about the Android device. Happy Shopping is an android based online shopping system. Online shopping is a process where customer is directly buy goods or services from a seller in a real time over the internet. As a result, customer no need to meet seller for buy product. This system works as an android application. We have made this e-commerce site for everyone. Happy shopping has two section, there are admin panel and user panel. Admin can add product, accept order from customers and then go to next process for delivery system. User are our customer, how they use it properly that is our concern that's why this app is user friendly any can use this because this system was so easy to work. Customer can also know their products details and price and can order if they like. For order, customer add product to the cart and add their address number and needed information fill up the delivery process. After that his/her order is done. After that when admin accept the order then the order is complete and customer will collect the parcel at the desire give time. If a customer wants to cancels their ordered product, they can do so at their convenience. This is a plus point for the customer. We try to make this project user friendly. That's why we will focus on both the owner and buyer to make a management system. Customer make the shopping easier and comfortable by using this system.

TABLE OF CONTENTS

CONTENTS	PAGE
Approval	i
Declaration	ii
Acknowledgement	iii
Abstract	iv
Table of Content	v
List of Figures	viii

CHAPTERS

Chapter 1: Introduction	1-2
1.1 Introduction	1
1.2 Motivation	1
1.3 Objectives	1
1.4 Expected Outcome	1
1.5 Report Layout	2
Chapter 2: Background	3-5
2.1 Introduction	3
2.2 Related Works	3
2.3 Scope of the Problem	5
2.4 Challenges	5

Chapter 3: Requirement Specification	6-9
3.1 Business Process Modeling	6
3.2 Requirement Collection and Analysis	7
3.3 Use Case Modeling and Description	8
3.4 Logical Data Model	9
3.5 Design Requirements	9
Chapter 4: Design Specification	10-13
4.1 Front-end Design	10
4.2 Back-end Design	11
4.3 Interaction Design and UX	13
4.4 Implementation Requirements	13
Chapter 5: Implementation and Testing	14-27
5.1 Implementation of Database	14
5.2 Implementation of Front-end Design	17
5.3 Implementation of Interactions	18
5.4 Testing Implementation	24

Chapter 6: Impact On Society, Environment And Sustainability	28
6.1 Impact on Society	28
6.2 Impact on Environment	28
6.3 Ethical Aspects	28
6.4 Sustainability Plan	28
Chapter 7: Conclusion and Future Scope	29
6.1 Discussion and Conclusion	29
6.2 Scope for Further Developments References Appendices	29
References	30

LIST OF FIGURES

Figures	Page
Figure 2.2.1: Daraz.com	3
Figure 2.2.2: Foodpanda.com	4
Figure 2.2.3: Evaly.com	4
Figure 3.1: Business Process Modeling	6
Figure 3.3: Use Case Modeling and Description.	8
Figure 3.4.: Logical Data Model	9
Figure 4.1.1: Front-End Design	10
Figure 4.2.1: Back-End Design	11
Figure 4.2.2: Back-End Design	12
Figure 4.3.1: Interaction Design and UX	13
Figure 5.1.1:Implementation Of Database	14
Figure 5.1.2: Implementation Of Database	15
Figure 5.1.3: Implementation Of Database	16
Figure 5.2: Login View	17
Figure 5.3.1: Mobile View Home Page	18
Figure 5.3.2: Search View	19
Figure 5.3.3: Cart View	20
Figure 5.3.4: Shipping Address View	21
Figure 5.3.5: My Order View	22
Figure 5.3.6: Setting View	23
Figure 5.4.1: Mobile View of Home Page	24
Figure 5.4.2: Add Item View	25
Figure 5.4.3: Add Product Details View	26
Figure 5.4.4: Check Order View	27

Chapter 1

Introduction

1.1 Introduction

This project is an android based online shopping system. Online shopping is a process where customer is directly buy goods or services from a seller in a real time over the internet. It is a from of e-commerce site. It helps to buying the product anywhere through the internet by using an android device. Customer will get the services of online shopping and home delivery of his favourite product.

1.2 Motivation

Information technology has brought a complete change in modern life. People have good belief in about the Android device. Everyone can see the products through this e-commerce site. People can order if they like. We will deliver the goods to that address according to the information given to us. After ordering the product, if any buyer thinks that he will cancel the ordered product, there will also be an option. So, we will focus on both the owner and buyer to make a management system.

1.3 Objective

We have made this e-commerce site for everyone. Customers will be able to view and buy products here. customer make the shopping easier and comfortable. They can also cancel the order only before delivery if they wish. We try to make this system user friendly.

1.4 Expected Outcome

Customer can save to many time buy product by online system. Customer can also know their products details and price and can order if they like. As a result, customer no need to meet seller for buy product. Even customer doesn't have to go to any store to get the product. The seller delivers the product to the buyer. This will not waste any extra time of the customer.

1.5 Report Layout

Chapter 1 describes work introduction, motivation, Project objective and Expected outcome of this program.

The Background is important for the project and this chapter discuss the related work such as comparism with other and find out the scope of problem of the project, also the challenges which are face to create the project.

Requirement Specification Chapter defines many important things of the project. The requirement such as designs, business process modeling, requirement collection and analysis, use case modeling and the logical data model.

The purpose of the Design Specification chapter is the design of the project. Two types of design which are front-end design and back-end design for this project. The proper implementation of the design is very important which describes this chapter in detail.

Implementation and Testing chapter shows the implementation and testing system of the project by the project screenshot. After completion of any project, testing data and its success tell is the project is ready to live.

Impact of the project on society, environment and sustainability is helpful for others because of in this situation people are busy anywhere so much such as they are not given time in shopping so that the management of this project will very easy to work with it.

Chapter 7 define every single project has some limitation and how it can be overcome and also the future implementation scope is discussed in this chapter.

Chapter 2

Background

2.1 Introduction

In today's modern world people are dependent on online base technology. People depend on the Internet for almost everything in life. Now people almost all product buy online. By our android application they can buy the products of their choice. They can get better buying system in this application named “Happy Shopping”.

2.2 Related Works

Happy shopping is a procedure that helps customer to perform their best. Consumer can easily buy products by installing the Android application. Consumer Will order the product of their choice here and we will delivery it. Some e-commerce site already has been formed based on it. There is some common feature each system. They are Daraz, Foodpanda ,Evaly, Chaldal, Fast online shop etc. The following figure 2.2.1 ,2.2.2 and 2.2.3 show the home page of Daraz.com,Foodpanda.com and Evaly.com.

