An Industrial Report

On

Emart E-commerce

DIPLOMA BRANCH

In

Computer Branch

By

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(20SDSCE01133)

RK.UNIVERSITY

DIPLOMA IN COMPUTER ENGINEERING

RK UNIVERSITY

BHAVNAGAR ROAD, RAJKOT

APRIL 2023

RK.UNIVERSITY

SCHOOL OF DIPLOMA STUDIES RK.UNIVERSITY

CERTIFICATE

This is to certify that the work which is being presented in the Project Report entitled "**Emart app ui in flutter**", in partial fulfillment of the requirements for the award of the Diploma Engineering and submitted to the School of Diploma studies, RK University, is an authentic record of my own work carried out during a period from December 2022 to April 2023.

The matter presented in this Project Report has not been submitted by us for the award of any other degree elsewhere.

Name of Students:	**Enrollment No.:**
Hiten Vaghjiyani	**20SDSCE01133**

This is to certify that the above statement made by the **student/students is/are** correct to the best of my knowledge.

Internal Guide:	**External Guide:**	**Head of Department:**
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Computer Engg.	WRTeam	Computer Engg.
SDS, RK University	Your Work Partner	SDS, RK University

April 2023

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COMPANY CERTIFICATE

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Date: 9/4/2023

TO WHOMESOEVER IT MAY CONCERN

This is to clarify that **Mr. Hiten Vaghjiyani** who is student of R. K. University has done his internship in our Company from **5th Dec 2022 to 8th April 2022**. He has worked on a project titled **'E – Commerce App'** in Flutter.

During the internship he demonstrated good design skills with a self-motivated attitude to learn new things. His performance exceeded expectations and was able to complete the project successfully on time.

Sincerely,

WRTeam
Proprietor

Harish Vekariya

ACKNOWLEDGEMENTS

I am deeply grateful to express my sincere appreciation to all the individuals who have contributed to my growth and development during my academic journey.

I would like to extend my heartfelt gratitude to Dr. Amit Lathigara, Director and Dean of the Faculty of Technology at R. K. University, for his meticulous planning of the academic curriculum. His efforts have helped me gain not only academic knowledge but also practical skills in the form of industrial training.

I would also like to express my sincere thanks to our Head of Department, Prof. Ravindra Dangar, and my Internal Guide, Prof. Nisha Kukadiya, for their invaluable advice, guidance, and moral support throughout my project. Their unwavering encouragement has played a crucial role in shaping my research work.

Furthermore, I would like to acknowledge and extend my heartfelt gratitude to **Mr. Harish Vekariya** (Flutter Developer) , for his continuous support and encouragement throughout my project. His **support and help/guidance and advice** have been instrumental in helping me achieve my goals.

Once again, I would like to express my sincere appreciation to all those who have supported me in this journey, and I hope to make the best use of the knowledge and skills I have gained.

HITEN VAGHJIYANI

Abstract

An E-commerce shopping app is a mobile application that allows users to purchase products and services directly from their smartphones or tablets. The app typically includes features such as a catalog of products, shopping cart, payment processing, and order tracking. Users can browse and search for products, view product details, add items to their cart, and complete their purchase using various payment options.

Table of Contents

List of Tables

List of Figures

Chapter - 1
Introduction

1.1 Project Summary

An ecommerce shopping project is a digital platform that allows businesses to sell their products and services online. The project typically includes the development of a website or mobile application that allows customers to browse and purchase products, as well as a back-end system for managing inventory, processing orders, and handling payments. The project may also include features such as personalized recommendations, wishlists, customer reviews, and order tracking.

The project team may consist of web developers, designers, project managers, and QA testers. The goal of the project is to provide a convenient and seamless shopping experience for customers and to increase sales for the business. The project will involve research and analysis of the target market, competitor analysis, and design and development of the platform to meet the needs of the customers and the business

Ecommerce shopping refers to the buying and selling of products and services online. It allows businesses to expand their reach and customers to shop from the comfort of their own homes. Ecommerce shopping can be done through a website or mobile application, and typically includes features such as product catalogs, shopping carts, payment processing, and order tracking. It also includes features such as personalized recommendations, wishlists, and customer reviews. The goal of ecommerce shopping is to provide customers with a convenient and seamless shopping experience while also increasing sales for businesses

1.2 Aim and Objective:

- It will be easy to use and people can find there product very easily
- The app will allow customers to easily navigate through the product catalog, view product details, and make secure payments.
- The overall goal is to increase sales and customer satisfaction by making the online shopping process as seamless and efficient as possible.

Aim & Objective (1.2)

1.3 Uses of App

- Online shopping:Customers can browse and purchase products and services through the app, without having to visit a physical store
- Online shopping:Customers can browse and purchase products and services through the app, without having to visit a physical store
- Product information:Customers can view detailed product information, including images, descriptions, and reviews, to make informed purchasing decisions
- Customers can track the status of their orders and receive updates on shipping and delivery times
- Customer reviews:Customers can read and write reviews of products and services, providing valuable feedback for other customers and the store.

Chapter - 2
System Requirements

2.1 Hardware and Software requirements

- Windows 8 or later in a 64-Bit environment
- Apple MacOS 10.12 (Sierra) or higher
- Internet Connectivity

2.1.1 Hardware

- 64-Bit Operating System
- Graphics card

2.1.2 Software

- Flutter

Chapter - 3
Company profile

3.1 About us

WRTeam is a company built with the ideology of customer first. We are a team of enthusiastic individuals, with foresight for innovation and a passion for solving everyday problems using the latest technology.

We trust in customers' ideas and want to help bring them to life, so they can focus on long-term vision while we do all the hard work. We provide services related to mobile applications and web development.

Mobile Application, Web Application, UI/UX, Logo Design, and branding, we are here for you. To achieve this we have handpicked our people and recruited a team of multitalented individuals, each of whom adds a unique skill to our team of service providers.

#262-263, Time Square Empire, SH 42 Mirjapar highway, Bhuj - Kutch 370001 Gujarat India

❖ Technologies

- Flutter
- Adobe
- ReactJS
- Codeigniter
- Laravel

3.2 Working Areas

Application Development

Website Development

Desktop Application

Logo Design

Contact

Address: #262-263, Time Square Empire, SH 42 Mirjapar highway,
Bhuj - Kutch 370001 Gujarat India.

Phone: 9797945459

Email: info@wrteam.in

3.3 What process we follow

1. Research
2. Planning
3. Creativity
4. Production

Chapter - 4
System Analysis

4.1 Feasibility study

Feasibility study is the most important of analyses through which an analyst can come to know whether their system is practically possible or not for that analyst to make study over the system in different - different aspects. Following are three ways through which we can check the feasibility of system.

Feasibility study (4.1)

4.1.1 Technical Study

After doing feasibility study for the system, system requirements can be easily fulfilled using figma. So, we can say that this system is technically feasible.

4.1.2 Economic Study

For doing economical study we have to compare all the incomes and expenses related to this application. From incomes and costs comparisons we can say that this system is economically feasible for all Users.

Economic study (4.1)

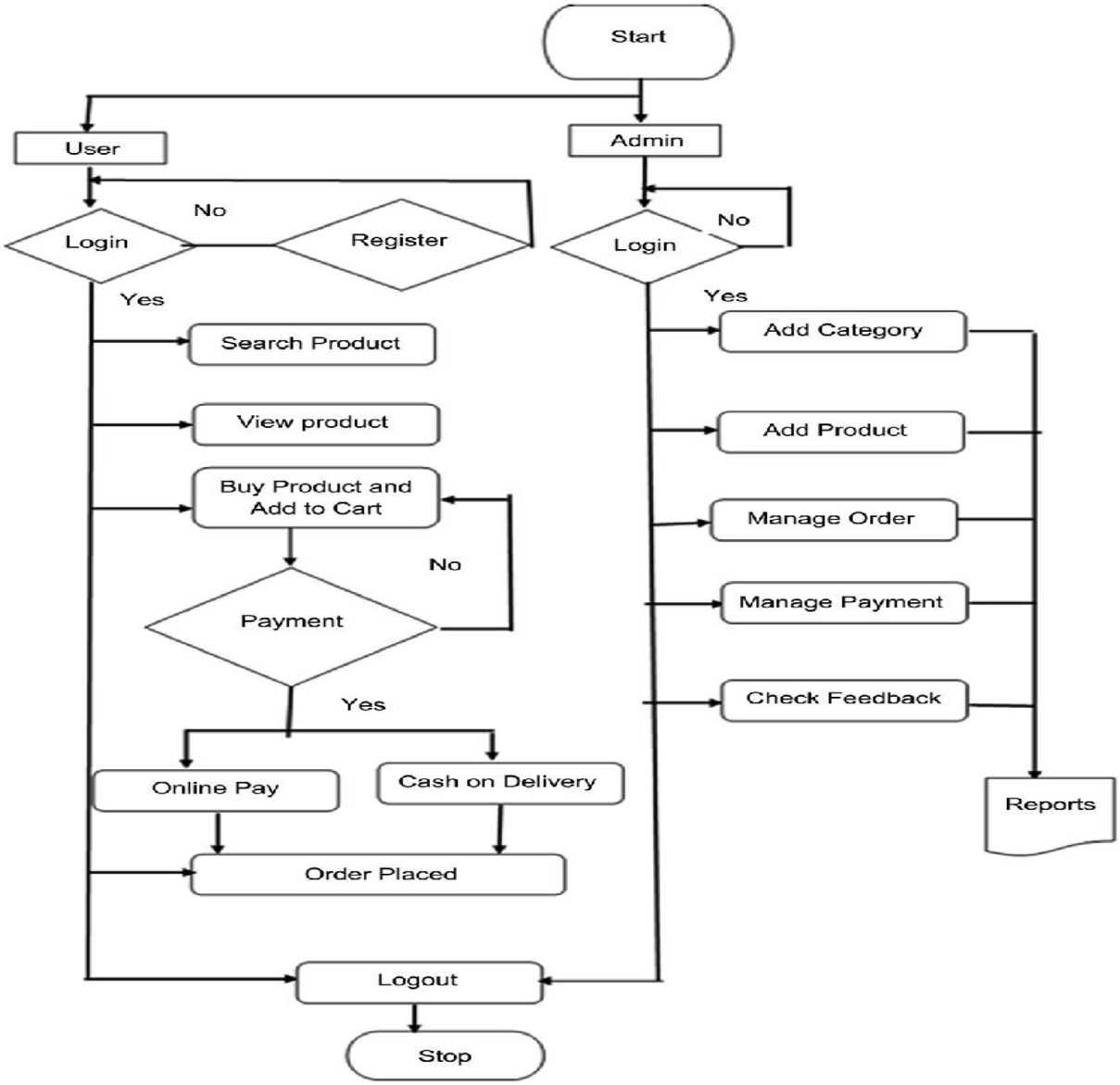
4.1.3 Operational Study

After operational feasibility we can say that this system will be operational feasible because that system will be design and user working with internet, they have basic knowledge of internet and computer so it is easy to explain them and this system is operation feasible.

