

Smart Online Sales System

BY

Pranta Kumar Das

ID: 162-15-7732

Md. Shehabum Mobin

ID: 162-15-7733

Rezwana Tanjid

ID: 162-15-7865

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

Supervised By

Ms. Rubaiya Hafiz

Senior Lecturer

Department of CSE

Daffodil International University

Co-Supervised By

Ms. Nusrat Jahan

Senior Lecturer

Department of CSE

Daffodil International University



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APPROVAL

This Project titled “Smart Online Sales”, submitted by Pranta Kumar Das ID: 162-15-7732, Md. Shehabum Mubin 162-15-7733 and Rezwana Tanjid 162-15-7865 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 in the 8th July 2020.

BOARD OF EXAMINERS



Dr. Syed Akhter Hossain
Professor and Head

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

Chairman



Subhenur Latif
Assistant Professor

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

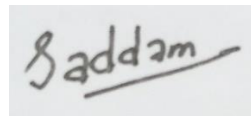
Internal Examiner



Raja Tariqul Hasan Tusher
Senior Lecturer

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

Internal Examiner



Dr. Md. Saddam Hossain
Assistant Professor

Department of Computer Science and Engineering
United International University

External Examiner

DECLARATION

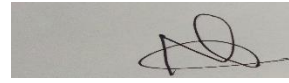
We hereby declare that this project has been done by us under the supervision of Ms. Rubaiya Hafiz, Senior Lecturer, Department of CSE Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for the award of any degree or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

Supervised by:



Ms. Rubaiya Hafiz
Senior Lecturer
Department of CSE
Daffodil International University

Co-supervised by:



Ms. Nusrat Jahan
Senior Lecturer
Department of CSE
Daffodil International University

Submitted by:



Pranta Kumar Das
ID: 162-15-7732
Department of CSE
Daffodil International University



Md. Shehabum Mobin
ID: 162-15-7733
Department of CSE
Daffodil International University



Rezwana Tanjid
ID: 162-15-7865
Department of CSE
Daffodil International University

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ABSTRACT

Nowadays all over the world, people buy products from online sites or apps, and everyday people may have cheated from these. When people buy a product from these sites or app sand if the product has some problem, it is very irritating things for the consumer to replace the product. For this reason, today online marketing ruins day by day. After seeing this we developed an online sale app where consumers will not be fools because that is not a single admin base online shopping app or site. In this app, the customer knows about the real product and price. Consumers also can buy products from their nearest shop. The target of this system is that consumers will not be fools and also those shopkeepers who have small businesses and don't give any advertisement in online sites or apps they can give free advertisement. From this application, both consumer and shopkeepers are equally benefited. We inputted two different types of features in our app, one for shopkeeper another for customer. In the shopkeeper panel, a shopkeeper must register his or her account. Then login with email and password and go to the home page where the shopkeeper posts his/her product with a discount. In the shopkeeper feature, there is an upload option where shopkeepers can upload products with details. After upload product shopkeepers can see his or her product on the home page. Shopkeepers can also see other products advertise in hot offers. In customer feature customer login with email or without email. When the customers come to the home page, he or she can see the latest offer to the product. In the hot offer option, customers can see higher discount products. In the navigation site, customers can see every shop address. In the menu bar customer, can see shop options where customers can see ever shop. If customers like any shop, they can search for the shop and, in this shop, they can see the products. To make an android application we are using Java, XML, etc. After completing the whole execution of the functions, the system is examined by different levels and it's worked successfully as a prototype.

TABLE OF CONTENTS

CONTENS	PAGE
Acknowledgements	iii
Abstract	iv
List of figures	vii
List of Table	viii
CHAPTER	
CHAPTER 1: INTRODUCTION	1-3
1.1 Introduction	1
1.2 Motivation	2
1.3 Objectives	2
1.4 Expected Outcome	3
1.5 Report Layout	3
CHAPTER 2: BACKGROUND	4-7
2.1 Introduction	4
2.2 Related Work	4-5
2.3 Comparative Studies	5
2.4 Scope of the problem	6-7
2.5 Challenges	7

CHAPTER 3: REQUIREMENT SPECIFICATION	8-11
3.1 Business Process Modeling	8
3.2 Requirement Collection and Analysis	9
3.3 Use Case Modeling	10
3.4 Logical Data Model	11
CHAPTER 4: DESIGN SPECIFICATION	12-18
4.1 Front-end-Design	12-13
4.2 Back-end-Design	14-15
4.3 Interaction Design and UX	16-17
4.4 Implementation Requirements	18
CHAPTER 5: IMPLEMENTATION AND TESTING	19-28
5.1 Implementation of Database	19
5.2 Implementation of Front-end Design	20-26
5.3 Implementation of Interaction	27
5.4 Testing Implementation	27
5.5 Test Results and Reports	27-28
CHAPTER 6: CONCLUSION AND FUTURE SCOPE	29
6.1 Discussion and conclusion	29
6.2 Scope for Further Development	29
APPENDIX	30
Appendix A: Project Reflection	30
REFERENCES	31
PLAGIARISM REPORT	32

LIST OF FIGURES

FIGURES	PAGE NO
Figure 3.1.1: Business Process Model	8
Figure 3.3.1: Use Case Model	10
Figure 3.4.1: Logical Data Model (E-R Diagram)	11
Figure 4.2.1: User back-end design	14
Figure 4.2.2: Shopkeeper back-end design	14
Figure 4.3.1: UX design	16
Figure 4.3.1.1: Shopkeeper home page	17
Figure 4.3.1.2: customer homepage	17
Figure 5.1.1: Database Processing System	19
Figure 5.2.1.1: User View	20
Figure 5.2.2.1: Product Category	21
Figure 5.2.3.1: Hot Offer	22
Figure 5.2.4.1: User Profile	23
Figure 5.2.5.1: Shopkeeper Home	24
Figure 5.2.6.1: Shopkeeper Profile	25
Figure 5.2.7.1: Upload Product Information	26
Figure 5.5.1.1: Test Result	28

LIST OF TABLES

Table 4.1.1: Consumer Table	12
Table 4.1.2: Shopkeeper Table	13

CHAPTER 1

INTRODUCTION

1.1 Introduction

Although a few years ago it was quite expensive and unobtainable, but now a day's android phone is available everywhere and we could rarely find anyone who don't use android phone. Our country is a middle-income country and we are developing day by day. Our government tries to digitalize our country. Everything is in a stage of digitalization and shopping is one of them. Now people tend to buy product from online as it saves time and there are many web and android based applications available such as daraz, peekaboo, ajkerdeal. Those apps are admin-based apps, they are selling every kind of product and benefit from it, but our app is designed for common people those who have to sell good products but can't find out a verified place for advertising. Our app like a market a online market so that anyone can set there shop in the market without any cost.in this app customer search product with the name after that the costumer can show the offer of the particular product. In this if anyone want to find any product they can find with discount and they also want to find area wise product. After seeing product customer can buy product from any shop from any other location. In our app we add a category name shop where people can find out there most likeable shop and know every discount about that shop from this function consumer can easily find out likeable product their likeable shop. This application system we built for the reason that people get good things and also know about any product amount in this market so that they can buy good product in most low-cost budget.