Daraz

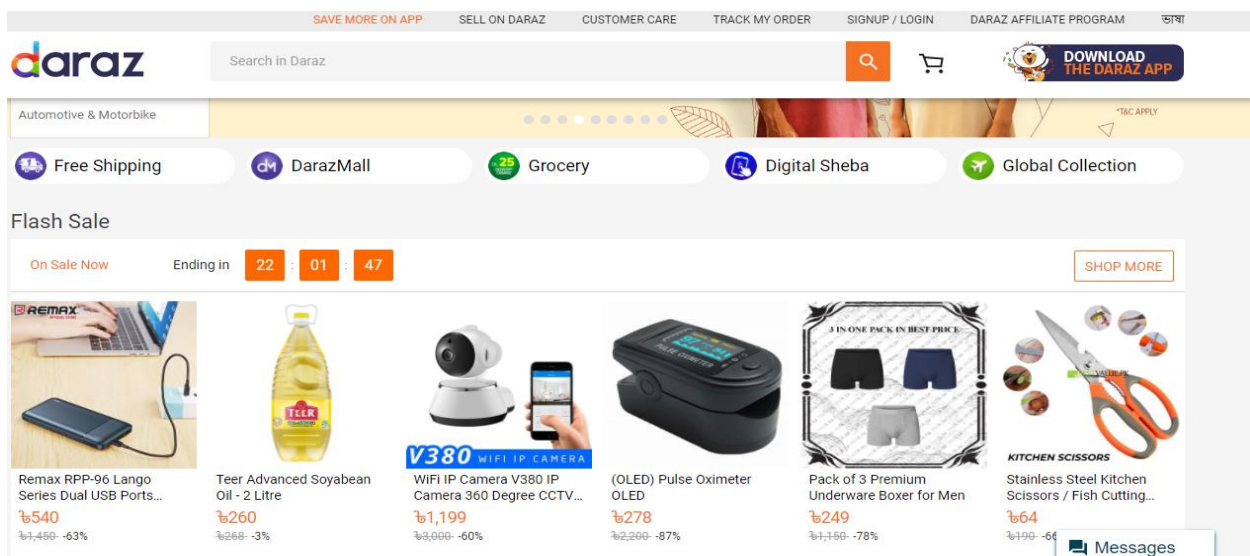


Figure 2.2.1: Daraz.com

Foodpanda

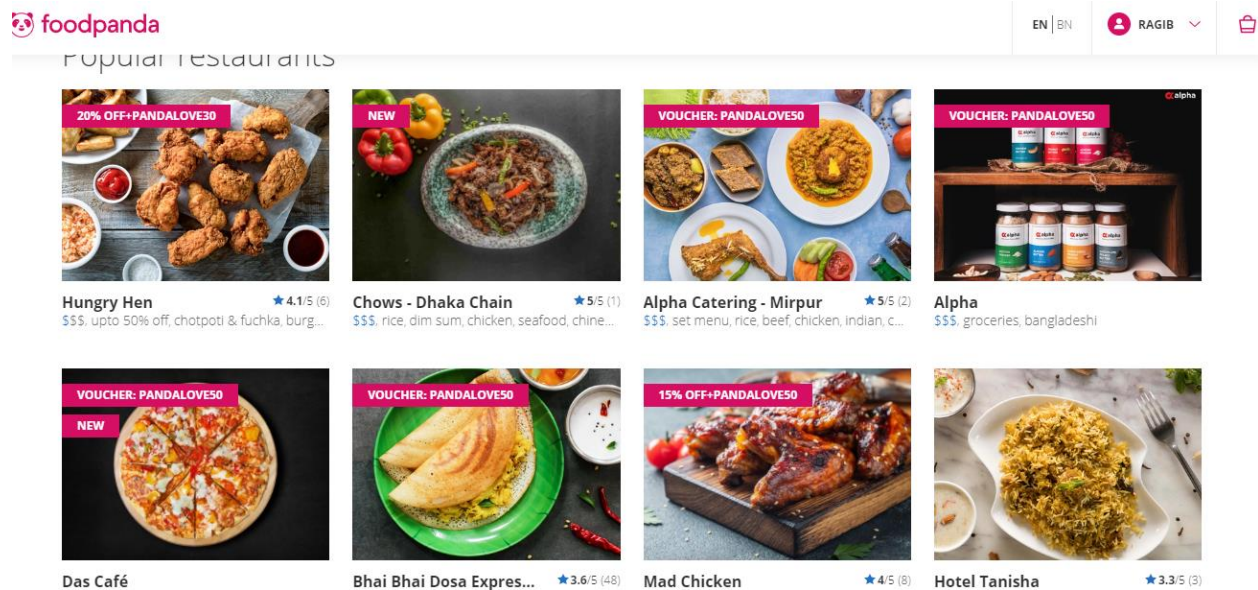


Figure 2.2.2: Foodpanda.com.bd

Evaly

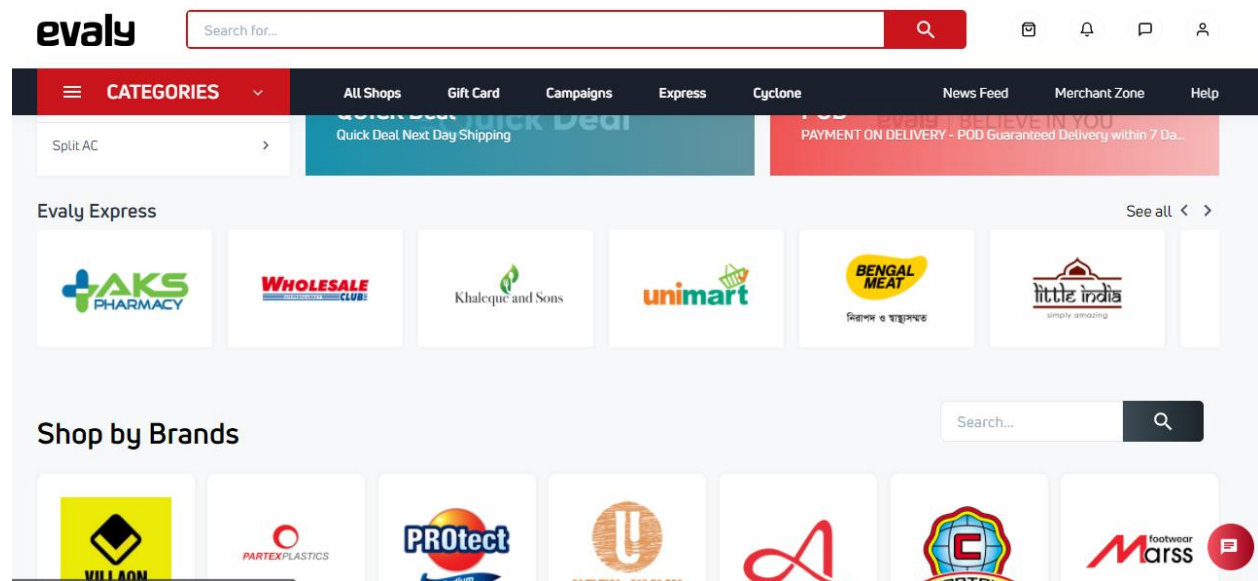


Figure 2.2.3: Evaly.com

2.3 Scope of The Problem

Internet usage is low in our country but it is slowly increasing. Internet connection system is not very good in our country and The comparative cost is higher. The internet is still not available in various places in our country. For example, in rural areas, the internet system is a bit shaky. And that it is the problem of products delivery in rural areas.

2.5 Challenges

There are challenges in every case. For our project we have faced some challenges.

1. This is our Android base e-commerce site so Lack of internet connection is our main challenge.
2. We should create the application properly as if it is very smooth.
3. Many customers not agree to use this online system.
4. Information confidential is one of the most challenging for us.

Chapter 3

Requirement Specification

3.1 Business Process Modeling

Business Process modeling is the graphical representation or workflows, as means of identifying the potential improvements. In this part we will discuss how this app actually work. How admin can add product and process order by the customers. [7]. The following figure 3.1 is given below Business Process Modeling.

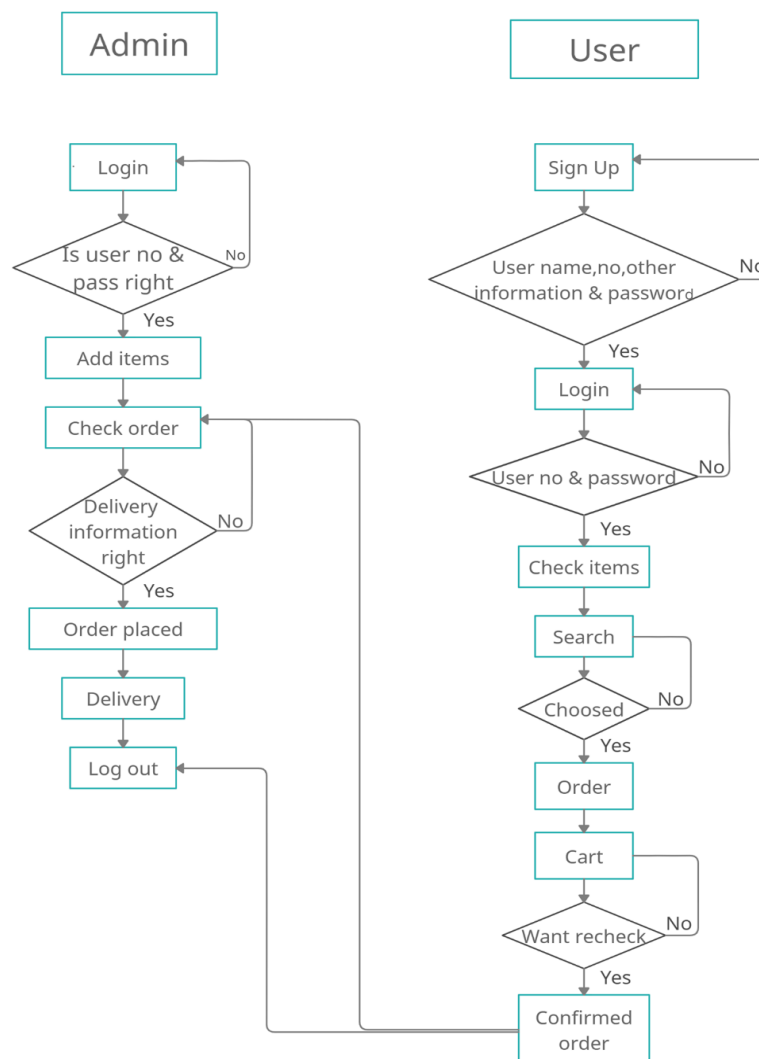


Figure3.1: Business Process Modeling

3.2 Requirement Collection Analysis

Basically, in our app Admin is most powerful character. That means, a customer can do whatever he/ she wants, he/she can choose product and place order but after one order the customer can't repeat order again until admin approved previous one.

My app has two panel. One is admin and another one is user panel. For Admin, it will automatically create by the developer. By those credential Admin can login to their panel. And for User panel, they have to create provide their phone no, Name and password which will automatically store in the firebase database.

3.3 Use Case Modeling and Description

Use case modeling is diagram where it summaries some of the relationship of apps use cases, actor and the system. In Our app we have two panel, one is for admin and another one is for user. In admin panel, admin can add product, product category, manage product and accept order form the user. For doing all of this functionality admin have to login first.

And for User panel, User can view the product, make purchase of the product, can add product to the cart, and finally user can send purchase request to the admin. IF the admin accept the request then product start to shipping. And this is our exceptional feature. [7]. The following figure 3.3 is given below Use Case Modeling and Description.



Figure 3.3: Use Case Modeling and Description

3.4 Logical Data Model

Basically, it is the process of creating a data model for the data to be stored in database. When we do something in the system, then it will first go to firebase database, then it will show to app UI. [7]. The following figure 3.4 is given below Logical Data Model.

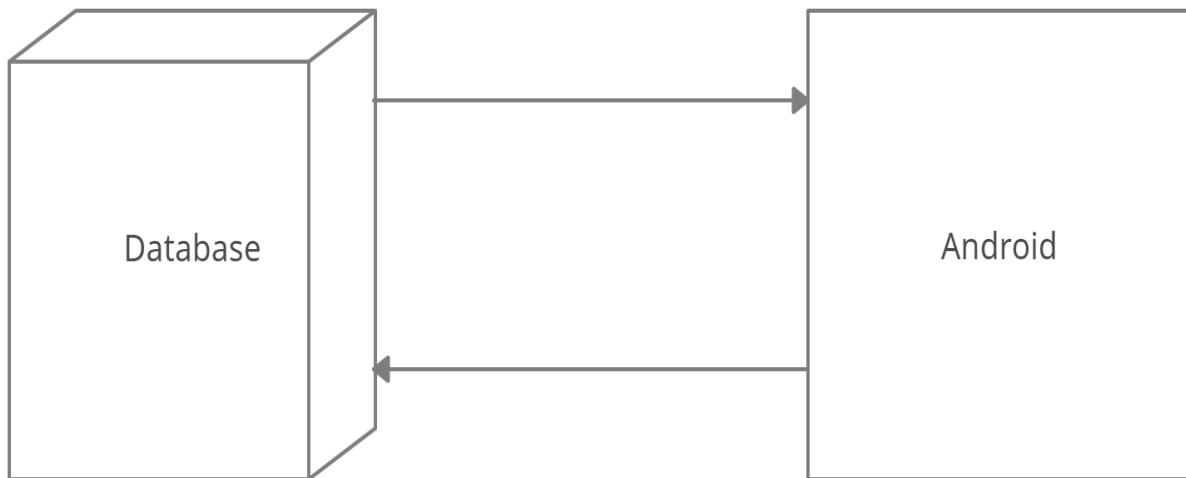


Figure 3.4: Logical Data Model

3.5 Design Requirements

For every web app and mobile application design requirement are very important. Basically it used to catch user. Proper design skill is required to complete this android app. For this app design we need to know xml very well. Also we need to design our app database so that it can work smoothly.

CHAPTER 4

Design Specification

4.1 Front-End Design

Front-End design is one of the reason why it is added directly to the user. As if the subject we make user friendly, is easy to manage and working smoothly. Here every consumer can easy to manage this application. We have used some technology to design the application. This are java,xml,firebase etc. The following figure 4.1.1 is given below Front-End Design.