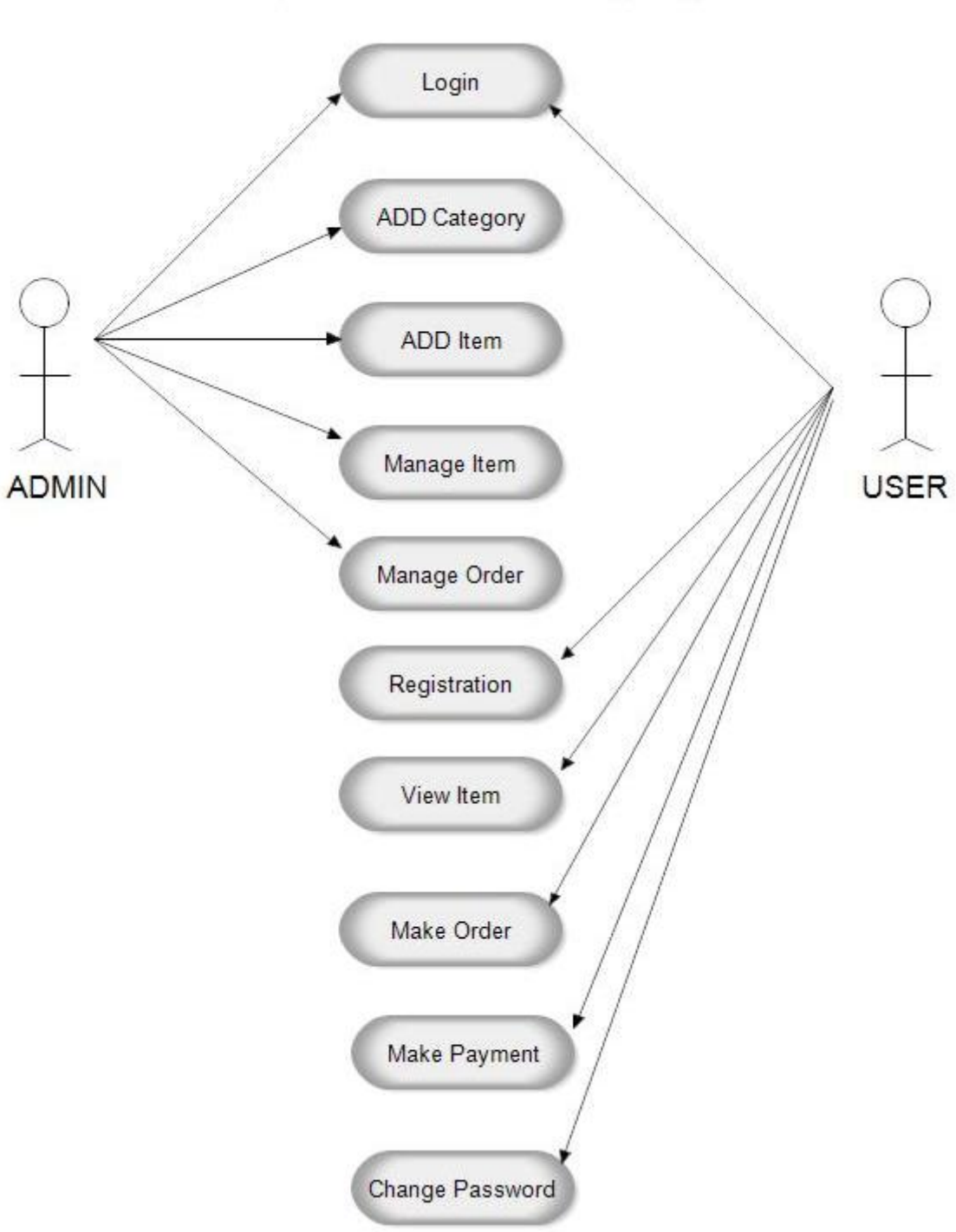
Operational study (4.1)

Chapter - 5
System Design

5.1 Activity Diagram



5.2 Use case


Login
ADD Category
ADD Item
Manage Item
Manage Order
Registration
View Item
Make Order
Make Payment
Change Password
ADMIN
USER

Chapter - 6
Data Dictionary

6.1 Database Explanation

- The database used in this project is Firebase Database, a popular Backend-as-a-Service (Baas) It provides developers with a variety of tools and services to help them develop quality apps, grow their user base, and earn profit. It is built on Google's infrastructure.

- The database consists of a root node called “Users” that contains eight child nodes: “Cart_count”, “Email”, “id”, “imageUrl”, “name”, “order_count”, “password”, “wishlist_count”

6.2 Table Explanation

6.2.1 Users

Field Name	Data Type
email	String
cart_count	String
imageUrl	String
name	String
order_count	String
id	String
password	String
wishlist_count	String

"Users" Table: This table stores information related to users' how many users are there in the E-mart app platform. It might include user ‘email’,users ‘id’,users ’cart_count’,users ‘imageUrl’ , users ‘name’

6.2.2 Product

Field Name	Data Type
P_category	String
P_color	Array
P_desc	String
P_imgs	Array
P_name	String
P_price	String
P_quantity	String
P_rating	String
P_seller	String
P_subcategory	String
P_wishlist	Array
Vendor_id	String

"Product" Table: This table stores information related to users' product. It might include columns such as "p_category" "p_color", "p_desc", "p_imgs", "p_name", "p_price", "p_quantity","p_rating","p_seller".

6.2.3 Cart

Field Name	Data Type
Added_by	String
color	Array
img	Array
qty	String
Seller_name	String
title	String
tprice	String

"Cart" Table: This table stores information related to users' cart on the E-mart app platform. It might include columns such as "added_by", "color" "img", "qyt" and "seller_name".

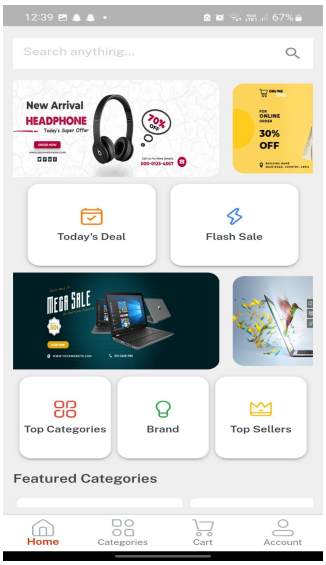
Chapter - 7
Project info

7.1 How will user use this App and definition explain

Here, User has to Login to purchase a product. The user can search for product easily and buy or add to cart. For purchasing, the user has to provide information such as Billing address and Postal code etc. All product details are provided and it also includes product images a review. The user can also post their review and the user can update their Profile as well. It's easy to operate and understand by users. This app makes people easy for product purchasing. The design is very high contrast and the user won't find it difficult to understand, use and navigate.

In short the e-commerce shopping app is a software application that allows users to easily browse, search, purchase, and track the status of products and services online, providing a convenient and efficient shopping experience.

The user can also use the app to make secure payments using a variety of payment methods, such as credit cards, PayPal, or digital wallets. After making a purchase, the user can track the status of their order and receive updates on shipping and delivery times



7.2 Features of e-Commerce App UI

- Simple and Intuitive Navigation
- Shopping Cart
- Create clear chat with user
- Secure payments
- Wish list option available
- Add to Cart option available
- Change profile photos option available

Chapter - 8
System Testing

8.1 Testing Objectives and Goals

The objective of the system testing phase of this project was to ensure that the E-mart application is designed using Flutter met its functional and non-functional requirements. The goals of the testing effort were to:

- Verify that the system was able to load each component and frames smoothly so user can navigate easily.
- Ensure that the system was responsive to user inputs and all the interaction is working properly.

These testing objectives were aligned with the overall goal of the project, which was to provide a reliable and user-friendly E-mart application store UI.