1.2 Motivation

In this internet world it is very easy to know about new things what we don't know. Today's life is internet base people don't think anything without internet. We are doing every work in our daily bases we need internet. Today in our country most them people use internet to buy their product and there are many app for marketing but most of them are not too much quality full but our app motive to give people faithfulness about online shopping. In our app, when people enter, they can find out most hot deals about every product but it's made different from other app people find out these products in their nearest zone where they can buy it if any fault, they can change it. People also know about unique what they want to buy but not find out. if they like any shop they can search the shop name and they can view in that particular what they give offer and which item are new in there shop our motive to build this app is when we buy anything from any others app such as Ajker deal, Bagdoom in this app there very lengthy process for anyone to buy and if they any fault item it's very much lengthy for we face those problem so that we think to build app where people will not be fooled they can easily find any product also discount.

1.2 Objective

The Objective of built this application is to make customer and providers works really easy and user friendly. To make android base app system where customer know about different product discount offer. Consumer are highly benefited because of our app interface it's interacts with shopkeeper and chose likeable pieces of product. this app very much shopkeeper friendly so that they don't spend their single penny for give advertise their product in this app. Using this app both customer and seller both are benefited easily because of this app function its function is so much user friendly. In this app people only can see the product name, product value and product area where they get the product.

1.4 Expected Outcome

- Customer get best product in few times.
- Increase sales rate of business.
- Customer can find out their likeable shop.
- Customer can find out the shop location.
- Customer can see where and which product give sale.

1.5 Report Layout

The total project is included six chapters. In the report, the layout is summarized that five chapters. Summarization of the layout is given below.

In chapter one we give the introduction and slide overview about Smart Online Sales System and give motivation, objective, expected outcome about the project. In Chapter two we discussing about project background study which is fill up related works of the Data analysis and discussion of the problem and challenges of the system. In chapter three we discussed about Requirement collection and analysis, use case diagram, Entity Relationship diagram, business process model. In chapter four on design specification about our proposal by the flow-chart diagram, discusses about with both front-end and back-end design with practical details. In chapter five we will discuss about full project implementation and testing. In chapter six the conclusion, limitation and future scope or possible development of our project are discussed.

CHAPTER 2

BACKGROUND STUDY

2.1 Introduction:

People can choose their best product easily by our app. people also can buy their product what they want to buy in their convenience area or zone. Our app can easily access by shopkeeper and customer because our app interface is so much people friendly. People who do not know English so much, they can also use this app very easily because our app language is Bangla.

2.2 Related Work:

When we decided to build this android application, firstly we search in online and did not find any apps like ours but there are some related apps on google playstore and other website such as AjkerDeal, Pickaboo, Bagdoom Online, Othoba.com etc. Our app is not totally separated from this apps/website. From our apps people can directly buy a product from a shop which shop is advertise the product.

We have given some app details below. Those apps some feature is related to our app.

2.2.1 Pickaboo

Picaboo.com is also an online selling app but they sell most of electronics things and perfume. they didn't mention the shop name because they sell those products. They don't promote any shop.

2.2.2 Othoba.com

Othoba.com is also an online selling app. these also give offer like us they also give all product information like us.

2.2.3 Ajkerdeal

Ajkerdeal is also a popular app in Bangladesh they are also reputed online selling app. They give every product information very nicely and they also give proper sell price. In our app we give top offer product in top of our app home page these also give it.

2.3 Comparative Studies

We studied and search in google play store for similar android app features like us. There are some apps in play store which are quite similar like ours. Customer cannot buy products directly from it like Pickaboo, Bagdoom or Othoba etc. Customer can know about the products information and also, they can buy product from that particular shop from our apps and can see the nearest shop location. Our apps will be very helpful for new businessman/shopkeeper because they can advertise their institute easily. Now a days the online seller cheated the customer, they advertise a product so nicely, that to see the product customer want to buy the product from the online shop but when they buy the and after 2 or 3 days they received the product it's not same as what they saw in the online. When they want to change the product it's very lengthy process, for this reason customer harassed by the online seller, but in our app there are no chance to deceives because in our app customer view the products and those particular product which they want to buy they can buy from any particular shop and also if the product have problem they can change easily it's a faithful online app for the customer. In our app if customer want buy any product in their nearest shopping mall or shop, they can buy the particular product our app suggests the product in their nearest shopping mall or shop. Cu To use our app shopkeepers are benefited because they advertise their product an online platform free of cost.

Our app is so much user friendly both for shopkeepers and customer. We made this app for our shopkeepers' brothers and sister; they can easily sell their product in an online app and also us for common people those are cheated by the online seller.

2.4 Scope of the problem

it's a new online app where shopkeeper and customer feature are sitting by sit. In our app shopkeeper advertise the product with new way.

2.4.1 An App for Both Customer and Shopkeeper

This app is design for purpose of selling product in a verified way where both customer and shopkeeper are benefited. It's very important to make the user interface very easy so that both customer and the shopkeeper access the app very simply and efficiently.

2.4.2 Business Analysis

This app is mainly built for the business on online platform. By using this app, a shopkeeper will be benefited because he/she can sell products on online platform besides a shopkeeper can easily advertise his/her institution.

2.4.3 Time Saving

Time is very important for all of us. This app saves our time and money also. Customer can buy product from shop so that the customer takes the product which one he/she chooses. Customer do not need to change or replace the product.

2.4.4 Helping Hand

It's very useful helping hand for both customer and shopkeeper. Shopkeeper just post their product, product offer and address location in this app and customer see what they want to buy and also buy product from nearest location of the shop or shopping mall. It's very faithful via for customer.

2.5 Challenges

This selling application is not like other selling application if properly set shopkeeper advertise and offer, shop location, nearest shop location properly so it's very friendly for both shopkeeper and customer.

CHAPTER 3

REQUIREMENT SPECIFICATIONS

3.1 Business Process Modeling

Business Process Model shows the utility of the project. In our project, most of the component shows discount product, latest offer, product deadline, shop location and some other properties. The Business Process Model is given below.