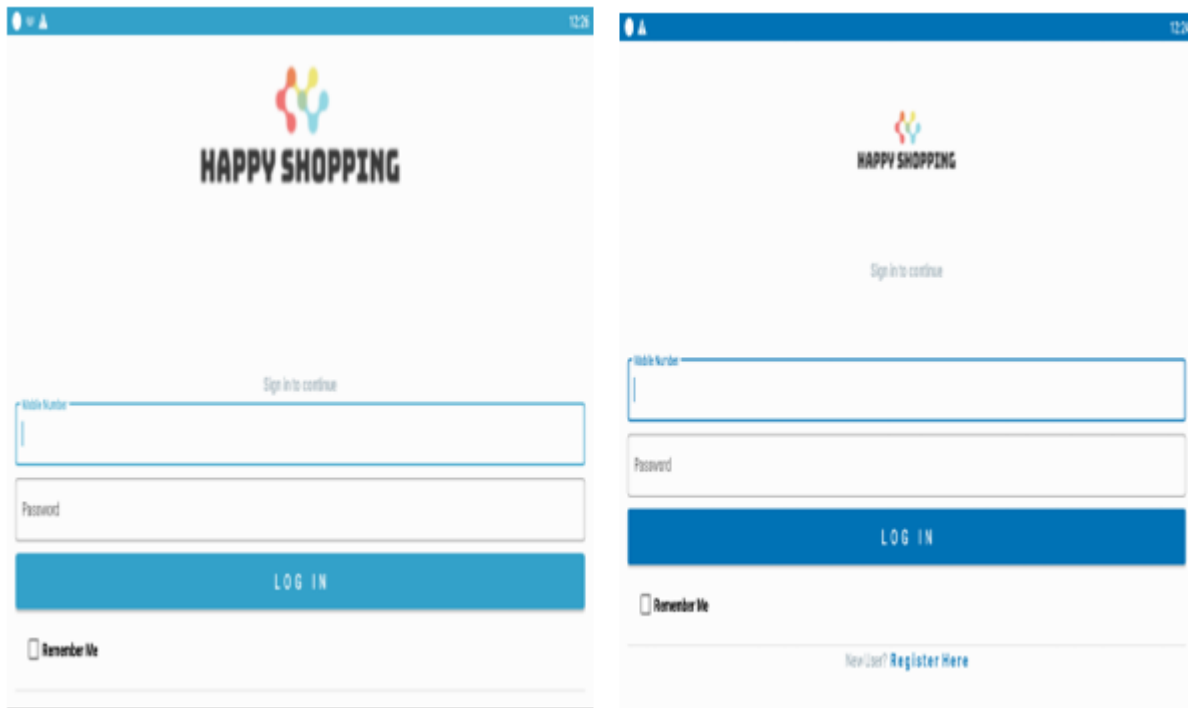


Figure 4.1.1: Front-End Design.

4.2 Back-End Design

Back-End means rendering server side. It is usually consisting of three parts: application, server and database. For database we use Firebase database. Admin will always manage this application. Admin can change product features at any time. The customer who registers will be able to view his profile. [6]. The following figure 4.2.1 and 4.2.2 are given below Back-End Design.