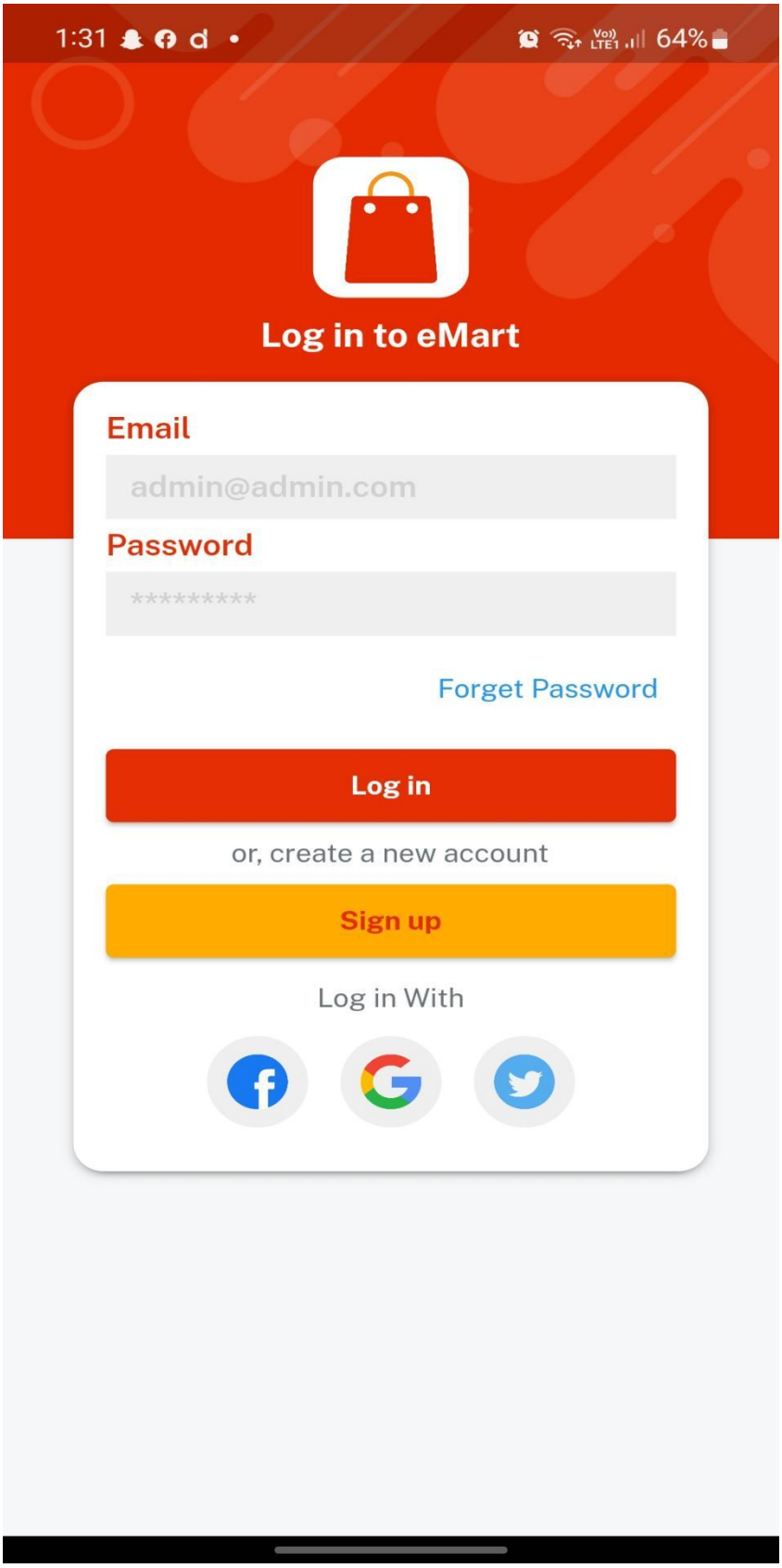
To test the system manual testing was used.

Manual testing was used to test the system's ability to load huge number of components, frames, variants, high resolution images, animations,animations lodding bar, best packages and verifying that the app is response to user inputs and working in proper flow. Automated testing was used to verify the behavior of the app to ensure that the system is scalable and robust.