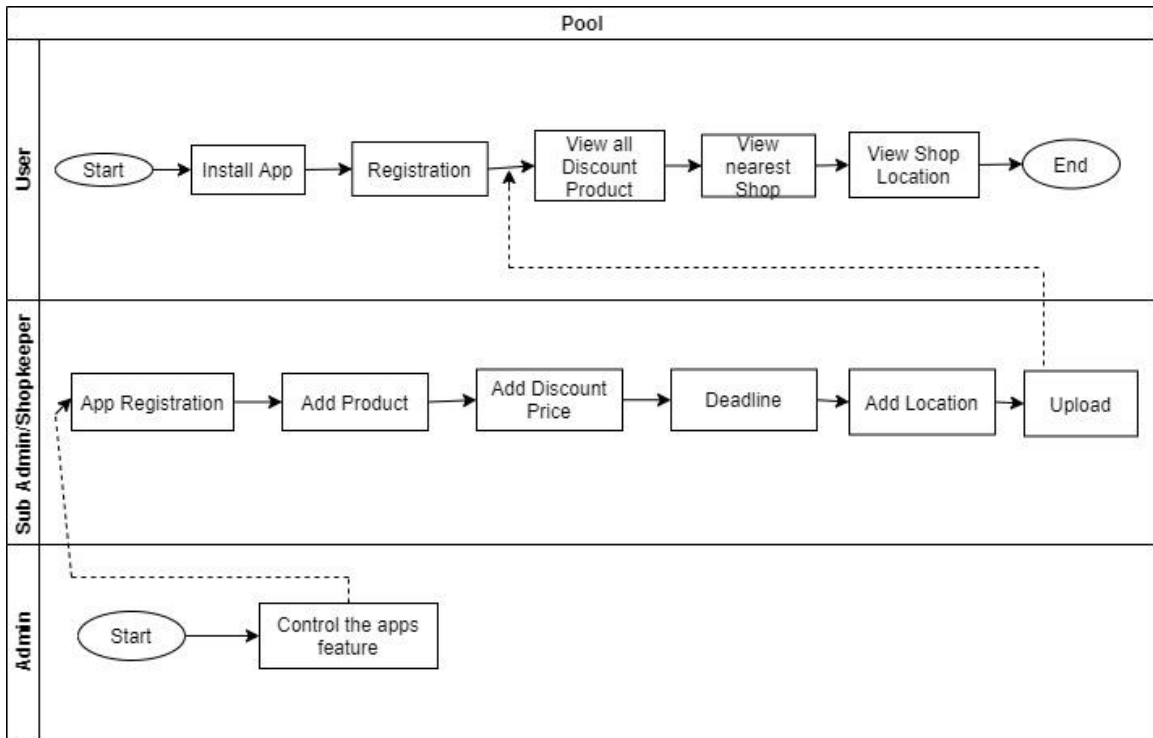


Figure 3.1.1: Business Process Model

3.2 Requirement collection and analysis

Requirements of the software:

- Make the procedure easy for consumer.
- More user friendly for the customer.
- Keep updated with product discount.
- Show actual place of the store.
- Find the route of the store.

3.2.1 Hardware and Software Requirements of Our System

Firstly, you must need to look after the minimum requirement of hardware and software to run this application. There are few software requirements also hardware for run this app nicely and efficiently.

In the development phase, the system requires for all equipment and structures describe to increase the new system like

- Android Studio Software
- Android phone

In the system, the shopkeeper will be daily update the products and check continuously.

3.2.2 Analysis

After figuring out the project concept, we have the self-belief to increase this site absolutely. There is a self-belief to do this work as a new process. We were research lot of the intently related apps and we determined to do that Java in backend and XML at the frontend.

We determined to do backend with Java because Java is popular server site scripting language for developing an online app. Java has solidified a popularity as a strong programming language for the backend.

3.3 Use Case Modeling

The Use Case model that we have used in our project is given below.

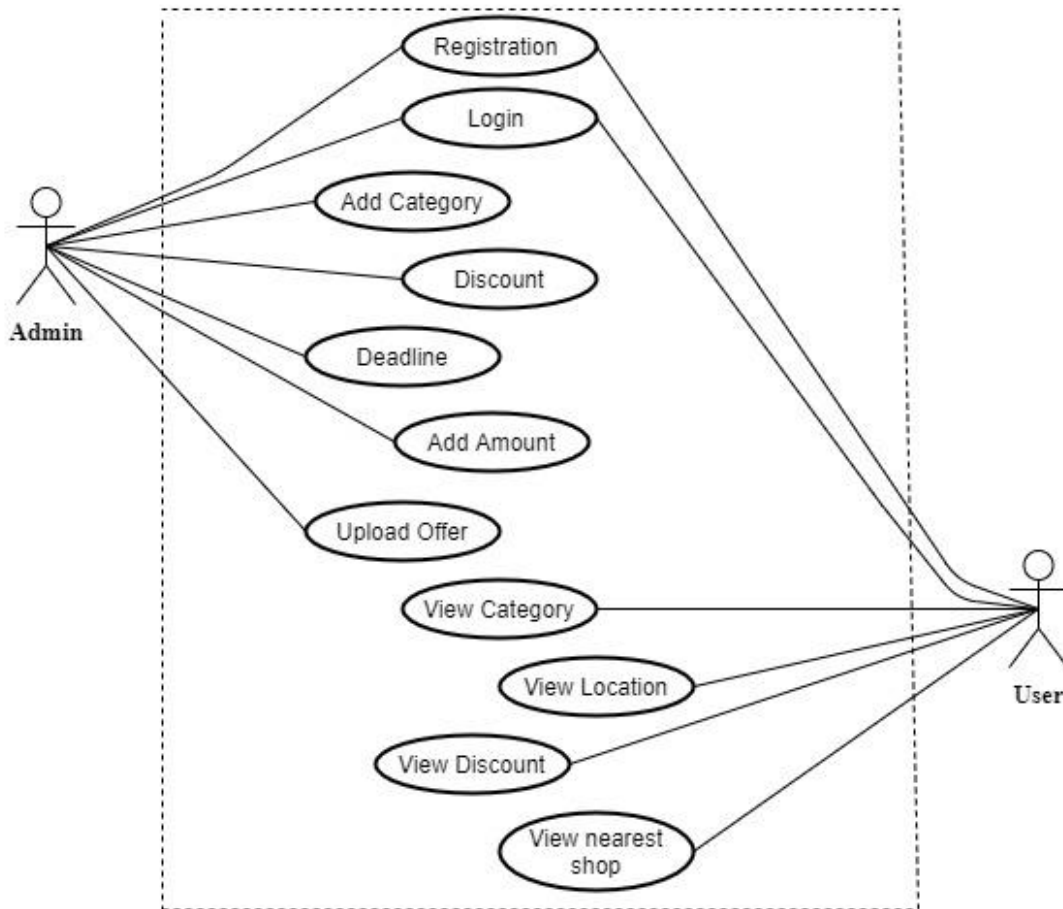


Figure 3.3.1: Use Case Model

3.4 Logical Data Model

Logical Data modeling is a method used to outline and analyses requirement needed to help the business methods within the scope of corresponding data systems in companies. The Entity-Relationship model is a logical data model, it involves the entity, attributes and relationships.

There are three main elements of an Entity Relationship diagram. These are Entities, which are objects that can store data, the Relationship between the Entities, and the cardinality, which defines that relationship in terms of numbers. The Entity Relationship diagram that we used in our project is given below.

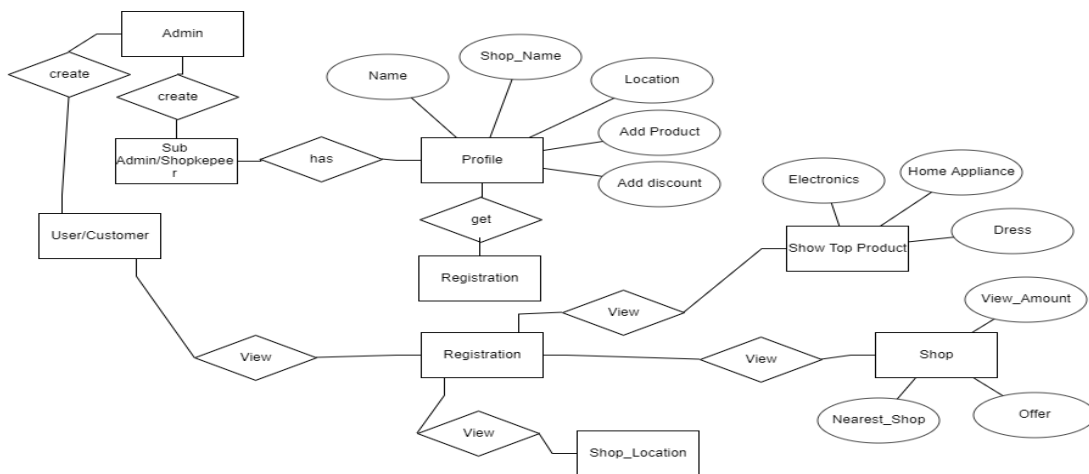


Figure 3.4.1: Logical Data Model (E-R Diagram)

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-End Design

Front-end design is for user it's called user interface design. Create basic XML and Java presentation code that compiles the user interface. This design plays an important role for every application. When designing applications, we must consider the usefulness and user friendliness of each application. The design needs to be simple, easy and user friendly. The frontend design must be simple and easy to understand for anyone who visits the application. For the design purpose we use raw coding in addition using any template or something else. The application design is seen as long as XML and Java are running at the same time, because this is controlled by each of our Android phones.