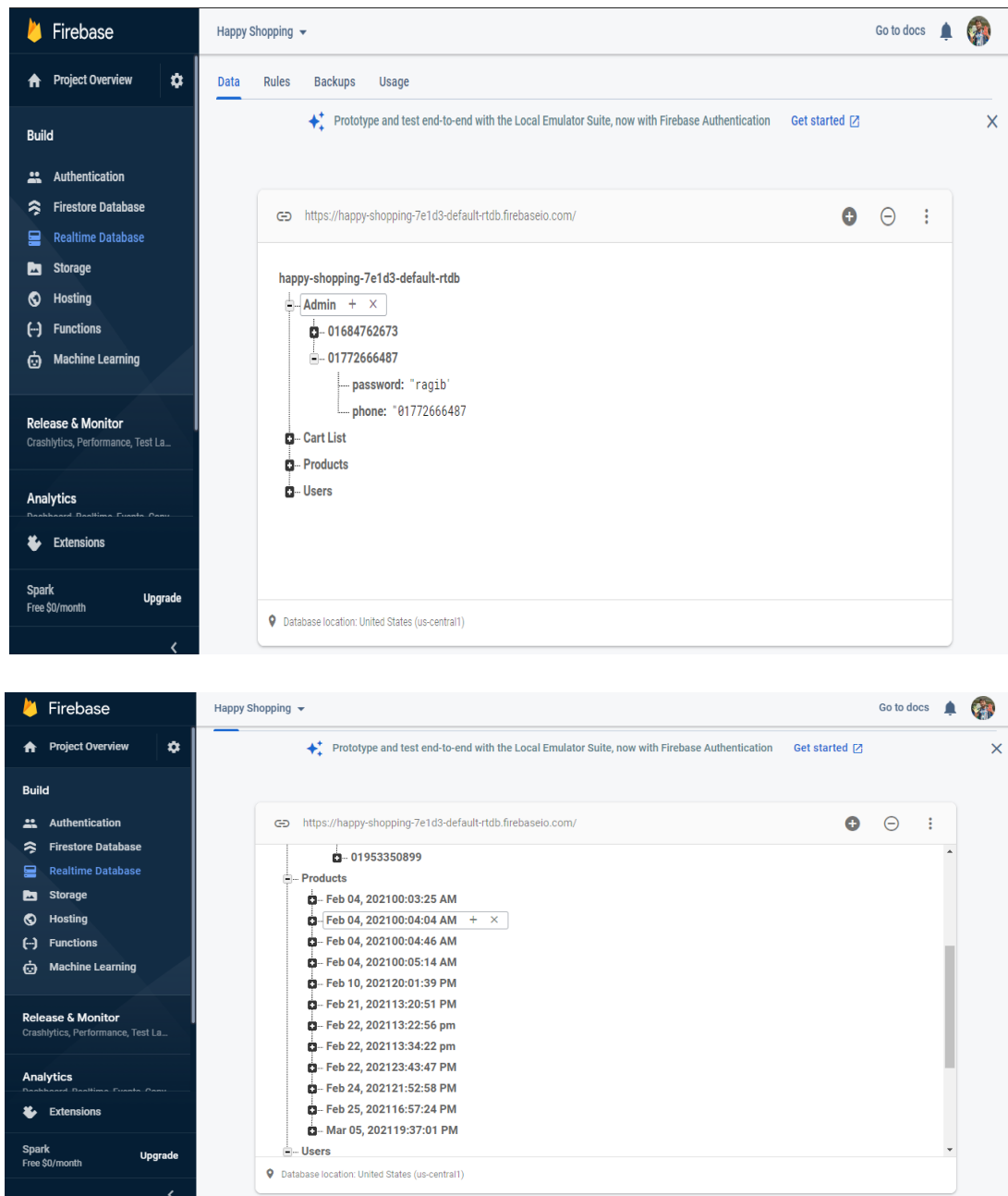


Figure 4.2.1: Back-End Design

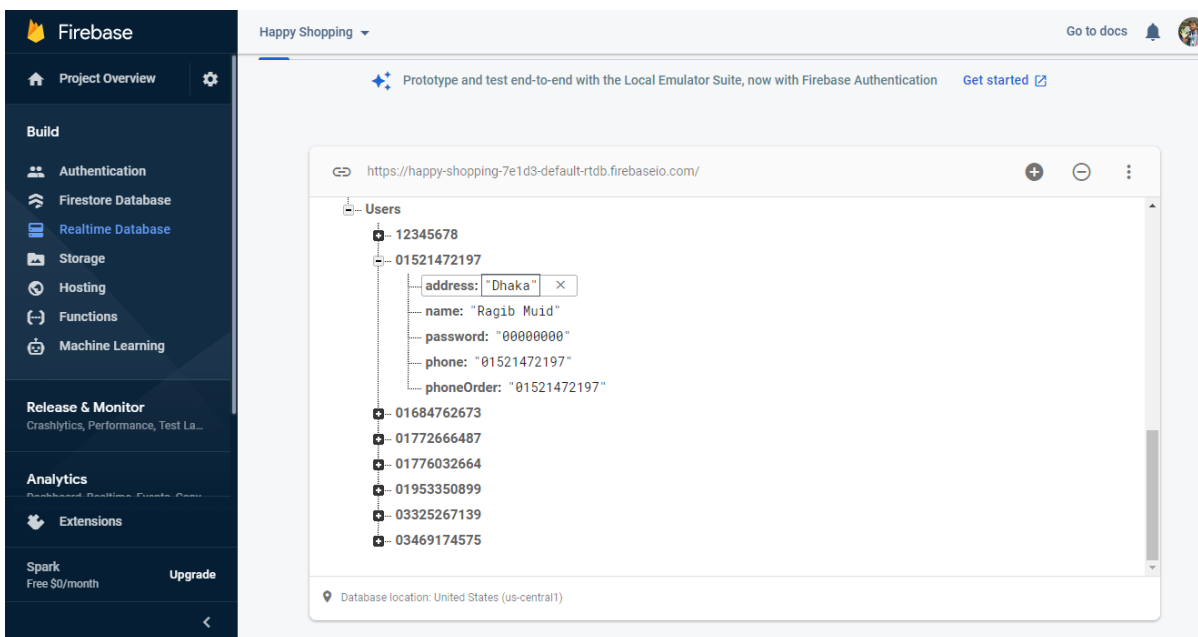
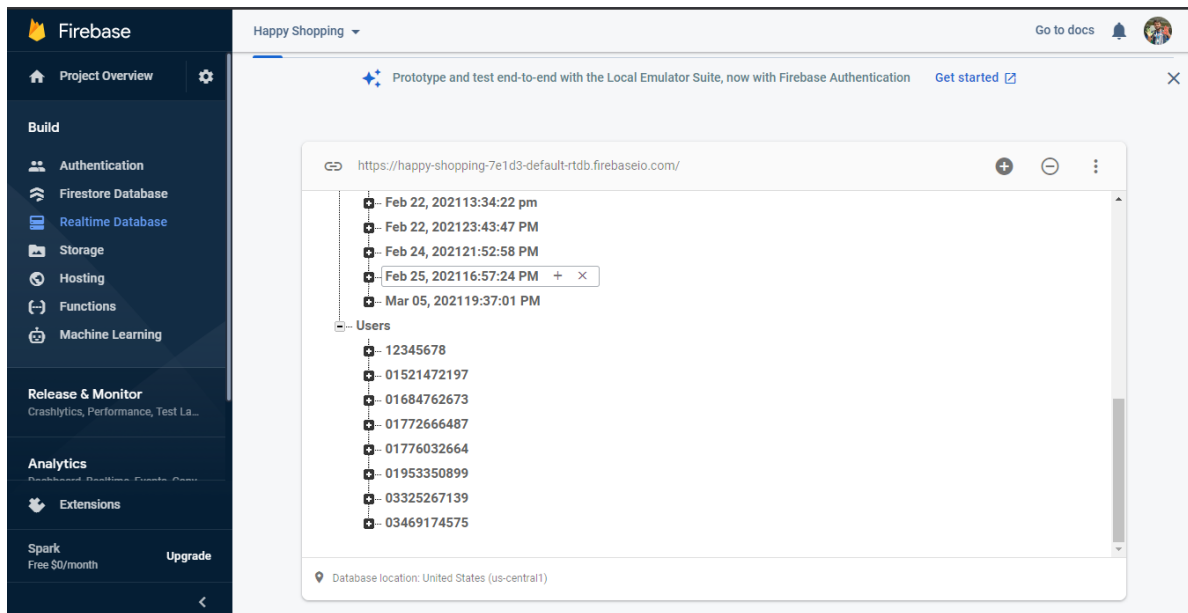
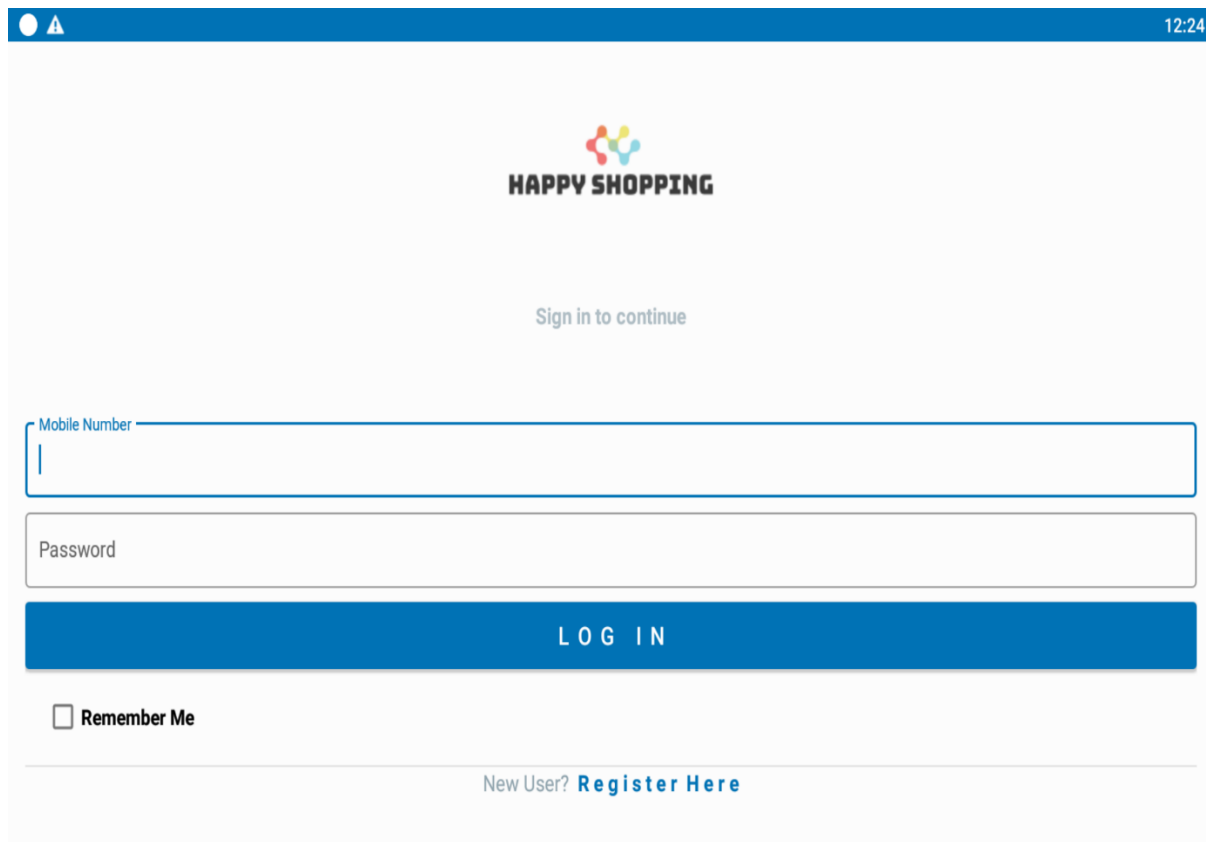


Figure 4.2.2: Back-End Design

4.3 Interaction Design and UX

Interaction design is one of the best important parts of a application. It's the user process and reconnects. It requires some aspects to manage and present easily. Like as Button, Icons, language etc. So that it can be used well and easy to understanding. I able to find that simple UX design has been used this application. So our application design is easy. The following figure 4.3.1 is given below Interaction Design and UX.



The screenshot displays a web application interface for 'HAPPY SHOPPING'. At the top, there is a blue header bar with a window control icon on the left and the time '12:24' on the right. Below the header, the 'HAPPY SHOPPING' logo is centered, featuring a colorful icon above the text. Underneath the logo, the text 'Sign in to continue' is displayed. The main form area contains two input fields: 'Mobile Number' and 'Password'. Below these fields is a prominent blue 'LOG IN' button. At the bottom of the form, there is a checkbox labeled 'Remember Me' and a link that says 'New User? Register Here'.

Figure 4.3.1: Interaction Design and UX

4.4 Implementation Requirements

It was our first application so we learned something new technology. So we spend a lot of time to get the application. There is a lot to think about to make the UX design.

Chapter 5

Implementation and Testing

5.1 Implementation of Database

Database design and implementation of the database are very important for data storage. Database designs how data can be presented in tables. In this project we use Firebase database which is a related database management system. The database provides a lot of data for the data model. [6]. The following figure 5.1.1 ,5.1.2 and 5.1.3 are given below Implementation of Database.