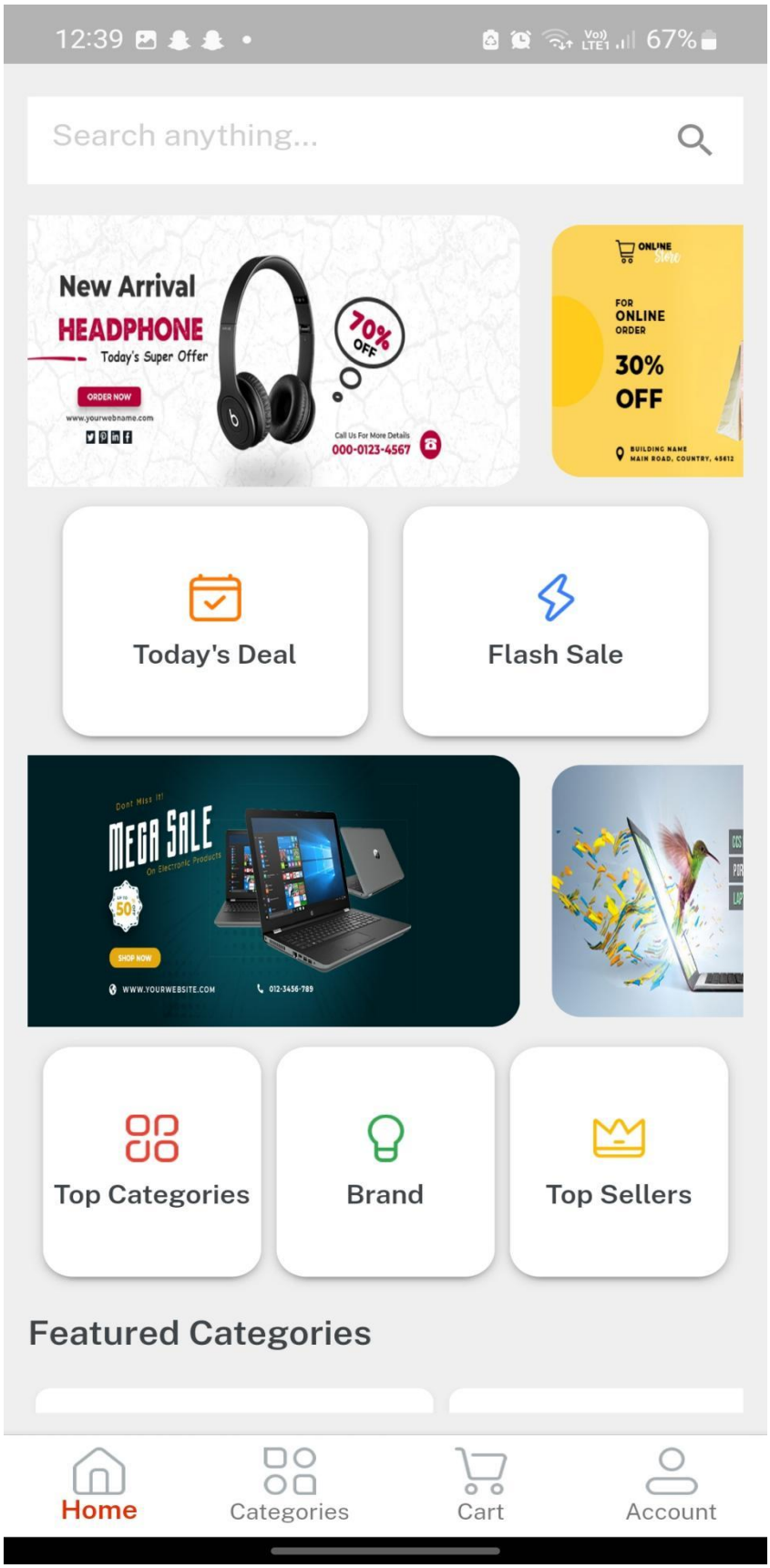
Chapter - 9
Screen short

Splash screen

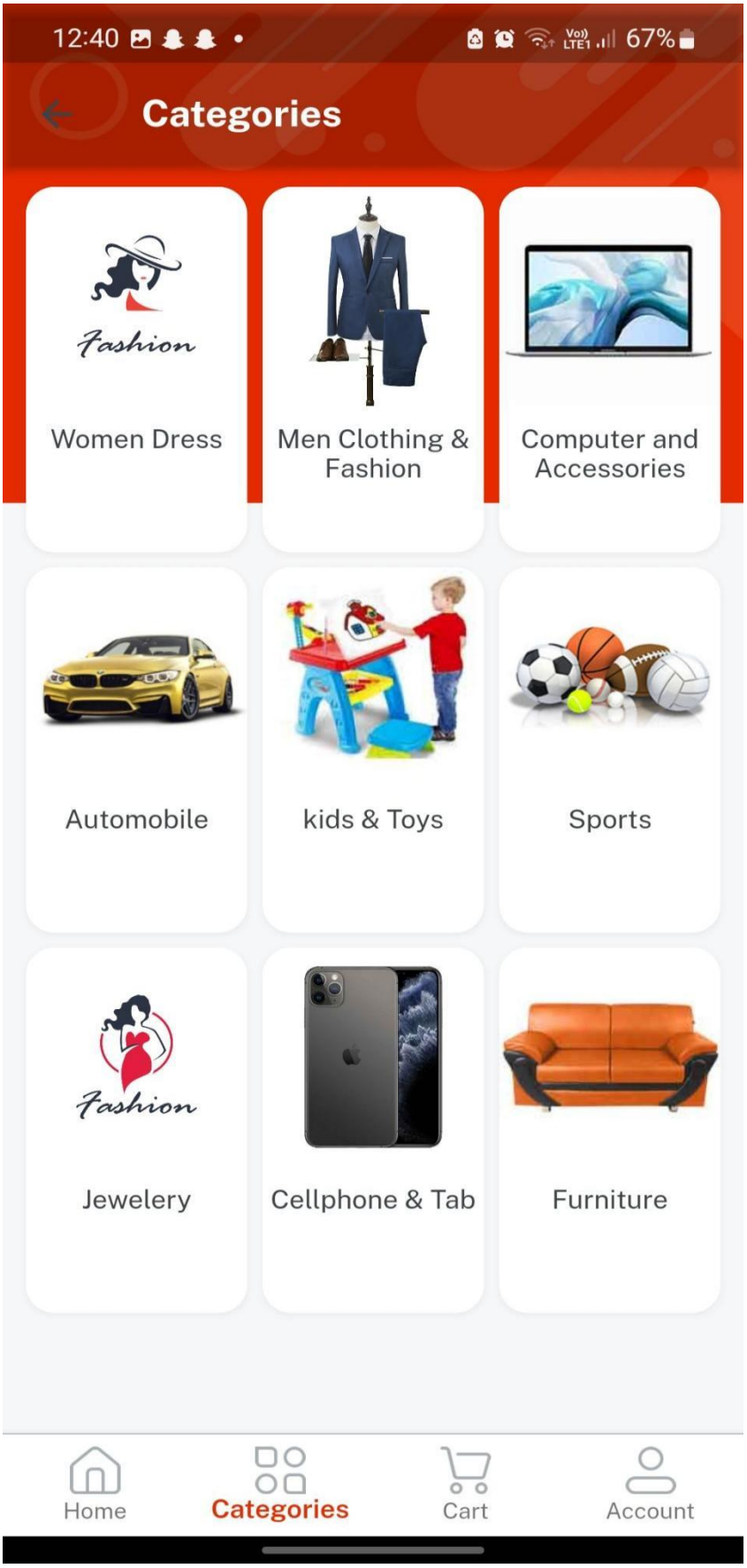
Login screen



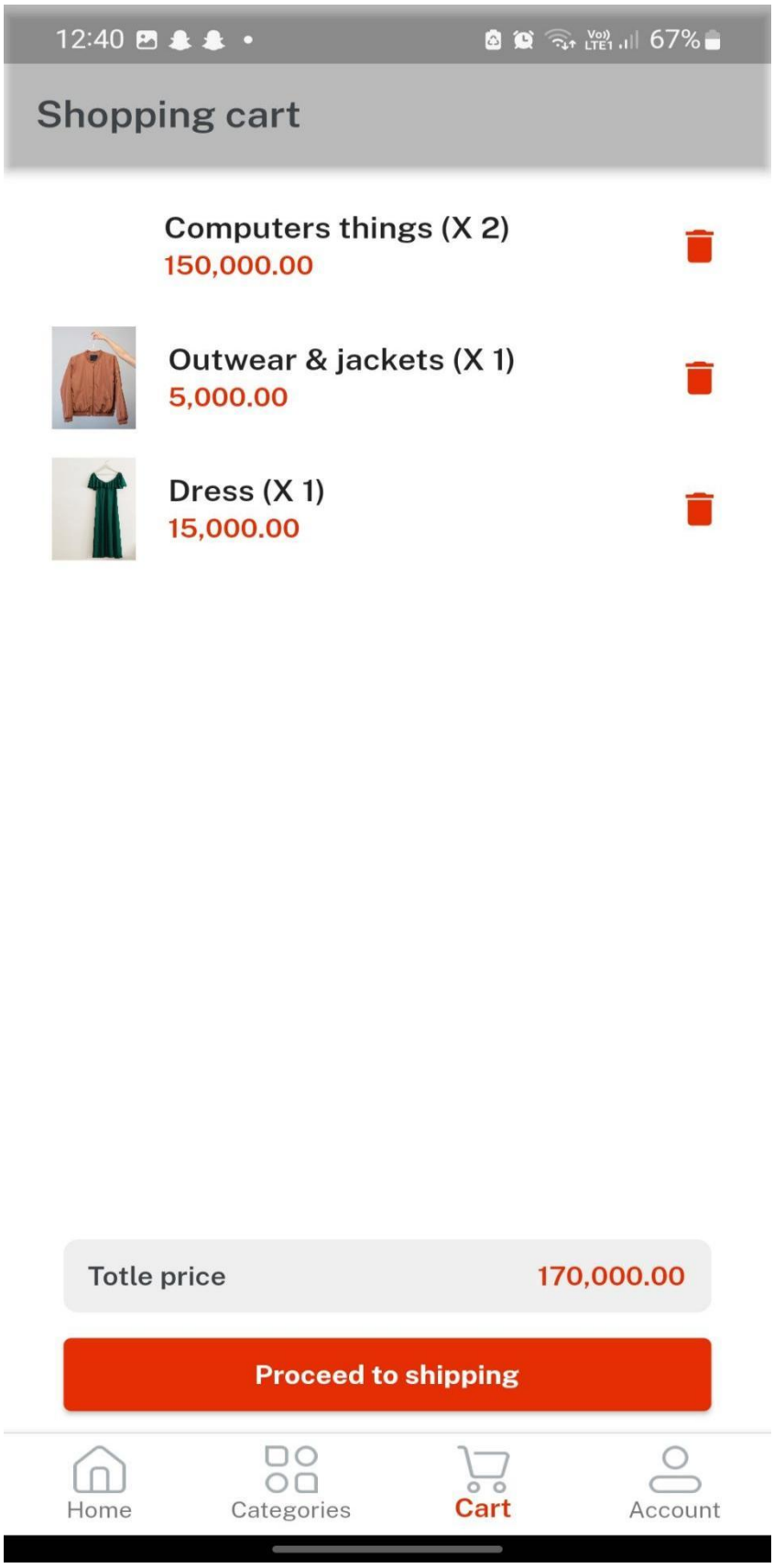
Home screen


12:39
67%
Search anything...
New Arrival
HEADPHONE
Today's Super Offer
ORDER NOW
www.yourwebname.com
70% OFF
Call Us For More Details
000-0123-4567
ONLINE
FOR
ONLINE
ORDER
30%
OFF
Today's Deal
Flash Sale
Dont Miss It!
MEGA SALE
On Electronic Products
SHOP NOW
WWW.YOURWEBSITE.COM
012-3456-789
Top Categories
Brand
Top Sellers
Featured Categories
Home
Categories
Cart
Account