Table 1: Consumer Table

List	Description
Home	In home, customer can find out latest offer of any product.
Category	In this feature, customer can find out any product with their specify category.
Navigation	In this feature, customer can know every shop location or if he needs any particular shop location.
Hot Offer	In this feature, customer can find out most discount base product.
Profile	In this feature, customer can upload their image, can edit their profile.

Table: 4.1.1

Table 2: Shopkeeper Table

List	Description
Home	In this feature, shopkeeper only see their product discount.
Add Product	In this feature, shopkeeper can add product image, real price and percentage of discount then percentage value.
Hot Offer	In this feature, shopkeeper also can see all discount product together.

Table: 4.1.2

4.1.2 SDK

A software development kit (SDK or Devkit) usually consists of a group of software development tools that you just can use to create applications for specific software packages, software frameworks, hardware platforms, computer systems, computer game consoles, operating systems, or similar development platform. to complement sophisticated applications, advertisements, push notifications, and more, most application developers use special software development kits. Some SDKs are important for developing platform specific applications.[2]

4.1.3 Java

Java is a universal computer programming language developed in parallel, class-based, object-oriented, and specifically developed to minimize implementation dependency. Application developers must "write once, run anywhere" (WORA). This means that compiled Java code can run on all platforms that support Java without the need to recompile.[3]

4.1.4 SQLite

Writing and saving data to a database is ideal for repetitive or structured data such as contact information. This page assumes that you are familiar with SQL databases in general and helps you get started with the Android SQLite database. The API that you need to use the Android database is available in the android, database, SQLite package.[4]

4.2 Back-end Design

Making mobile application development is not possible without choosing the right backend design. In back-end design we have to think API, backend architecture, and quality control.

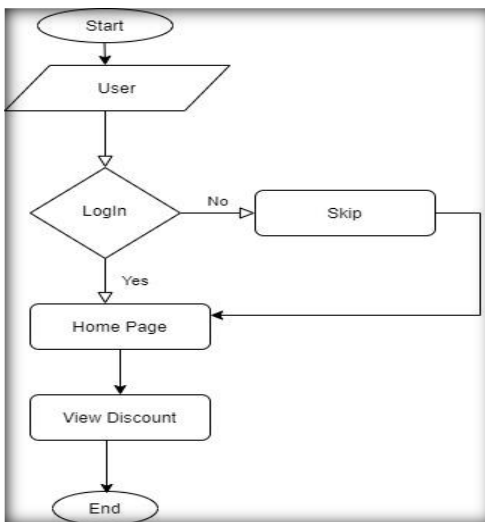


Fig 4.2.1: user back-end design

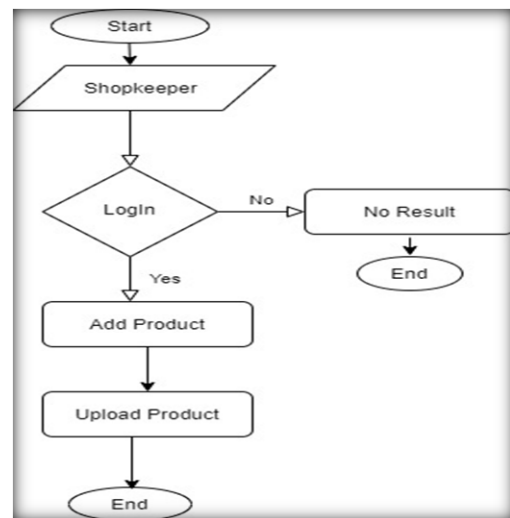


Fig 4.2.2: shopkeeper back-end

4.2.1 Object Oriented Java

OOP is a programming model based on the idea of "objects", which may contain data, in the form of fields, often known as attributes; and code, in the form of procedures, often known as methods. A feature of objects is that an object's procedures can access and often modify the data fields of the object with which they are associated (objects have a notion of "this" or "self"). In OOP, computer programs are designed by making them out of objects that interact with one another. There is significant diversity of OOP languages, but the most popular ones are class-based, meaning that objects are instances of classes, which typically also determine their type.

Many of the most commonly used programming languages (such as C++, Object Pascal, Java, Python etc.) are many example programming languages that support object-oriented programming to a greater or lesser degree, typically in combination with imperative, procedural programming. Significant object-oriented languages include Java, C++, C#, Python, PHP, JavaScript, Ruby, Perl, Object Pascal, Objective-C, Dart, Swift, Scala, Common Lisp, and Smalltalk.

4.2.2 Google Map API

The Google Maps Platform is an API and SDK package that developers can use to embed Google Maps in mobile applications and websites, or to extract data from Google Maps. There are a few suggestions. Depending on your needs, you can use one or a combination of this API and SDK: JavaScript API.[5]

4.2.3 Place API

Places API is a service that uses HTTP requests to return information about a place. Places are defined in this API as points of interest, geographical locations, or landmarks.

4.3 Interaction Design and UX

User Interface Design (UI) is the process of creating interfaces in software or computing devices with a focus on appearance or style. Designers want to make designs that are user friendly and entertaining for users. User interface design usually refers to a graphical user interface, but also includes others, e.g. B. voice control. Consumer Experience Design is the process of increasing user satisfaction with a product by increasing the usability, accessibility, and pleasure of interacting with the product. This is the most important part of any application to provide a user experience. [1]

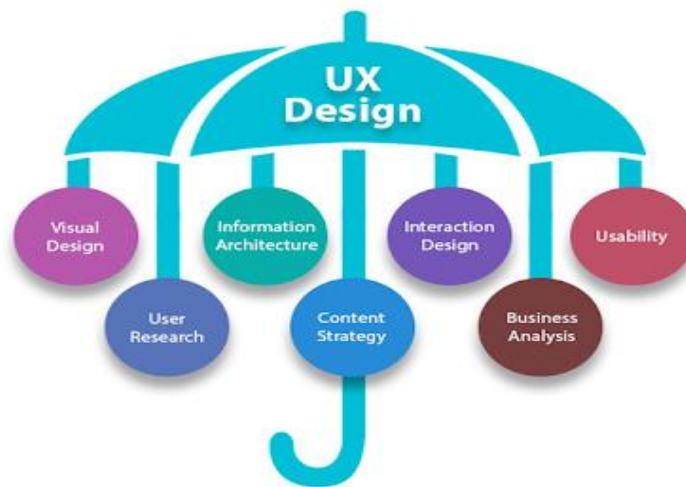


Figure 4.3.1: UX design

4.3.1 Home Page Interaction Design and UX

In our application, we have made a homepage. Our application has two home one for consumer where consumer can see all offer and another for shopkeeper where shopkeeper can give their own product and only see their own product Homepage is designed with the Java and XML.