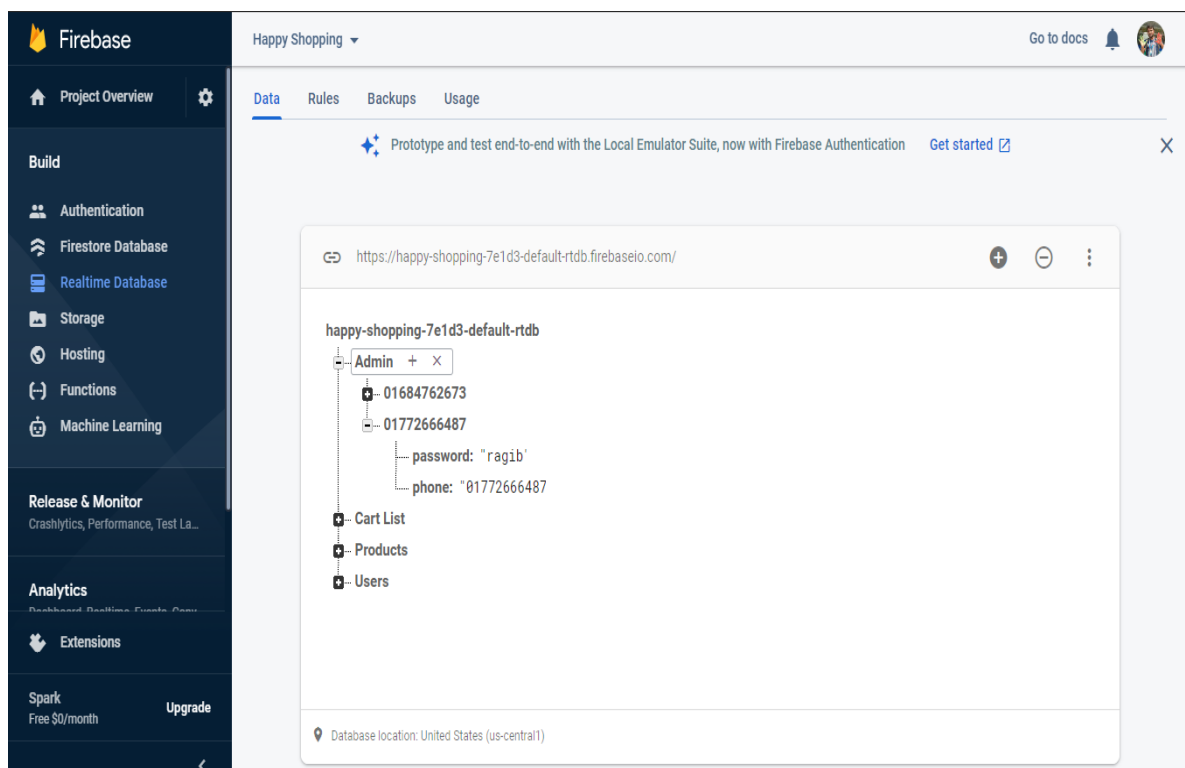


Figure 5.1.1: Implementation of database

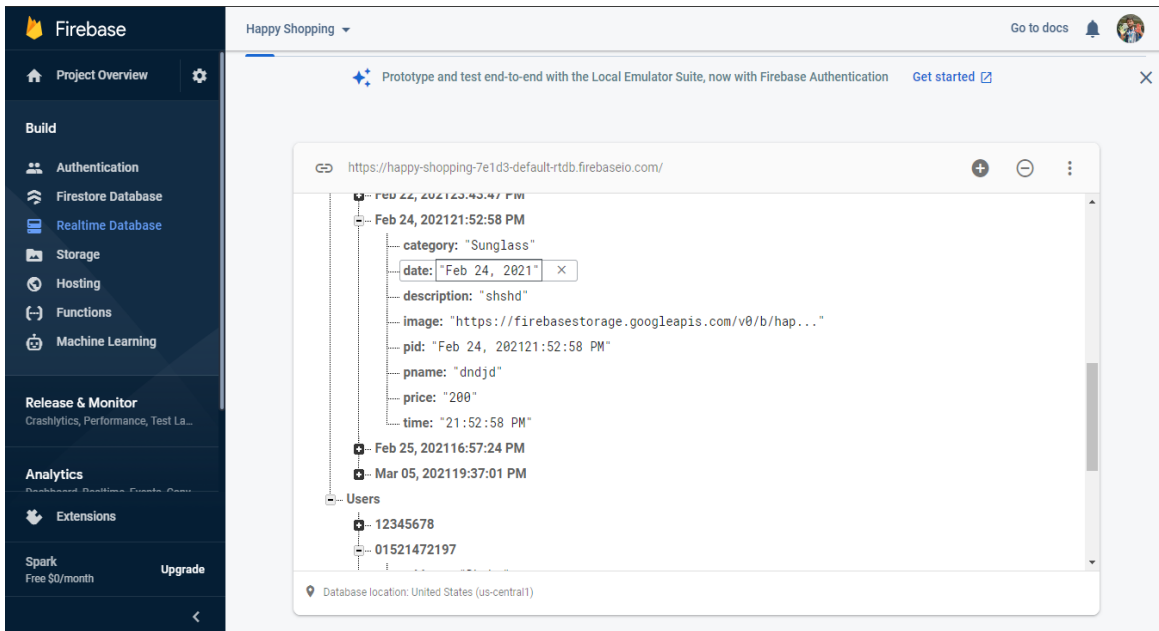
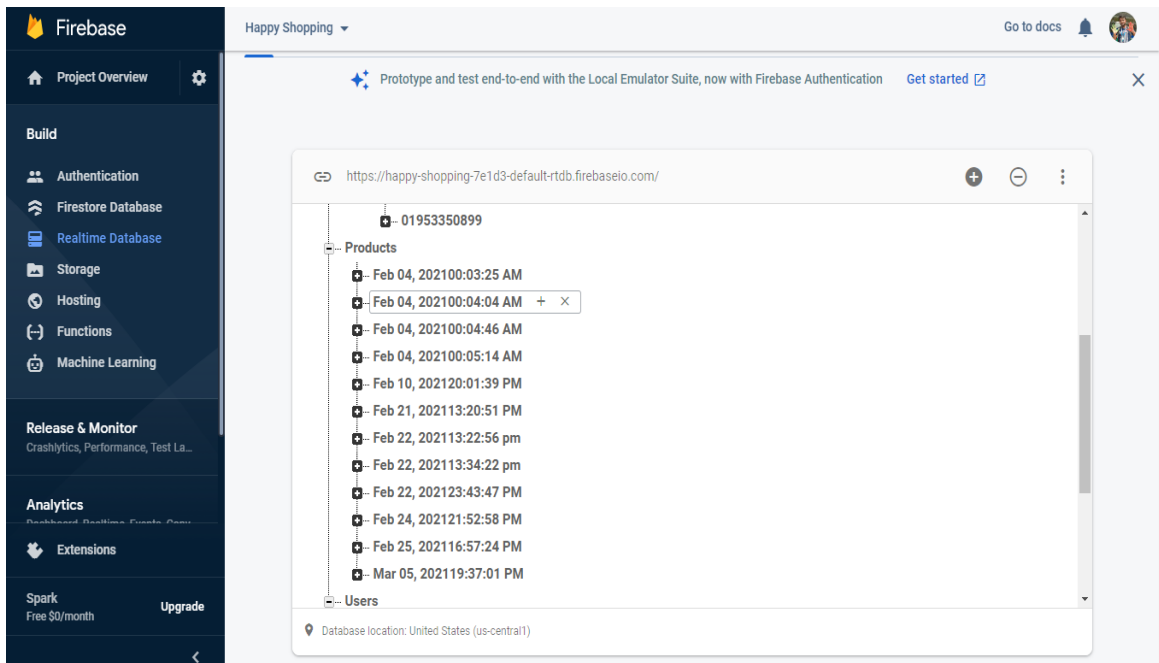


Figure 5.1.2: Implementation of database

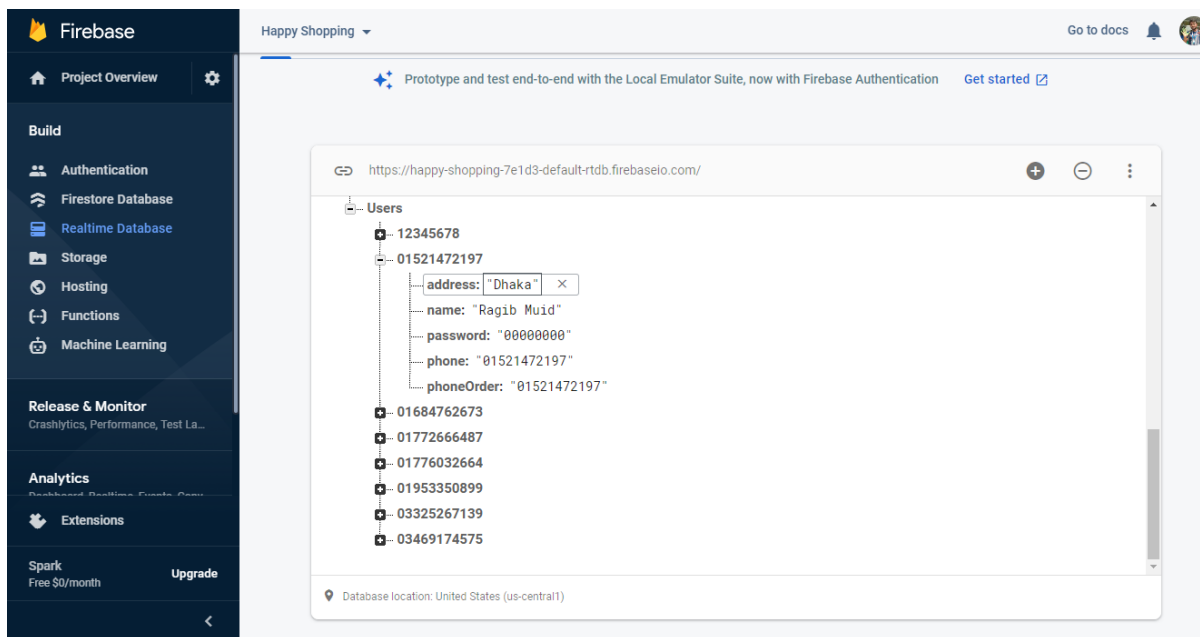
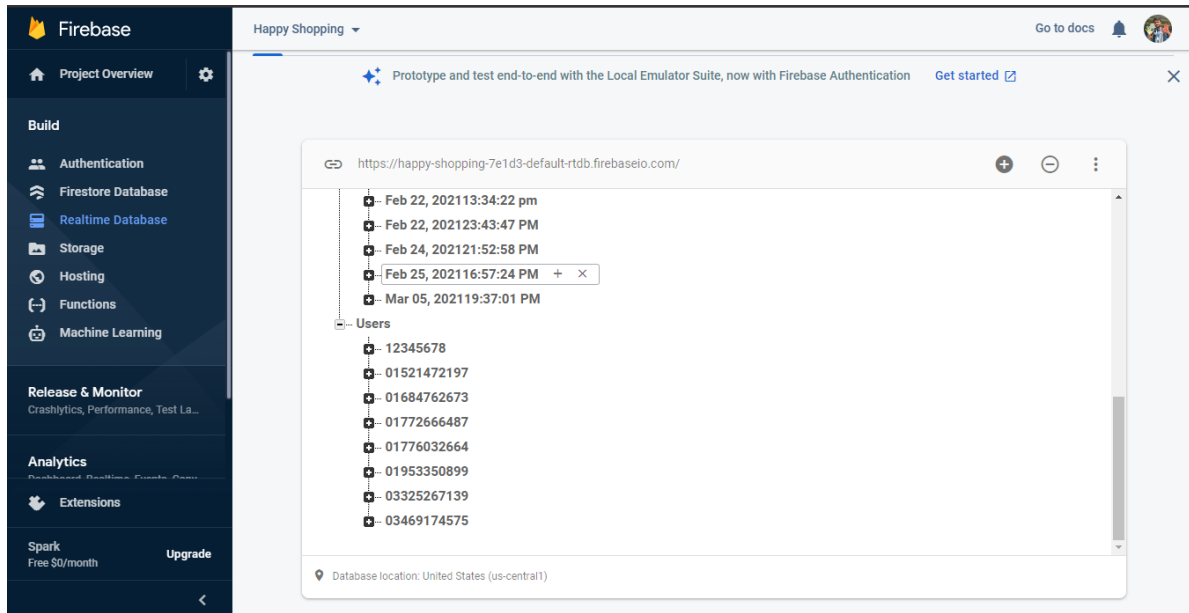


Figure 5.1.3: Implementation of database

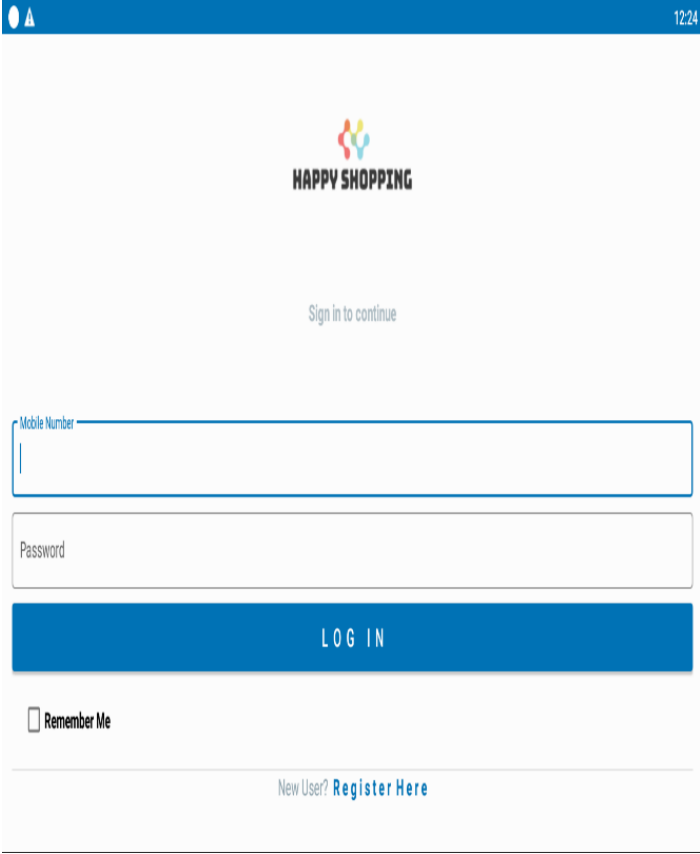
5.2 Implementation of Front-end Design

Front-end design is a very important part because scene at user. Because the user is attracted after seeing it. It is our goal to make it look attractive and user friendly. Makes the perfect design attractive and that it is much difficult to make. We have to spend a lot of time to design. [3].

User site:

Login View

The title of our project is in the login view. And there is a login button for information. The user needs to login to use the application. Firstly, you have to register it with phone number and password. After that you have to login phone number and password. The following figure 5.2 is given below Login View.



The screenshot displays the login interface for 'HAPPY SHOPPING'. At the top, a blue header bar contains a user profile icon and the time '12:24'. The main content area features the 'HAPPY SHOPPING' logo, which consists of a colorful icon above the text. Below the logo, the text 'Sign in to continue' is centered. The login form includes a 'Mobile Number' input field with a blue border and a vertical cursor, followed by a 'Password' input field with a grey border. A prominent blue 'LOG IN' button is positioned below the password field. Underneath the button is a 'Remember Me' checkbox. At the bottom of the form, a link 'New User? Register Here' is displayed in blue text.