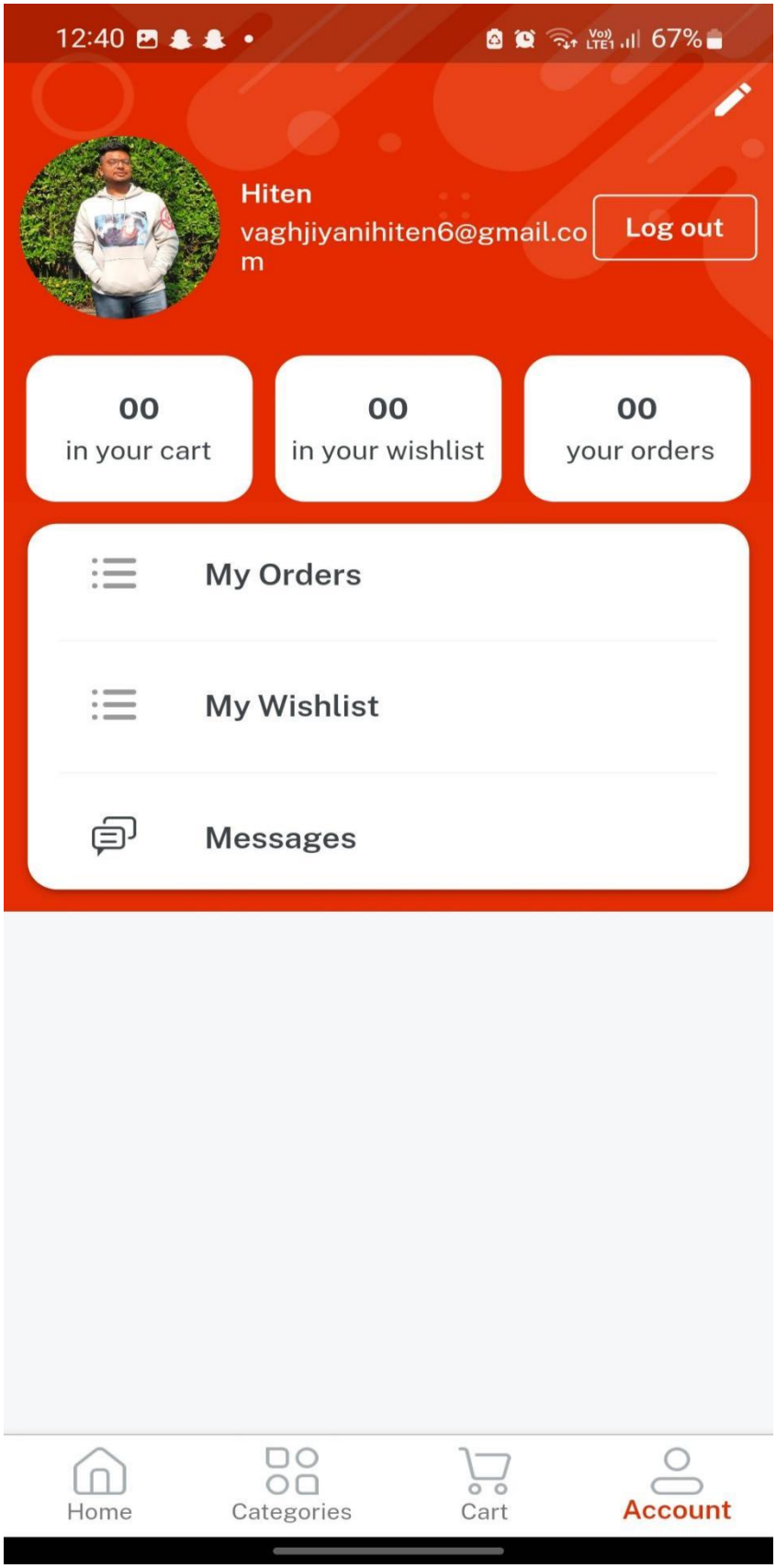
Categories Screen



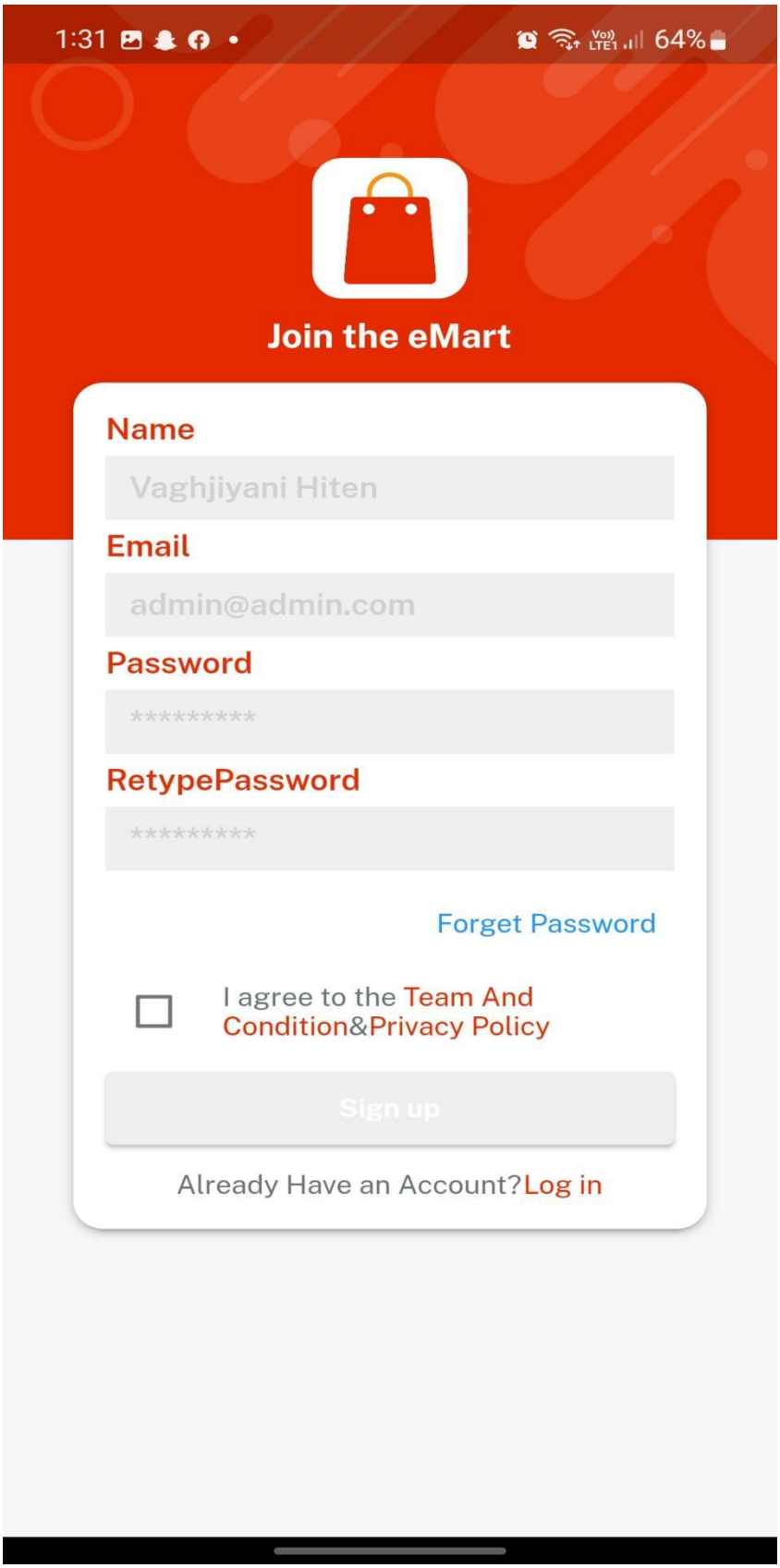
Cart screen


12:40
67%
Shopping cart
Computers things (X 2)
150,000.00
Outwear & jackets (X 1)
5,000.00
Dress (X 1)
15,000.00
Totle price
170,000.00
Proceed to shipping
Home
Categories
Cart
Account