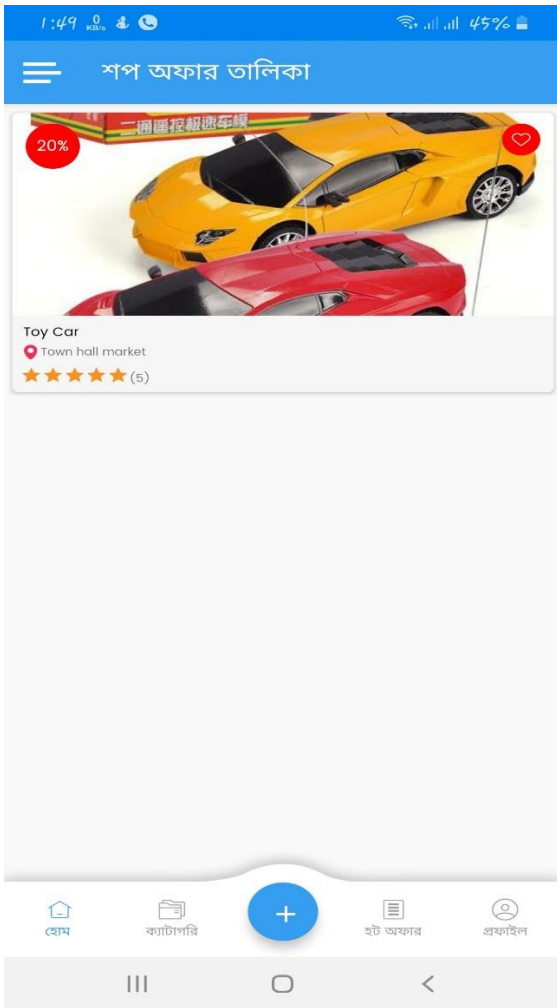


Fig 4.3.1.1: shopkeeper home page

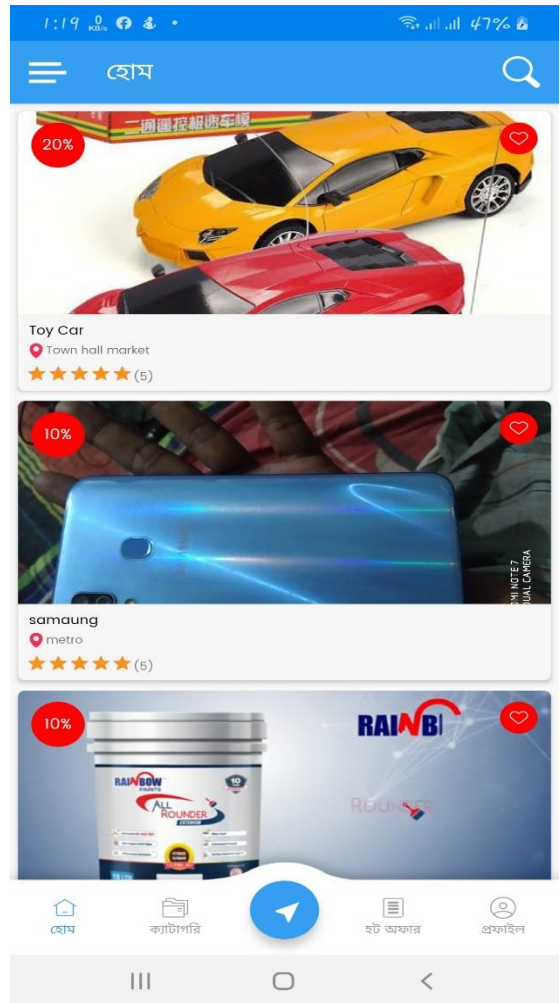


Fig 4.3.1.2: customer homepage

4.4 Implementation Requirements

Implementation means working through planning and designing applications as intended. The application that appeared in our mind first make it evident picture to everyone as we planned. As such implementation is the motion that ought to observe any preliminary wondering so as for something to genuinely show up. The major concept became for our implantation is to make the site less complicated for each person. The implementation Requirements was given us as a very conceptual idea. To fulfil this project. We need Photoshop to design logo or UI/UX. To implement other things, we need Android Studio to do XML and Java.

Software requirements for our application

- Operating System Windows (XP or Higher).
- Android Studio.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

We are working with SQLite to apply the database of this site. Database control handles the records this is had to store, retrieve information. This involves various frameworks.

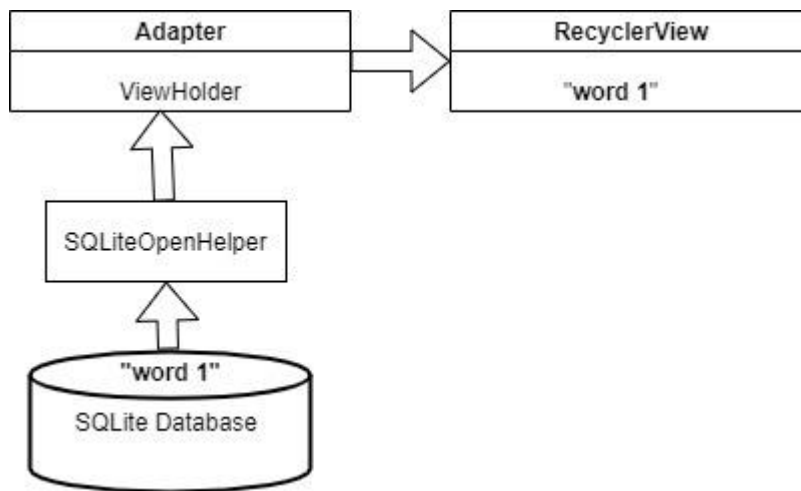


Figure 5.1.1: Database Processing System

The above figure will deliver an idea about how the database processing framework works for any action about database.

From the above scenario, we can perceive that how we've stored the consumer's data in whenever they create their account. Above, on every moment we generate a token is saved inside the producing token database we build in.

We are also used MySQL for our online database where the online information is stored. MySQL is an open source relational database management system.

5.2 Implementation of Front-end Design

We are written down the XML for the design basic User Inter Face that's visible for consumer and make an attraction. Our design is quite simple and easy to understand for our country people. We use Bengali and English both language for our apps interface. During layout element we want to tough working and always maintain in thoughts the clarity and easy to understandable. It takes hard work to be victorious in visible interface.

5.2.1 User View

During user they will first observe the choice and beyond this option has lot of things. The option is Home, Category, Map, Hot offer, Profile, Search option. At first the user needs to register and then need to login in this app. The user also can view the home page by clicking skip button.