Figure 5.2: Login View

5.3 Implementation of Interactions

Home View

Actually home view is the cover photo. The main features on the left are given. The features are Cart, Search item, Setting, Logout, My Order, About. And the right side show all products. Here the customer can see many types of product to buy his product. The name and price of the product will also be displayed here. The following figure 5.3.1 is given below Home View.

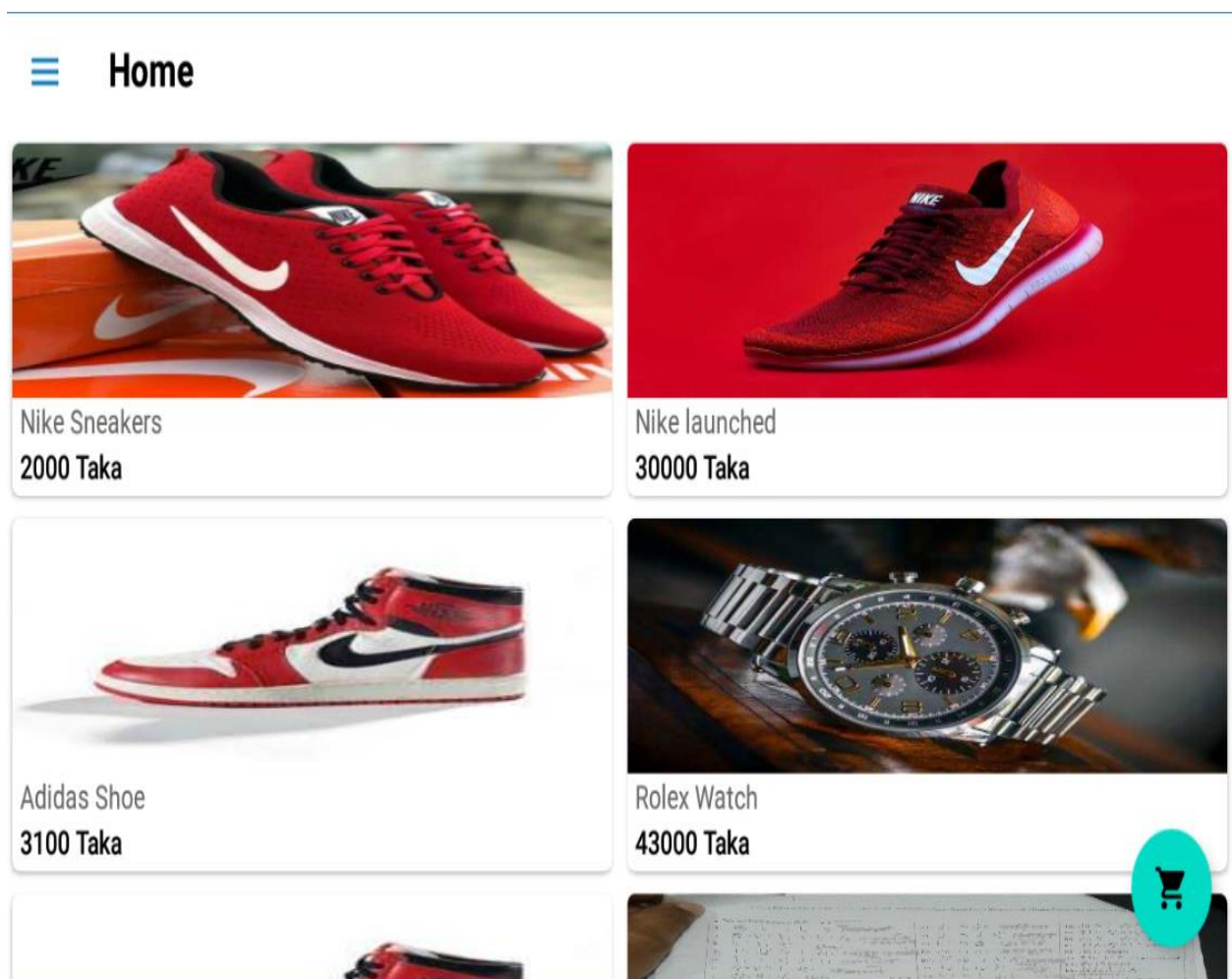


Figure 5.3.1: Mobile View Home Page

Search View

Search option is used to find something very easy. The buyer can use it to find the product of his choice very easily. If the buyer writes the name of the product of his choice in the search bar, it will show up very quickly and easily. In this case, he does not have to find the product of his choice one by one. It is very convenient for the user to purchase the product. The following figure 5.3.2 is given below Search View.

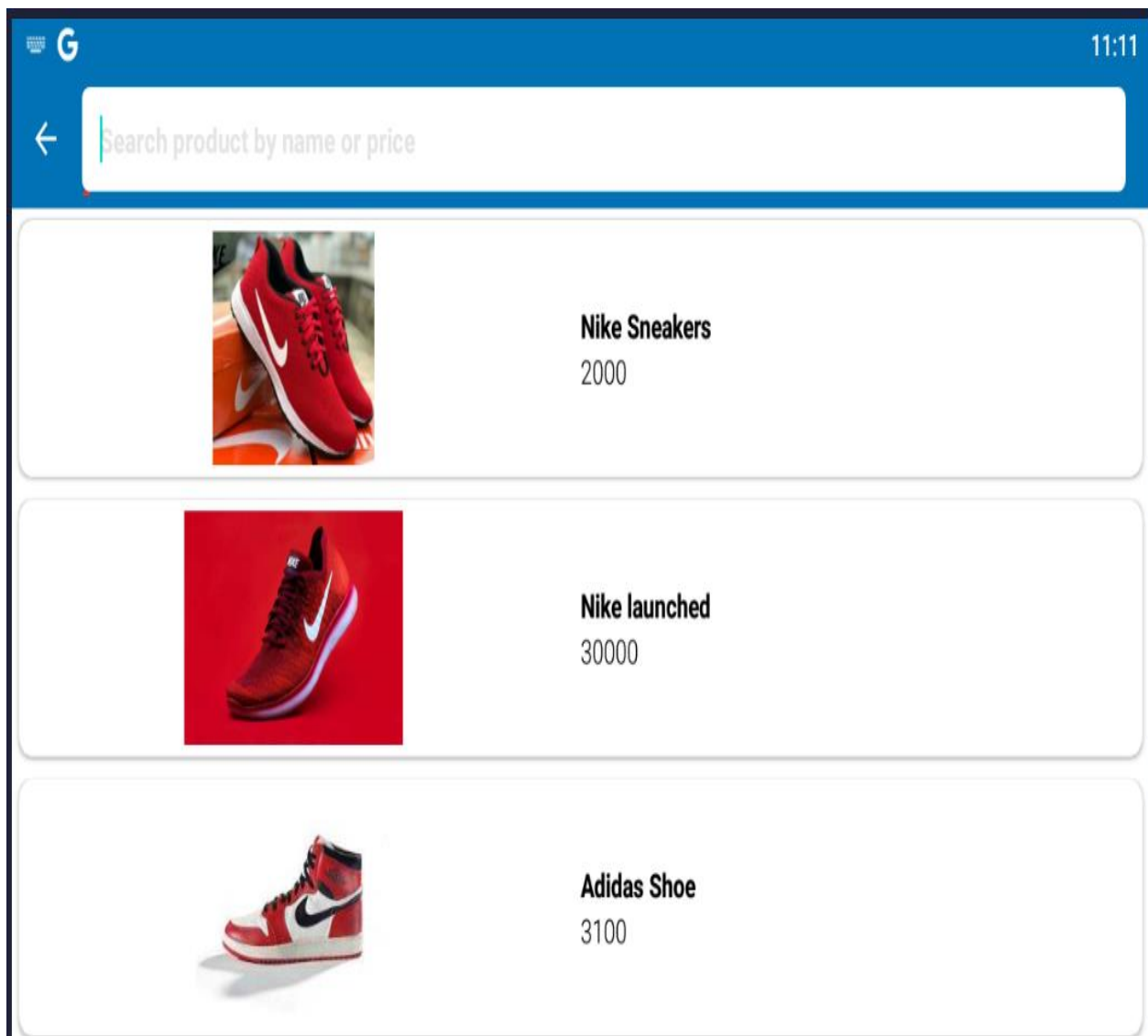


Figure 5.3.2: Search View

Cart view

The customer looks at the products on the home page and selects the product that they would like to purchase. This selected product of the customer comes and is deposited in the Cart view. Customer can select one or more of these products from here. After ADD TO CART, the customer will be able to see the price, name and quantity of the products together. The following figure 5.3.3 is given below Cart View.



Product Name:
Nike Sneakers

Product Description:
Nike Shoes

Product Price:
2000

- 1 +

ADD TO CART

Total Price = 2000\$

Name: Nike Sneakers
Quantity: 1
Price: 2000\$

NEXT

Figure 5.3.3: Cart View

Shipping Address

Here have to give the address to get the product of the customer's choice. Here the customer has to give name, phone number, address and city name. So that the admins do not have wear the problem to deliver the product. After that the admin will be able to see it if the customer confirms. The following figure 5.3.4 is given below Shipping Address.

Please Confirm your details:

Enter Your Name

Ragib Muid

Enter Your Phone Number

01772666487

Enter Your Address

Mohammadpur

Your City Name, Ex: Dhaka

Dhaka

Figure 5.3.4: Shipping Address View

My Order View

After selecting the product of the buyer choice, it will show the product here when the admin accepts it. This way the customer can see the product he has ordered here. When the customer receives the product, he can see from here that the product of the buyer matches the order of the seller product. This gives the buyer the benefit of the doubt. The following figure 5.3.5 is given below My Order View.