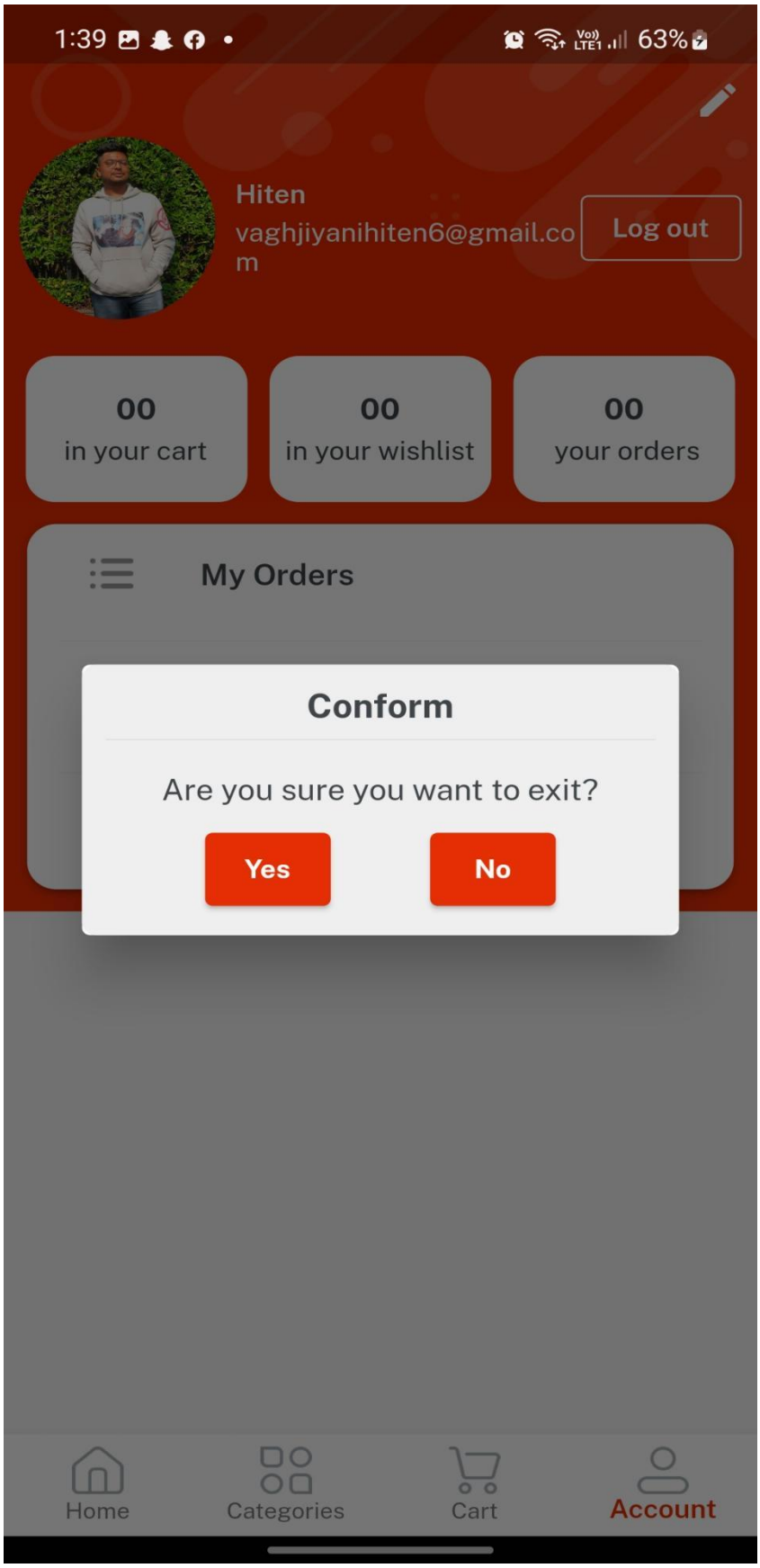
Account Screen



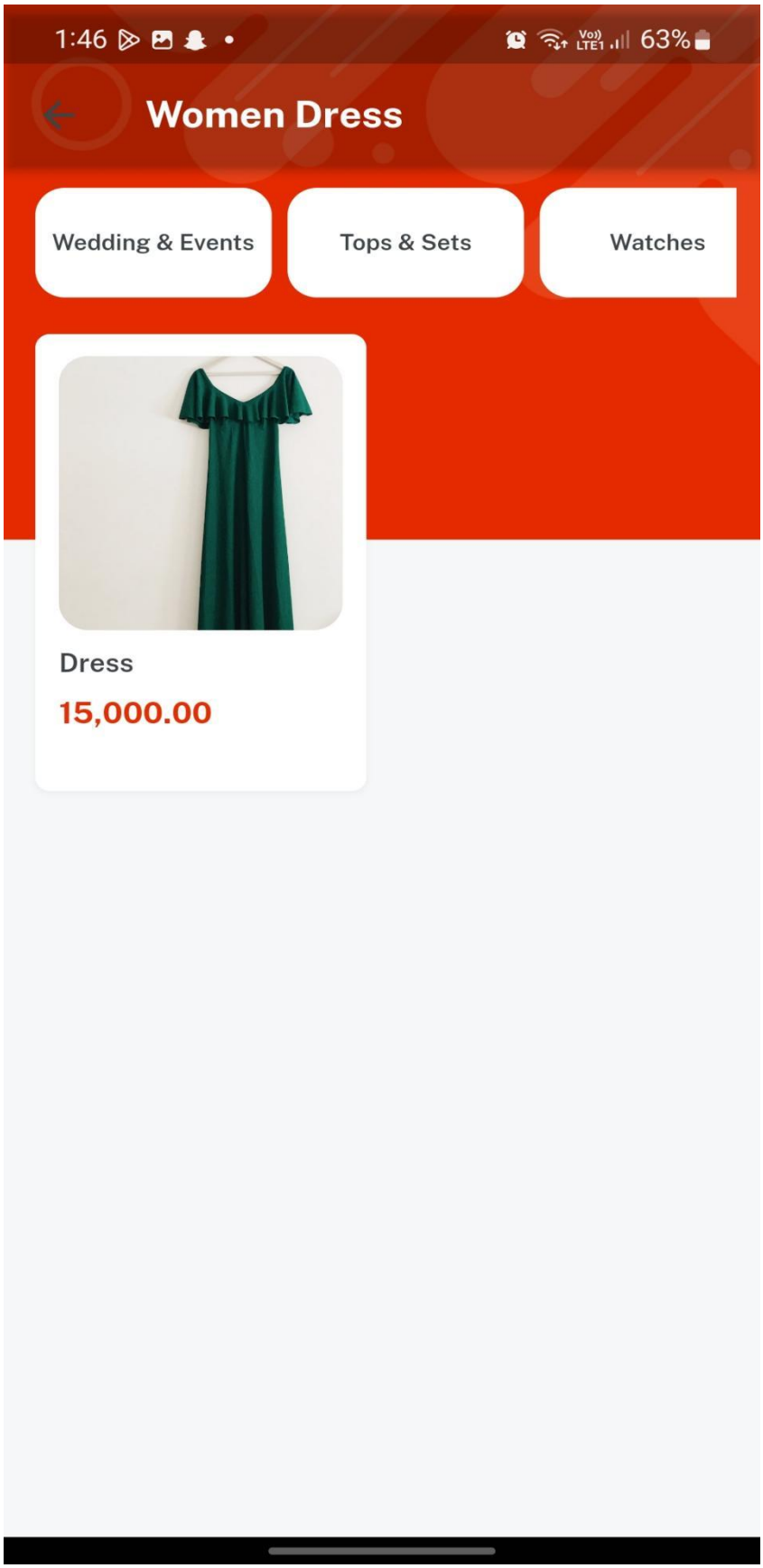
Sign up screen



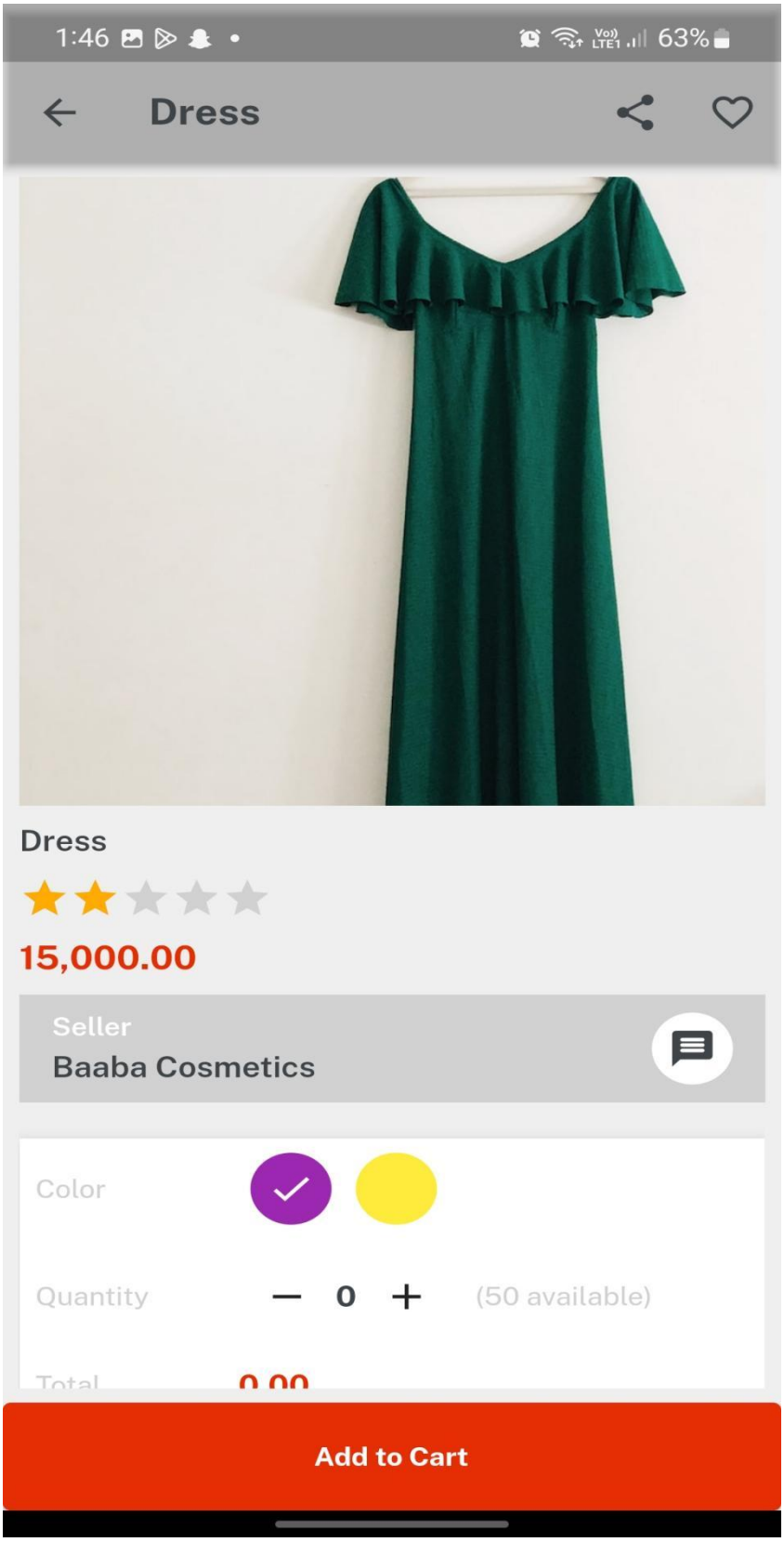
Dailog Screen



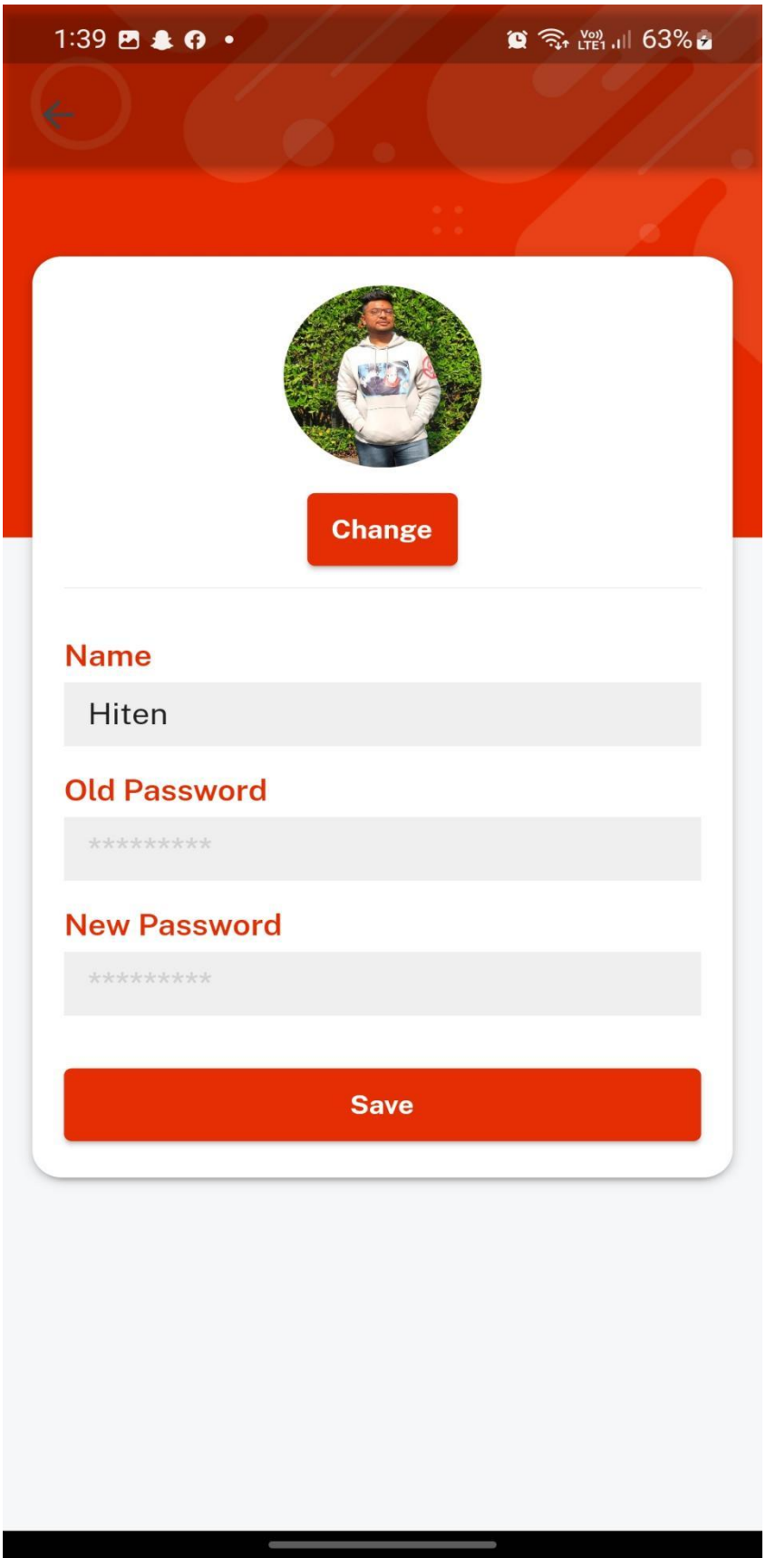
Inside categories screen



Inside Women Dress screen



Edit profile screen



Chapter - 10
Sample code

HOME_SCREEN.DART

```
import 'package:emart_app/consts/consts.dart';
import 'package:emart_app/consts/lists.dart';
import 'package:emart_app/widgets_common/home_buttons.dart';
import 'package:get/get.dart';

import 'components/featured_button.dart';

class HomeScreen extends StatelessWidget{
  const HomeScreen({super.key});

  @override
  Widget build(BuildContext context) {
   return Container(
     padding: EdgeInsets.all(12),
     color:lightGrey,
     width:context.screenWidth,
     height:context.screenHeight,
     child:SafeArea(
       child: Column(
         children: [
           Container(
             alignment: Alignment.center,
             height: 60,
             color: lightGrey,
             child: TextFormField(
               decoration: InputDecoration(
                 border: InputBorder.none,
                 suffixIcon: Icon(Icons.search),
                 filled: true,
                 fillColor: whiteColor,
                 hintText: searchanything,
                 hintStyle: TextStyle(color: textfieldGrey)
               ),
             ),
           ),
           10.heightBox,

         Expanded(
           child: SingleChildScrollView(
             physics: BouncingScrollPhysics(),
             child: Column(
              children: [
                //swiper brands
                VxSwiper.builder(
                   aspectRatio: 16 / 9,
                   autoPlay: true,
                   enlargeCenterPage: true,
                   height: 150,
                   itemCount: slidersList.length,
                   itemBuilder: (context,index){
                     return Image.asset(slidersList[index],
                       fit:BoxFit.fill,).box.rounded.clip(Clip.antiAlias).margin(EdgeInsets.symmetric(horizontal: 8)).make();
                   }),
```

```
10.heightBox,
//after deal button
Row(
 mainAxisAlignment: MainAxisAlignment.spaceEvenly,
 children: List.generate(2, (index) => homeButton(
  height: context.screenHeight * 0.15,
  width: context.screenWidth / 2.5,
  icon: index == 0 ? icTodaysDeal : icFlashDeal,
  title: index == 0 ? todayDeal : flashSale,
 )),
),
// 2nd swiper slider
10.heightBox,
VxSwiper.builder(
  aspectRatio: 16 / 9,
  autoPlay: true,
  enlargeCenterPage: true,
  height: 150,
  itemCount: secoundSlidersList.length,
  itemBuilder: (context,index){
   return Image.asset(secoundSlidersList[index],
    fit:BoxFit.fill,
   ).box.rounded.clip(Clip.antiAlias).margin(const EdgeInsets.symmetric(horizontal: 8)).make();
  }),
10.heightBox,
Row(
  mainAxisAlignment: MainAxisAlignment.spaceEvenly,
  children: List.generate(3, (index) => homeButton(
   height: context.screenHeight * 0.15,
   width: context.screenWidth / 3.5,
   icon: index == 0 ? icTopCategories : index == 1 ? icBrands : icTopSeller,
   title: index == 0 ? topCategories : index == 1 ? brand : topSellers,
  ))
),
// featured cateagories
20.heightBox,
Align(
  alignment: Alignment.centerLeft,
  child: featuredCategories.text.color(darkFontGrey).size(18).fontFamily(semibold).make()),
20.heightBox,
SingleChildScrollView(
 scrollDirection: Axis.horizontal,
 child: Row(
  children:List.generate(3, (index) => Column(
    children: [
     featuredButton(icon:featuredImages1[index],title:featuredTitle1[index]),
     10.heightBox,
     featuredButton(icon:featuredImages2[index],title:featuredTitle2[index]),
    ],
   )
  ).toList(),
 ),
),

//featured product
20.heightBox,
Container(
 padding: EdgeInsets.all(12),
 width: double.infinity,
 decoration: BoxDecoration(
  color: redColor,
 ),
 child: Column(
  crossAxisAlignment: CrossAxisAlignment.start,
  children: [
   featuredProduct.text.white.fontFamily(bold).size(18).make(),
   10.heightBox,
```

```
                SingleChildScrollView(
                  scrollDirection: Axis.horizontal,
                 child:Row(
                  children: List.generate(6, (index) => Column(
                    crossAxisAlignment: CrossAxisAlignment.start,
                    children: [
                      Image.asset(imgP1,width: 150,fit: BoxFit.cover,),
                      10.heightBox,
                      "Loptop 4GB/64GB".text.fontFamily(semibold).color(darkFontGrey).make(),
                      10.heightBox,
                      "\$600".text.color(redColor).fontFamily(bold).size(16).make(),
                    ],
                   ).box.white.margin(EdgeInsets.symmetric(horizontal: 4)).roundedSM.padding(EdgeInsets.all(8)).make()),
                  ),
                 ),
                ],
               ),
              ),

              // third swiper
              20.heightBox,
              VxSwiper.builder(
                 aspectRatio: 16 / 9,
                 autoPlay: true,
                 enlargeCenterPage: true,
                 height: 150,
                 itemCount: secoundSlidersList.length,
                 itemBuilder: (context,index){
                   return Image.asset(secoundSlidersList[index],
                     fit:BoxFit.fill,
                   ).box.rounded.clip(Clip.antiAlias).margin(const EdgeInsets.symmetric(horizontal: 8)).make();
                 }),

               // all producsts section
              20.heightBox,
              GridView.builder(
                physics: const NeverScrollableScrollPhysics(),
                shrinkWrap: true,
                 itemCount: 6,
                 gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(crossAxisCount: 2,mainAxisSpacing:
8,crossAxisSpacing: 8,mainAxisExtent: 300),
                 itemBuilder: (context,index){
                return Column(
                 crossAxisAlignment: CrossAxisAlignment.start,