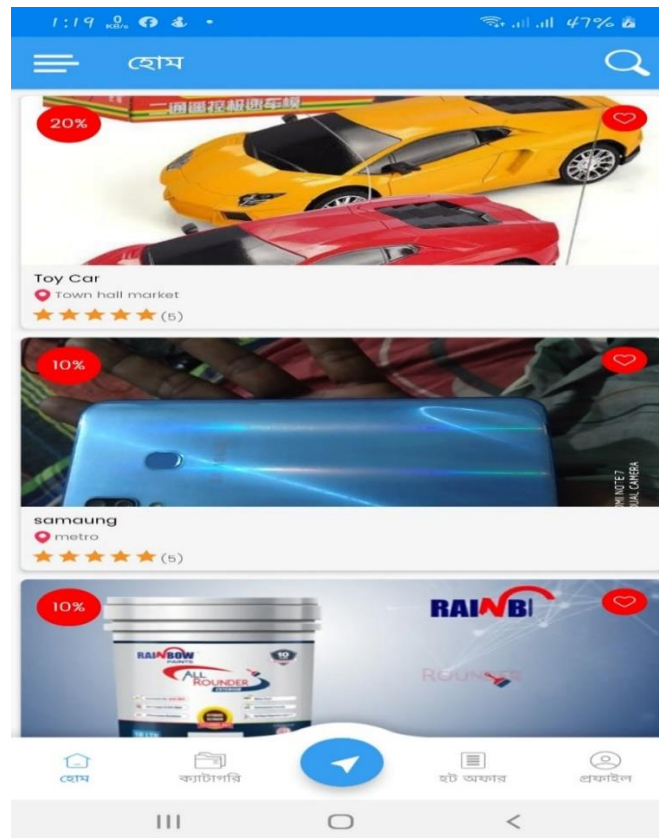


Figure 5.2.1.1: User View

5.2.2 Product Category

In this option user can view the product category list. If the user wants to see a product by its category then he can do it here. User can explore product by its category. It saves the users time. He/she can get products faster here.

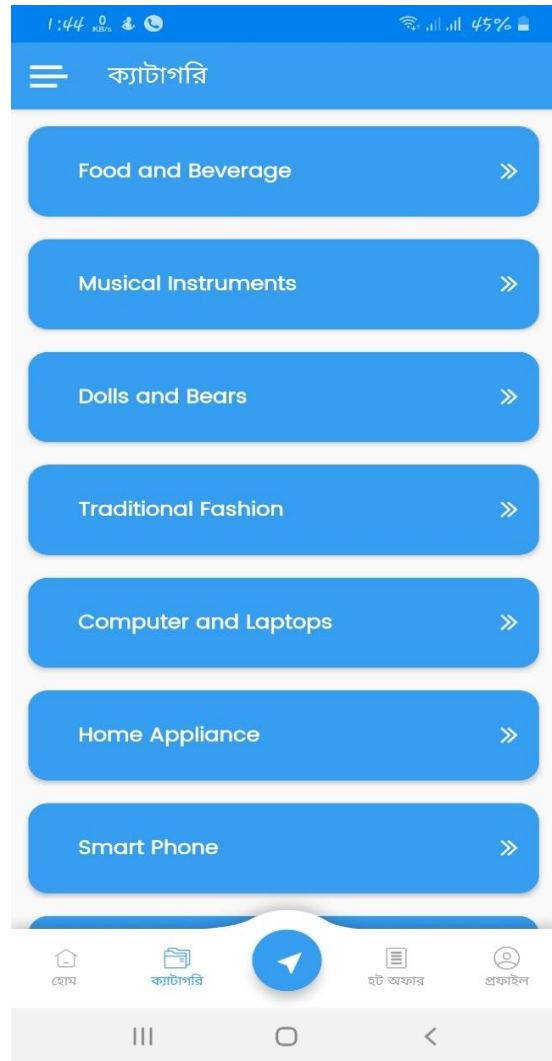


Figure 5.2.2.1: Product Category

5.2.3 Hot Offer

In this option user get the hot offers products. Here the consumer gets the top offer products first and then the less offer products will come serially one after one. This option will be very helpful for the user because here they get the top offer products very easily and faster way.

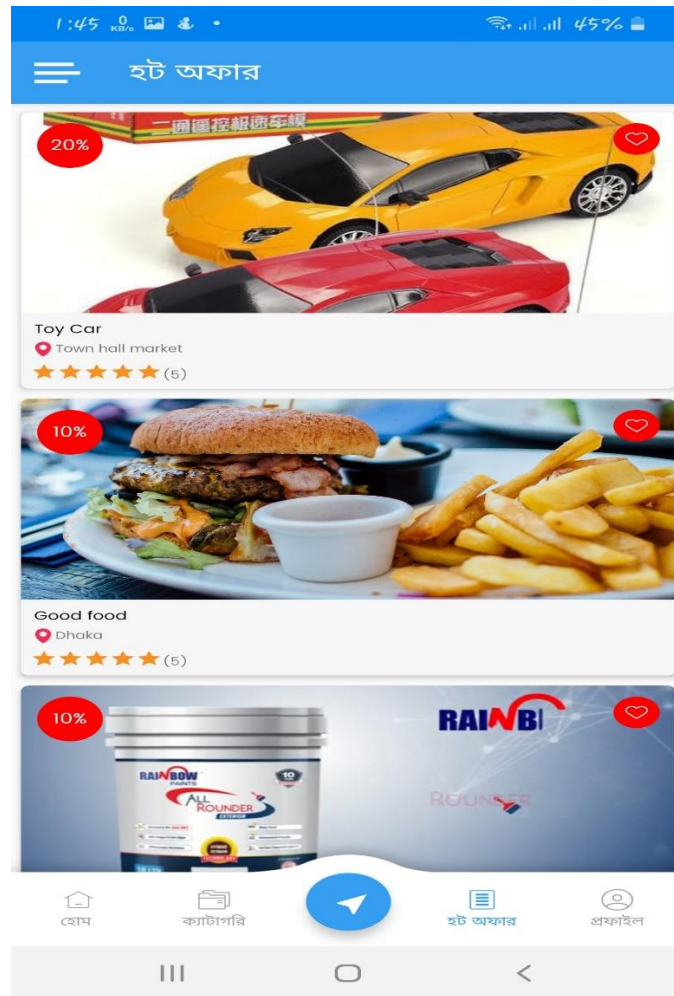


Figure 5.2.3.1: Hot Offer

5.2.4 User Profile

Profile is not mandatory for the user. They can view all the discounts without registration. If the user creates his/her account then it will be helpful for his/her to get more secure and he/she will enjoy the all features. User can also edit his/her profile.