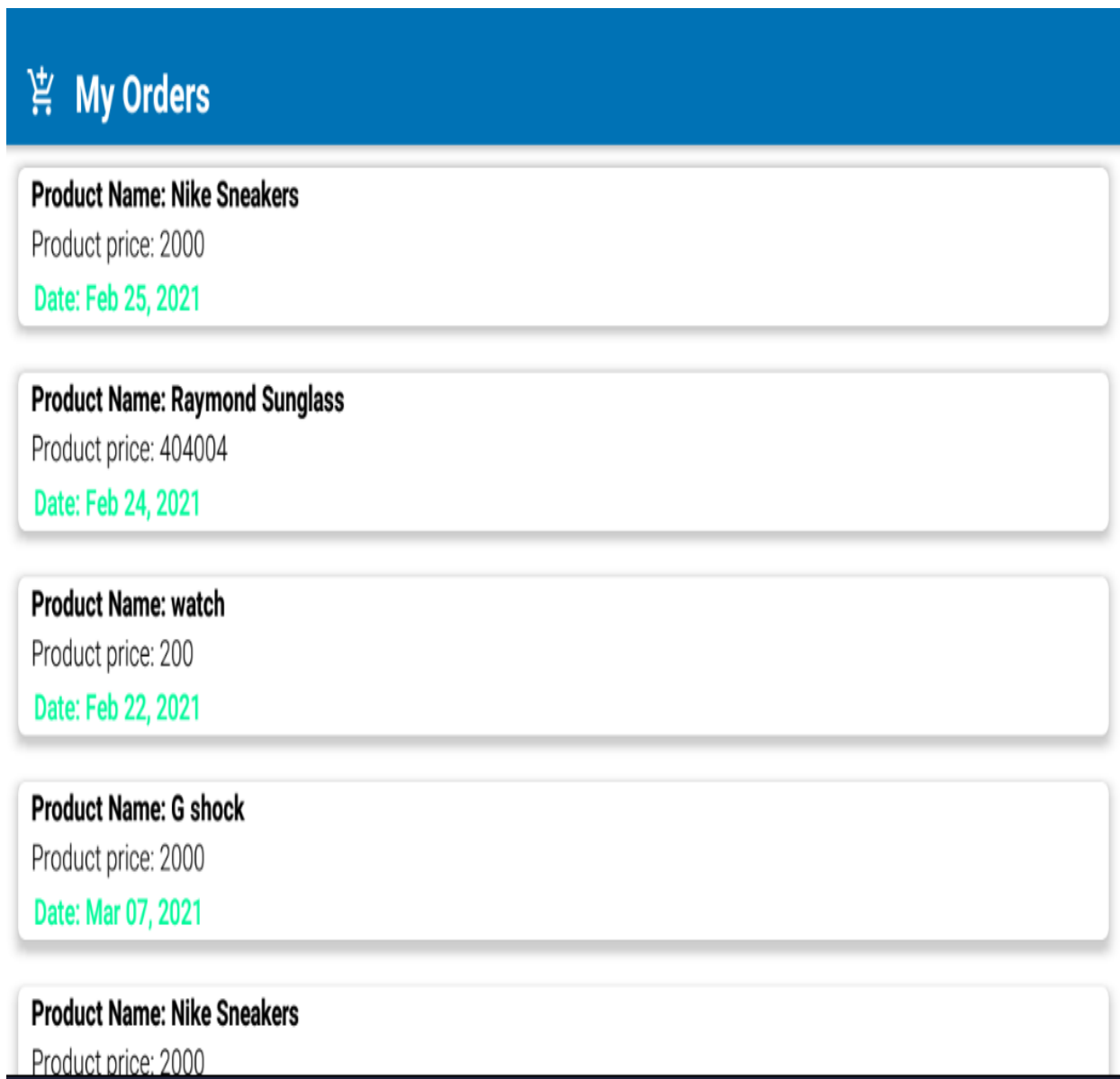
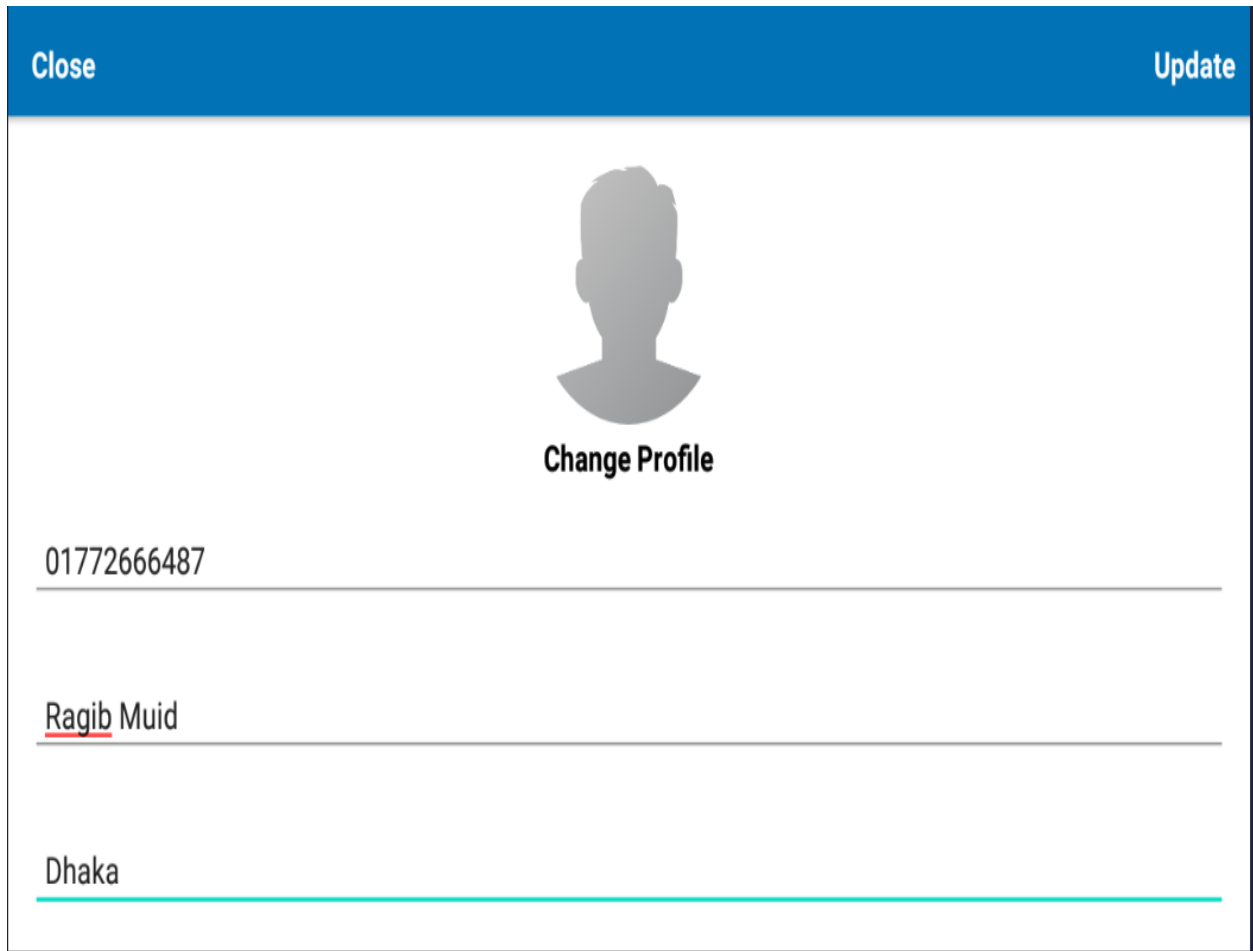


Figure 5.3.5: My Order View

Setting View

Customer can update his profile. When a customer uses the application, he must register the application in his own name. This will facilitate the user to use the application. Here they can set their profile picture, name and address. Then their profile will show in their own name and the profile will be updated. The following figure 5.3.6 is given below Setting View.



The image shows a mobile application interface for updating a profile. It features a blue header bar with 'Close' on the left and 'Update' on the right. In the center, there is a grey silhouette of a person's head and shoulders, with the text 'Change Profile' below it. Below this, there are three input fields: the first contains the number '01772666487', the second contains the name 'Ragib Muid' (with 'Ragib' underlined in red), and the third contains the address 'Dhaka'.

Figure 5.3.6: Setting View

5.4 Testing Implementation

Admin site

Home view

Home view is the cover photo. In this home page we have two features. The first is Add Items and the second is Check Orders. Admin will be able to upload product by going to Add Items for selling products, so that the customer can see the products. And the admin will be able to see the products ordered by the customer by going to check order. The following figure 5.4.1 is given below Home View.