                 children: [
                   Image.asset(imgP5,height: 200,width: 200,fit: BoxFit.cover,),
                   Spacer(),
                   "Loptop 4GB/64GB".text.fontFamily(semibold).color(darkFontGrey).make(),
                   10.heightBox,
                   "\$600".text.color(redColor).fontFamily(bold).size(16).make(),
                 ],
                ).box.white.margin(EdgeInsets.symmetric(horizontal: 4)).roundedSM.padding(EdgeInsets.all(12)).make();
              }),

            ],
           ),
          ),
         ),
        ],
        ),
    ),
   );
  }
}
```

CATEGORY_SCREEN.DART

```
import 'package:emart_app/consts/consts.dart';
import 'package:emart_app/consts/lists.dart';
import 'package:emart_app/controller/product_controller.dart';
import 'package:emart_app/views/category_screen/category_details.dart';
import 'package:emart_app/widgets_common/bg_wiget.dart';
import 'package:get/get.dart';
import 'package:get/get_core/src/get_main.dart';

class CategoryScreen extends StatelessWidget{
  const CategoryScreen({super.key});

  @override
  Widget build(BuildContext context) {
    var controller = Get.put(ProductController());

    return bgWidget(
      child:Scaffold(
        appBar: AppBar(
          title: categories.text.fontFamily(bold).color(whiteColor).make(),
        ),
        body: Container(
          padding: EdgeInsets.all(12),
          child: GridView.builder(
            shrinkWrap: true,
              itemCount: 9,
              gridDelegate: SliverGridDelegateWithFixedCrossAxisCount(crossAxisCount: 3,mainAxisSpacing:
8,crossAxisSpacing: 8,mainAxisExtent: 200 ),
              itemBuilder: (context,index){
            return Column(
              children: [
                Image.asset(categoryImage[index], height: 120, width: 200, fit: BoxFit.cover,
                ),
                10.heightBox,
                "${categoriesList[index]}".text.color(darkFontGrey).align(TextAlign.center).make(),
              ],
            ).box.white.rounded.clip(Clip.antiAlias).outerShadowSm.make().onTap(() {
              controller.getSubCategories(categoriesList[index]);
              Get.to(()=> CategoryDetails(title: categoriesList[index]));
            });
          }),
        ),
      ),
    );
  }
}
```

LOGIN_SCREEN.DART

```
import 'package:emart_app/consts/consts.dart';
import 'package:emart_app/consts/lists.dart';
import 'package:emart_app/controller/auth_controller.dart';
import 'package:emart_app/views/auth_screen/signup_screen.dart';
import 'package:emart_app/views/home_screen/home.dart';
import 'package:emart_app/widgets_common/applogo_widget.dart';
import 'package:emart_app/widgets_common/custom_textfield.dart';
import 'package:emart_app/widgets_common/our_button.dart';
import 'package:get/get.dart';
import 'package:get/get_core/src/get_main.dart';
import '../../widgets_common/bg_wiget.dart';
import 'package:emart_app/consts/string.dart';

class LoginScreen extends StatelessWidget{
  const LoginScreen({super.key});

  @override
  Widget build(BuildContext context) {

    var controller = Get.put(AuthController());

  return bgWidget(child:Scaffold(
    resizeToAvoidBottomInset: false,
    body: Center(
      child: Column(
        children: [
          (context.screenHeight * 0.1).heightBox,
          applogo_Widget(),
          10.heightBox,
          "Log in to $appname".text.fontFamily(bold).white.size(18).make(),
          15.heightBox,

          Obx(() => Column(
              children: [
                customTextfield(hint: emailHint,title: email,isPass: false,controller: controller.emailController),
                customTextfield(hint: passwordHint,title: password,isPass: true,controller: controller.passwordController),
                Align(
                  alignment: Alignment.centerRight,
                    child: TextButton(onPressed: (){}, child: forgetPass.text.make())),
                  5.heightBox,
                controller.isloading.value ? CircularProgressIndicator(
                  valueColor: AlwaysStoppedAnimation(redColor),
                ):
                ourButton(onPress: () async{
                  controller.isloading(true);
                      await controller.loginMethod(context: context).then((value){
                        if(value != null){
                          VxToast.show(context, msg: loggedin);
                          Get.offAll(() => const Home());
                        }else{
                          controller.isloading(false);
                        }
                      });
                    },title: login,textcolor: whiteColor,color: redColor)
                      .box
                      .width(context.screenWidth - 50)
                      .make(),
                      5.heightBox,
                      createNewAccount.text.color(fontGrey).make(),
                      5.heightBox,
                      ourButton(onPress: (){
                        Get.to(()=> SignupScreen());
                      },title: signup,textcolor: redColor,color: golden)
```

```
                .box
                .width(context.screenWidth - 50)
                .make(),

                 10.heightBox,
                loginWith.text.color(fontGrey).make(),
                5.heightBox,

                Row(
                  mainAxisAlignment: MainAxisAlignment.center,
                  children: List.generate(3, (index) => Padding(
                    padding: const EdgeInsets.all(8.0),
                    child: CircleAvatar(
                      backgroundColor: lightGrey,
                      radius: 25,
                      child: Image.asset(socialIconList[index],width: 30,),
                    ),
                  )),
                )
            ],
          ).box.white.rounded.padding(const EdgeInsets.all(16)).width(context.screenWidth -70).shadowSm.make(),
        )
      ],
    ),
  ),
 ));
 }

}
```