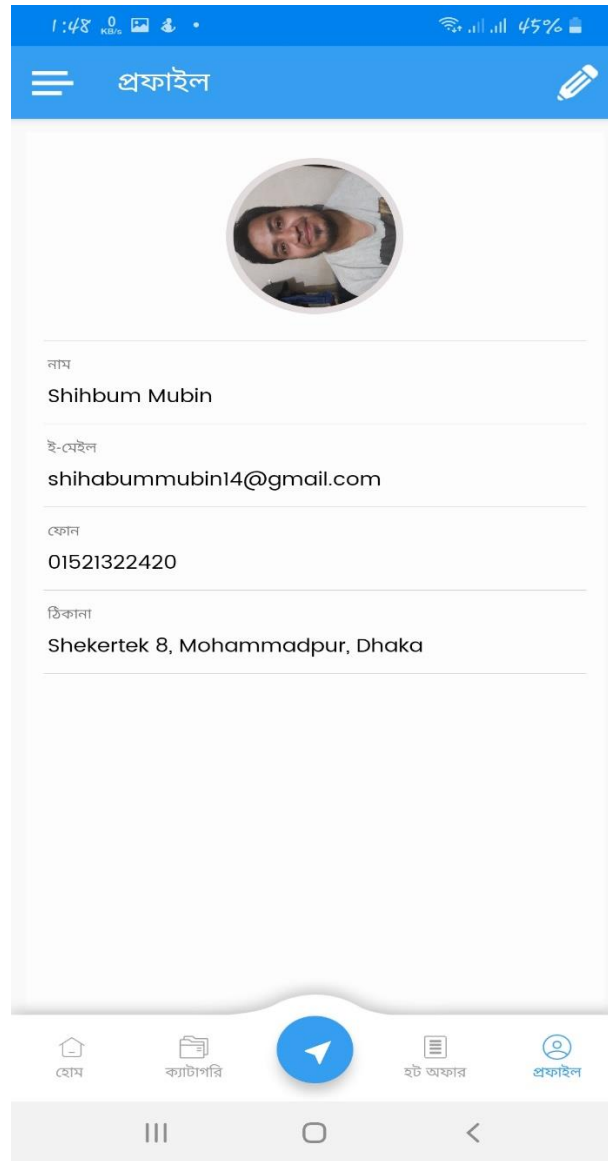


Figure 5.2.4.1: User Profile

5.2.5 Shopkeeper Home

This home page is only for the shopkeeper. Here only the shopkeeper can see the products which they are uploads. It will help them to find which type of products they have been uploaded here. The shopkeeper must be needed to registration first and then login for this apps. Then the shopkeepers are able to upload their products in the platform.

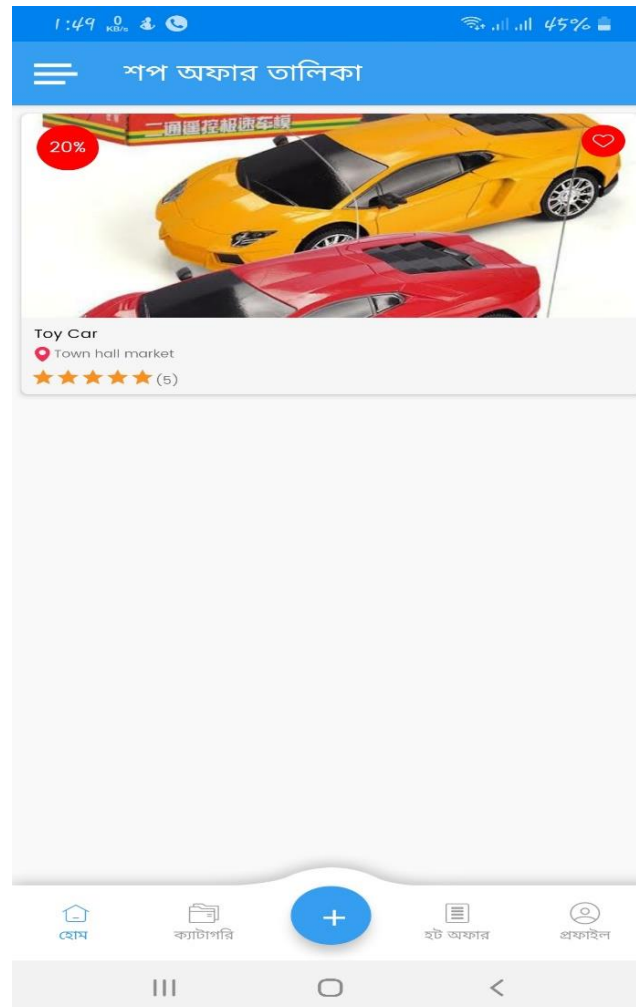


Figure 5.2.5.1: Shopkeeper Home

5.2.6 Shopkeeper Profile

In this app it is mandatory to create a shopkeeper account. The shopkeeper firstly needs to registration. When the shopkeeper registered, he/she give the shop location and other necessary information. This information will be helpful for the user to find the shop. The user can easily identify the shop by using the shop location and the shopkeeper image. The shopkeeper can also edit his profile.

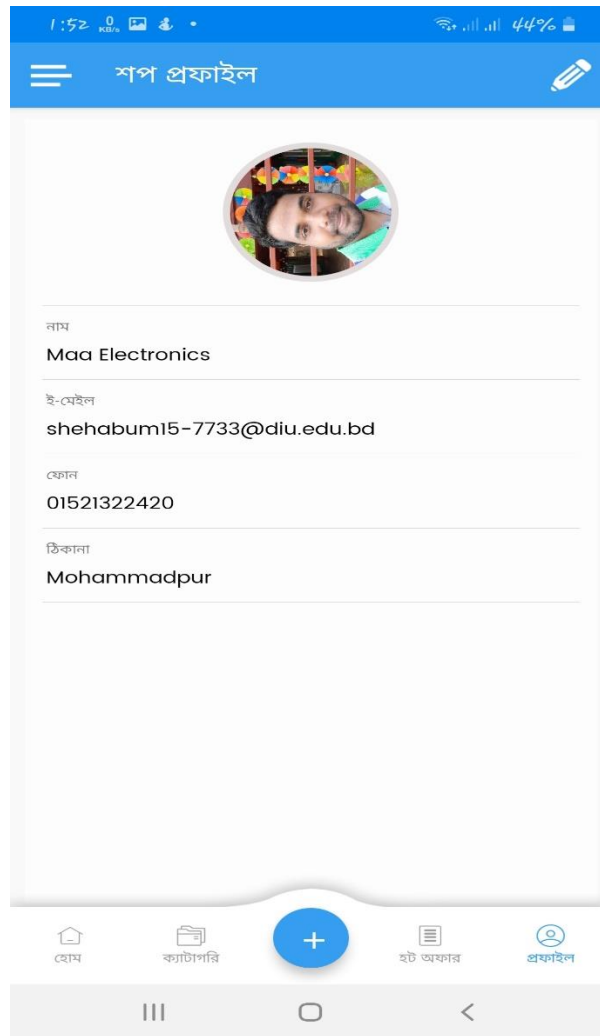


Figure 5.2.6.1: Shopkeeper Profile

5.2.7 Upload Product Information

Shopkeeper firstly click the plus (+) button for uploading products. Then he/she will fill-up the necessary information like Products name, Products description, Price, Discount, Discount percentage, category and the product image. After completing all the necessary fields, the shopkeeper posts the product in the app

The screenshot shows a mobile application interface for posting an offer. At the top, there is a blue header with a back arrow and the text 'অফার পোস্ট করুন'. Below the header, there is a form with several input fields: 'ছবি' (Image) with a red camera icon, 'প্রোডাক্টের নাম' (Product Name), 'প্রোডাক্ট বিবরণ' (Product Description), 'ক্যাটাগরি' (Category) with a dropdown menu showing 'Musical Instruments', 'বর্তমান দাম' (Current Price), 'অফার দাম' (Offer Price), and 'অফার %' (Offer %). At the bottom of the form, there is a blue button labeled 'পোস্ট করুন' (Post). The bottom of the screen shows the standard Android navigation bar with three icons: a square, a circle, and a triangle.