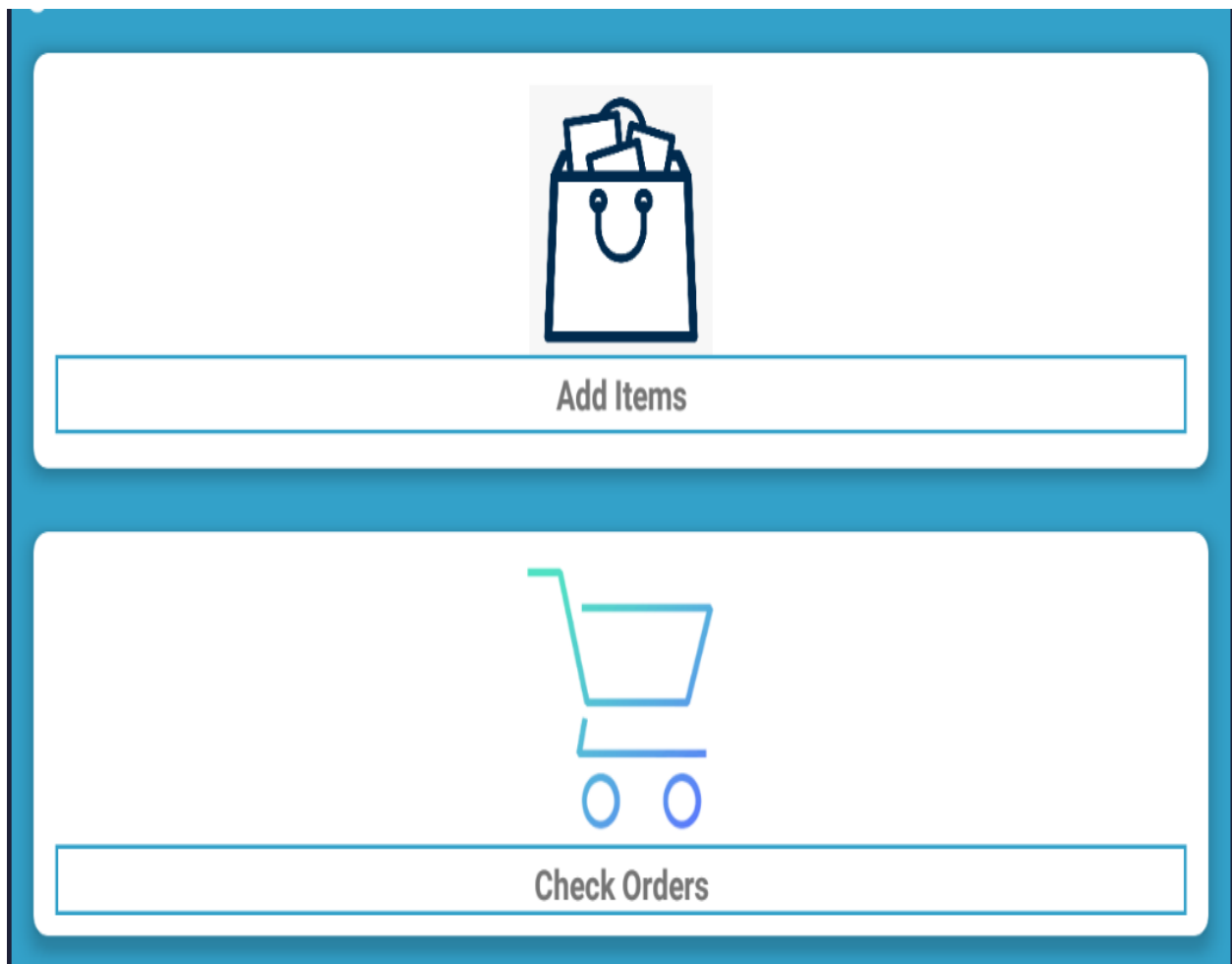


Figure 5.4.1: Mobile View of Home Page

Add Items View

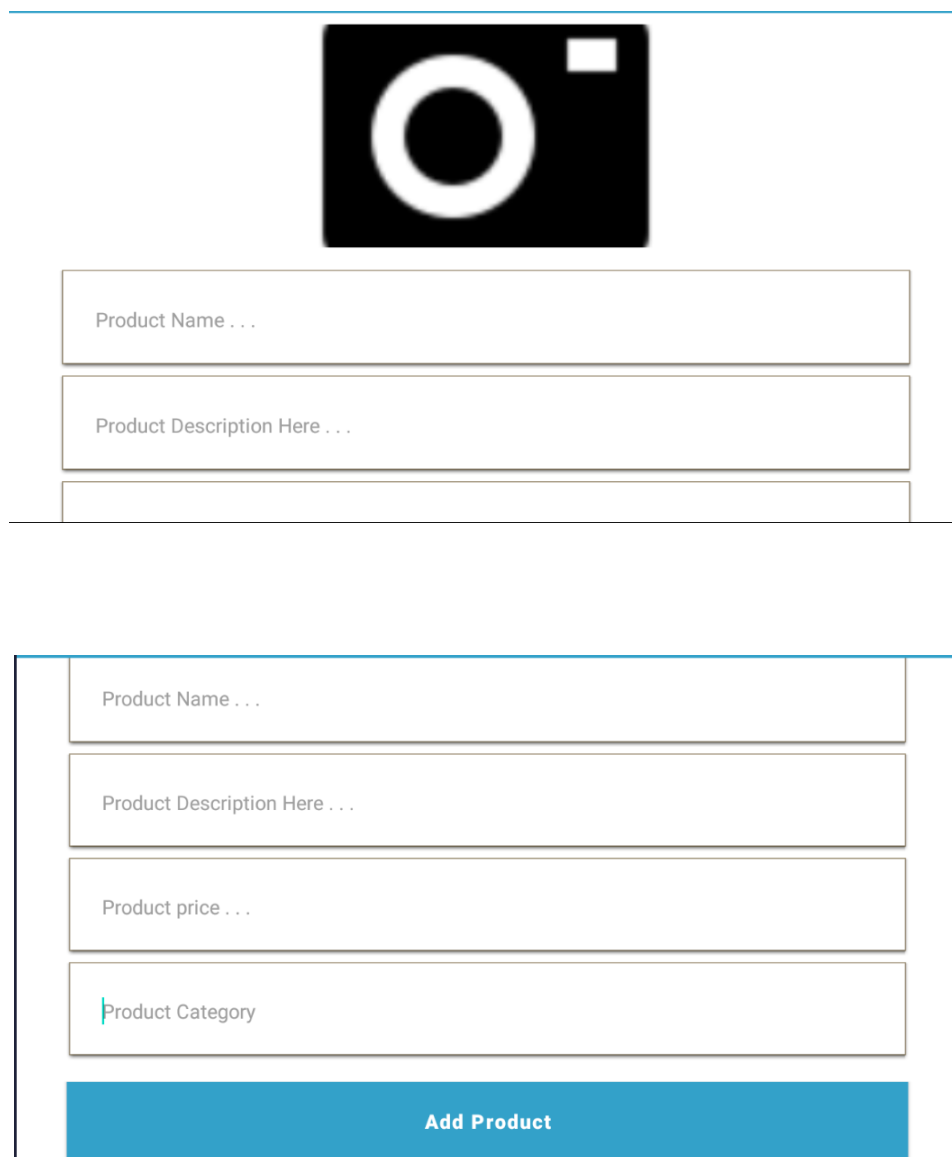
Have three features in Add Items. Here Admin can add products for its sale in any one of the features. This will allow the buyer to view the products on their home page. The following figure 5.4.2 shows the Add Item View.



Figure 5.4.2: Add Item View

Add product details view

Here are all the feature of the product that admin will add. Here Product Photo, Product Name, Product Description, Product price and Product Category is given so that the buyer can see everything while buying his product. And the buyer can purchase the product according to his budget at the time of purchase. The following figure 5.4.3 is given below Add Product Details View.



The image displays a web form for adding product details, divided into two sections. The top section features a large square image placeholder with a camera icon, followed by three input fields: 'Product Name . . .', 'Product Description Here . . .', and an empty field. The bottom section contains four input fields: 'Product Name . . .', 'Product Description Here . . .', 'Product price . . .', and 'Product Category'. Below these fields is a blue button labeled 'Add Product'.

Figure 5.4.3: Add Product Details View

Check Order view

Here the admin can see that the buyer will order the products. If the admin Accepts, the product will be delivered to the buyer. Again, the admin will be able to decline the order if desired. And if the admin decline then the buyer will not get his product. In this case notification will come to the buyer and the buyer will understand that the seller has canceled his order. The following figure 5.4.4 is given below Check Order View.

The screenshot shows a web interface for 'New Orders'. It features a blue header bar with the text 'New Orders'. Below this, a white box contains the following order details:

- Name: **Ragib Muid**
- Phone Number: **01772666487**
- Total Price: **172000**
- Address City: **not shipped ,Dhaka**
- Date and Time: **Mar 07, 2021**

At the bottom of the white box, there are three buttons: 'Show Product' (a large blue button), 'Accept' (a smaller blue button), and 'Decline' (a smaller blue button).

Figure 5.4.4: Check Order View

Chapter 6

Impact on society, Environment and Sustainability

6.1 Impact on Society

Day by day situation will worst in our society, because COVID-19 makes the situation harder. But daily life is going as its own way. People are stack on every one's home; they aren't go outside because corona virus is every where.so in this case the need the grocery item in their daily life. Our application will help them. In the society, people are buy their needed one in this site. that's why they need not to go outside. As well they are mostly safe and sound at their society.

6.2 Impact on Environment

The impact on environment of this project will be good because the project will reduce the customer time, and try to give back them a healthy life as well. For the reason of this, now our environment is not good to us, everywhere people are afraid to do anything, it will so helpful for all.

6.3 Ethical Aspects

In old time people will do what they want, they go out without any hesitation without any mask but in the main time they were safe and sound, but nowadays technology is upgraded, everything will be in hand. Everything will be on your hand with in a short time. The outcome of this project will be so helpful for everyone. The management of this project will very easy to work with it. And that will work in a technological way.

6.4 Sustainability Plan

At the first time it will accept the order then the second step will run as its sequence of work, it can verify then the second process is ready to do. For this reason, the work process is so clean that it works so smoothly and customer are not faced any types of problem to order something. Check after check that's why the system will not stop verifying to send the right thing on the right person, the right customer.

Chapter 7

Conclusion and Future Scope

7.1 Discussion and Conclusion

The android project titled Happy Shopping system was completed successfully. By this app android-based shopping system for an existing shop. Basically, this system has been developed with so much care and error free. Our app is so much efficient and less time consuming.

We learned a lot from this project. We learn how to design an android app and how database work behind the app. How to manage firebase database and many more different features of a project. We try to make our app secure as much as we can.

Basically, online shop has a great future. Thus, customer can shop online and get delivery from their favourite shop by this app.

7.2 Scope for Further Development

There is a lot of scope for further development for our project to a great extent. We think those features will make our application much more attractive. Those features are-

- Online payment system.
- Product delete feature.
- Different offer creates.
- Keep track of history of purchases.
- Set Google map.
- Duration time of a product delivery.
- Develop IOS app.

References:

- [1] Learn about Java Tutorial, available at “ <https://www.javatpoint.com/java-tutorial>”, last accessed on 03-01-2021 at 10:00 PM
- [2] Learn about Java OOP, available at “ https://www.w3schools.com/java/java_oop.asp” last accessed on 17-01-2021 at 9:30 PM
- [3] Learn about Developer Guides, available at “ <https://developer.android.com/guide>” last accessed on 27-01-2021 at 11:00 AM
- [4] Android Tutorial, available at“ <https://www.tutorialspoint.com/android/index.htm>” last accessed on 05-02-2021 at 2:00 PM
- [5] Learn about Firebase Tutorial, available at “<https://www.raywenderlich.com/3-firebase-tutorial-getting-started>” last accessed on 13-02-2021 at 10:00 PM
- [6] Learn about Firebase Documentation, available at “<https://firebase.google.com/docs>” last accessed on 24-02-2021 at 10:00 AM
- [7] Learn about for Creating Flowchart, Diagram & BPM, available at “<https://app.creately.com/diagram/M0230hzRqar/view> ” last accessed on 06-03-2021 at 07:00 PM
- [8] Learn about RGB Colour Codes Chart, available at “ https://www.rapidtables.com/web/color/RGB_Color.html” last accessed on 17-03-2021 at 10:00 PM
- [9] Learn about Oracle JDK, available at “<https://www.oracle.com/index.html>” last accessed on 25-03-2021 at 09:00 AM
- [10] Learn about A Full View of Android Guiding, available at “ <https://www.edureka.co/blog/android-tutorial/>” last accessed 02-04-2021 at 10:00 AM

Plagiarism Report

Android Based "Happy Shopping" E-commerce Site

ORIGINALITY REPORT

12 %	12 %	0 %	7 %
SIMILARITY INDEX	INTERNET SOURCES	PUBLICATIONS	STUDENT PAPERS

PRIMARY SOURCES

1	dspace.daffodilvarsity.edu.bd:8080 Internet Source	6 %
2	Submitted to Daffodil International University Student Paper	3 %
3	Submitted to North South University Student Paper	1 %
4	docplayer.net Internet Source	1 %
5	Submitted to University of Johannesburg Student Paper	1 %
6	www.irjet.net Internet Source	<1 %
7	www.antokia.org.uk Internet Source	<1 %

Exclude quotes On

Exclude matches Off

Exclude bibliography On