PROFILE_SCREEN.DART

```
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:emart_app/consts/consts.dart';
import 'package:emart_app/consts/lists.dart';
import 'package:emart_app/controller/auth_controller.dart';
import 'package:emart_app/controller/profile_controller.dart';
import 'package:emart_app/services/firestore_services.dart';
import 'package:emart  app/views/auth  screen/login  screen.dart';
import 'package:emart_app/views/profile_screen/edit_profile_screen.dart';
import 'package:emart_app/widgets_common/bg_wiget.dart';
import 'package:get/get.dart';

import 'components/details_card.dart';

class ProfilScreen extends StatelessWidget{
  const ProfilScreen({super.key});

  @override
  Widget build(BuildContext context) {

    var controller = Get.put(ProfileController());

    return bgWidget(
      child: Scaffold(
        body:StreamBuilder(
          stream: FirestorServices.getUser(currentUser?.uid),
          builder: (BuildContext context, AsyncSnapshot<QuerySnapshot> snapshot) {
            if(!snapshot.hasData){
              return const Center(
                child:CircularProgressIndicator(valueColor: AlwaysStoppedAnimation(redColor),
                ),
              );
            }
            else{
              print(snapshot.data?.docs.first.data());
              var data = snapshot.data!.docs[0];

              return SafeArea(child: Column(
                children: [
                  //edit profile button
                  Padding(
                    padding: const EdgeInsets.all(8.0),
                    child: const Align(
                       alignment: Alignment.topRight,
                       child: Icon(Icons.edit,color: whiteColor,)).onTap(() {
                         controller.nameController.text = data['name'];

                        Get.to(()=> EditProfileScreen(data: data));
                      }),
                  ),

                  //user details section
                  Padding(
                    padding: const EdgeInsets.symmetric(horizontal: 8.0),
                    child: Row(
                      children: [
                        data['imageUrl'] == '' ?

                        Image.asset(imgProfile2,width:100,fit: BoxFit.cover).box.roundedFull.clip(Clip.antiAlias).make():

                        Image.network(data['imageUrl'],width:100,fit: BoxFit.cover).box.roundedFull.clip(Clip.antiAlias).make(),


                        10.widthBox,
```

```
                Expanded(child: Column(
                  crossAxisAlignment: CrossAxisAlignment.start,
                  children: [
                    "${data['name']}".text.fontFamily(semibold).white.make(),
                    5.heightBox,
                    "${data['email']}".text.white.make()
                  ],
                ),),
                OutlinedButton(
                    style: OutlinedButton.styleFrom(
                        side: BorderSide(
                            color: whiteColor
                        )
                    ),
                    onPressed: () async{
                      await Get.put(AuthController()).signoutMethod(context);
                      Get.offAll(()=>const LoginScreen());
                    },
                    child: logout.text.fontFamily(semibold).white.make())
              ],
            ),
          ),
          20.heightBox,
          Row(
            mainAxisAlignment: MainAxisAlignment.spaceEvenly,
            children: [
              detailsCard(count: data['cart_count'], title: "in your cart", width: context.screenWidth/3.4),
              detailsCard(count: data['wishlist_count'], title: "in your wishlist", width: context.screenWidth/3.4),
              detailsCard(count: data['order_count'], title: " your orders", width: context.screenWidth/3.4)
            ],
          ),


          //button section
          ListView.separated(
            shrinkWrap: true,
            separatorBuilder: (context,index){
              return const Divider(
                color: lightGrey,
              );
            },
            itemCount: profileButtonList.length,
            itemBuilder: (BuildContext context,int index){
              return ListTile(
                leading: Image.asset(profileButtonIcon[index],width: 22,),
                title: "${profileButtonList[index]}".text.fontFamily(semibold).color(darkFontGrey).make(),
              );
            },
          ).box.white.rounded.margin(EdgeInsets.all(12)).padding(EdgeInsets.symmetric(horizontal:
16)).shadowSm.make().box.color(redColor).make(),
        ],
      ),);
    }

    return Container();
  },
  )
  )
  );
 }
}
```

CART_SCREEN.DART

```
import 'package:cloud_firestore/cloud_firestore.dart';
import 'package:emart_app/consts/consts.dart';
import 'package:emart_app/controller/cart_controller.dart';
import 'package:emart_app/services/firestore_services.dart';
import 'package:emart_app/widgets_common/loading_indicator.dart';
import 'package:emart_app/widgets_common/our_button.dart';
import 'package:get/get.dart';

class CartScreen extends StatelessWidget{
  const CartScreen({super.key});

  @override
  Widget build(BuildContext context) {

    var controller = Get.put(CartController());

    return Scaffold(
      backgroundColor: whiteColor,
      appBar: AppBar(
        automaticallyImplyLeading: false,
        title: "Shopping cart".text.color(darkFontGrey).fontFamily(semibold).make(),
      ),
      body: StreamBuilder(
        stream: FirestorServices.getCart(currentUser?.uid),
        builder: (BuildContext context, AsyncSnapshot<QuerySnapshot> snapshot) {
          if(!snapshot.hasData){
            return Center(
              child: loadingIndicator(),
            );
          }
          else if(snapshot.data!.docs.isEmpty){
            return Center(
              child: "Cart is empty".text.color(darkFontGrey).make(),
            );
          }
          else{
            var data = snapshot.data!.docs;
            controller.calculate(data);

            return Padding(
              padding: const EdgeInsets.all(8.0),
              child: Column(
                children: [
                  Expanded(
                    child:ListView.builder(
                        itemCount: data.length,
                        itemBuilder: (BuildContext context,int index){
                          return ListTile(
                            leading: Image.network("${data[index]['img']}"),
                            title: "${data[index]['title']} (X ${data[index]['qty']})".text.fontFamily(semibold).size(16).make(),
                            subtitle: "${data[index]['tprice']}".numCurrency.text.color(redColor).fontFamily(semibold).make(),
                            trailing: Icon(
                              Icons.delete,
                              color: redColor,
                            ).onTap(() {
                              FirestorServices.deletaDocument(data[index].id);

                            }),
                          );
                        }),
                  ),
                  Row(
                    mainAxisAlignment: MainAxisAlignment.spaceBetween,
```

```
                children: [
                  "Totle price".text.fontFamily(semibold).color(darkFontGrey).make(),

                  Obx(()=> "${controller.totalP.value}".numCurrency.text.fontFamily(semibold).color(redColor).make()),
                ],
              ).box.padding(EdgeInsets.all(12)).width(context.screenWidth - 60).color(lightGrey).roundedSM.make(),
              10.heightBox,
              SizedBox(
                width: context.screenWidth -60,
                child: ourButton(
                  color: redColor,
                  onPress: (){},
                  textcolor: whiteColor,
                  title: "Proceed to shipping"
                ))
            ],
          ),
        );
      }
    },)
  );
 }
}
```

EDIT_PROFILE_SCREEN.DART

```
import 'dart:io';
import 'package:emart_app/controller/profile_controller.dart';
import 'package:emart_app/widgets_common/bg_wiget.dart';
import 'package:emart_app/widgets_common/custom_textfield.dart';
import 'package:emart_app/widgets_common/our_button.dart';
import 'package:get/get.dart';

import '../../consts/consts.dart';

class EditProfileScreen extends StatelessWidget {

 final dynamic data;

 const EditProfileScreen ({Key? key, this.data}) : super(key: key);

 @override
 Widget build(BuildContext context) {
  var controller = Get.find<ProfileController>();


  return bgWidget(
   child: Scaffold(
    resizeToAvoidBottomInset: false,
    appBar: AppBar(),
    body: Obx(() => Column(
      mainAxisSize: MainAxisSize.min,
      children: [
     //if data image url and controller path is empty
      data['imageUrl'] == '' && controller.profileImgPath.isEmpty
          ? Image.asset(imgProfile2,width:100,fit: BoxFit.cover).box.roundedFull.clip(Clip.antiAlias).make()

      //if data is not empty but controller path is empty
          : data['imageUrl'] != '' && controller.profileImgPath.isEmpty?
      Image.network(data['imageUrl'],
       width: 100,
       fit:BoxFit.cover).box.roundedFull.clip(Clip.antiAlias).make():

         //else if controller path is not empty but data image url is
      Image.file(
           File(controller.profileImgPath.value),
              width: 100,
              fit:BoxFit.cover ,
      ).box.roundedFull.clip(Clip.antiAlias).make(),


       10.heightBox,
       ourButton(color: redColor,onPress: (){
        controller.changeImage(context);
       },textcolor: whiteColor,title: "Change"),
       Divider(),
       20.heightBox,
       customTextfield(hint: nameHint, title:name, isPass:false,controller: controller.nameController),
       10.heightBox,
       customTextfield(hint: passwordHint, title:oldpass, isPass:true,controller: controller.oldpassController),
       10.heightBox,
       customTextfield(hint: passwordHint, title:newpass, isPass:true,controller: controller.newpassController),
       20.heightBox,
      controller.isloading.value ? const CircularProgressIndicator(
       valueColor: AlwaysStoppedAnimation(redColor),
      ): SizedBox(
        width: context.screenWidth - 60,
         child: ourButton(color: redColor,onPress: () async{
```

```
                controller.isloading(true);
                //if image is not selected
                if(controller.profileImgPath.value.isNotEmpty){
                  await controller.uploadProfileImage();
                }else{
                  controller.profileImageLink = data['imageUrl'];
                }

                //if old password  matches to the database
                if(data['password'] == controller.oldpassController.text){
                  await controller.changeAuthPassword(
                    email: data['email'],
                    password: controller.oldpassController.text,
                    newpassword: controller.newpassController.text,
                  );

                  await controller.updateProfile(
                    imgUrl: controller.profileImageLink,
                    name: controller.nameController.text,
                    password: controller.newpassController.text,
                  );
                  VxToast.show(context, msg: "Updated");
                }else{
                  VxToast.show(context, msg: "Wrong old password");
                  controller.isloading(false);
                }

              },textcolor: whiteColor,title: "Save")),
          ],
        ).box.white.shadowSm.padding(EdgeInsets.all(16)).margin(EdgeInsets.only(top: 50,left: 15,right:
15)).rounded.make(),
      ),
    )
  );
 }
}
```

Chapter - 11
Conclusion

In this project, I designed a E-mart app UI using Flutter that allows users to explore UI that feels like exploring a real app. We also conducted system testing to ensure that the system met its functional and non-functional requirements.

The system design and development phase involved a thorough analysis of user requirements, hardware and software selection, system design, and implementation. The final system design included a 64-bit Operating System and an Android mobile app and also a laptop, PC or Mac for run the app.

Overall, this project was successful in meeting its goals of providing a reliable and user-friendly E-mart app UI. The system allows users to navigate and explore UI easily in mobile app.

In conclusion, we believe that this project demonstrates the potential of E-mart app UI using Flutter. We hope that our work will inspire further research and development in this field, and that it will contribute to the continued growth and innovation of the UI/UX industry.

Chapter - 12

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