Figure 5.2.7.1: Upload Product Information

5.3 Implementation of Interactions

In implementation, interaction is one of the parts of our application. Interaction involves when we are on a particular page of an app that takes us another page that we need to move each time. It occurs while all of the pages are interlinked with each other. There are so many elements move into the layout of an app. An entire app is the best viable medium to reach a buyer from anywhere from the arena. It is alongside those strains fundamental; it have to be arranged such that buyers want to be pulled in and be secured in at the app. In this point where a site can realize its buyers appropriately. That factor is app interconnected.

When we surely illustration for execution that involves, we're running at the app. At the point while the consumer movements the mouse trap on home board that slides on a lane that become the one of our interplay utilizations for our gadget.

5.4 Testing Implementation

The functions we introduced on our app while we executed those and perform those implemented operations are the testing of applied functions. We introduced our thought properties and also trial them as a user or shopkeeper or as an admin in our apps. We test all viable obligations as a user or shopkeeper or an admin such as login, registration, view discount, add product, upload location and so on. The result of accepting trying out is right enough to what we desired from the app. It holds the accepting testing result as what we precisely needed.

5.5 Test Results and Reports

5.5.1 System Testing:

The testing result of our apps is given below:

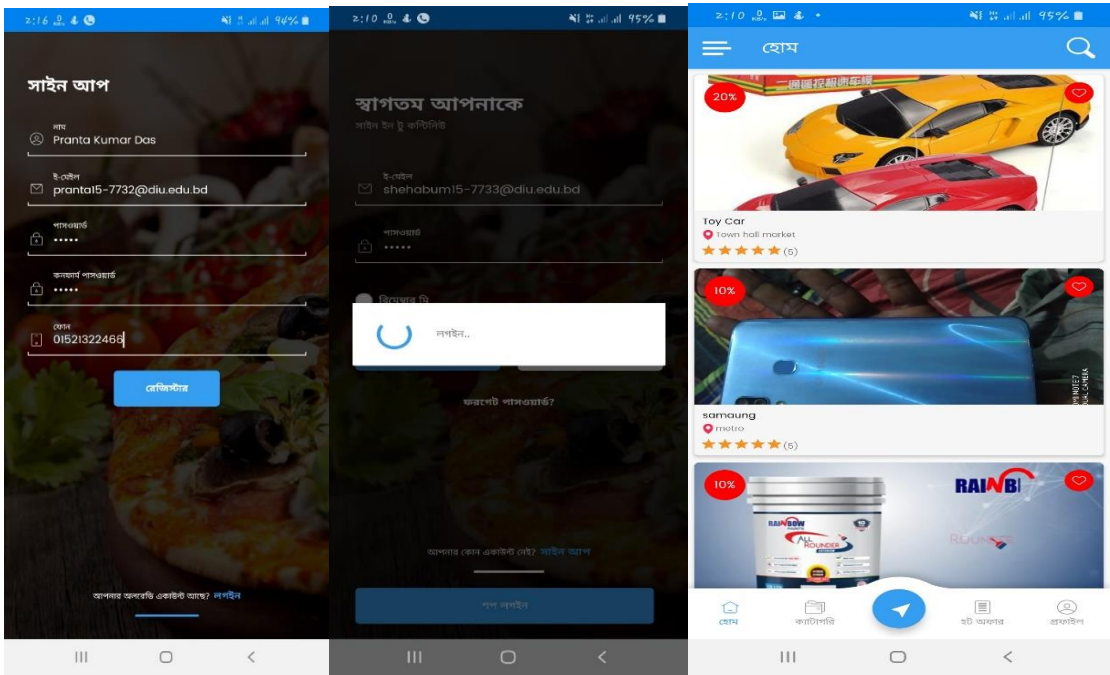
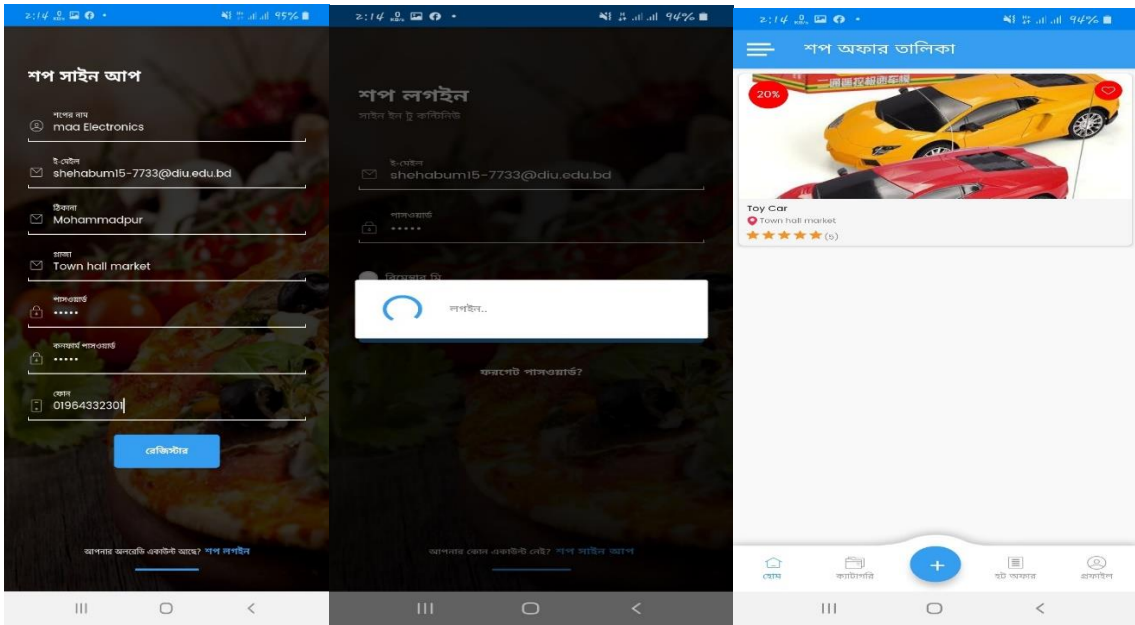


Figure 5.5.1.1: Test Result

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

We build a very efficient and simple application for common people. We check that this system performs realistically well for consumer and also for shopkeepers. This application system is very give accurate location and we try to build this system so user friendly so that people not face problem for product choosing product discount time when the product discount date over automatically this product will remove we check this system that this function work nicely not only this every function work nicely. When people use and get benefited from this system after that we feel good, we make a good application for this society.

After using this application now only our country people will be benefited but if we design this application for whole so that other country people will be benefited. Our challenges are to increase the accuracy of system performance and also convert it into web platform.

6.2 Scope for Further Developments

We may want to have carried out some more work; we need to maintain with it.

- Convert it into Web platform.
- Give more security in future.
- Add more interesting features.
- Increased the accuracy of system performance.

APPENDIX

Appendix A: Project Reflection

This appendix sketches the total project reflection. We have become a little time for running with every other project but in this project, we got lots of time to accomplish that particular. We assume plenty about this task, this thought wants more time to build this concept. It's a unique idea which acquired a few new and interesting functions. We complementing and helping every other from the starting of the work and continued the equal work until the finish of the project.

That was an exceptional experience for the group members. It became an exceptional level in work in a group like this. The team work enables us to learn so many matters that train us the way to divide the work in a group to accumulate an entire task or work. We get together on meeting mentioned about the task sitting collectively and also talk about new ideas of all of us to make this aspect higher.

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