EKART SERVICES

(ECOMMERCE PLATFORM)

MOBILE APPLICATION DEVEVELOPMENT

Masters of Computer Applications

By

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VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

12/8/2022

DECLARATION

I hereby declare that the this entitled “MOBILE APPLICATION DEVELOPMENT EKART SERVICES” submitted by our team, for the award of the degree of Specify the name of the degree VITis a record of bonafide work carried out by me under the supervision of **SRINIVASAN.P**

I further declare that the work reported in this this has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

Place: Vellore

Date: 12/08/2022

SignatureoftheCandidates

CERTIFICATE

This is to certify that the thesis entitled “MOBILE APPLICATION DEVELOPMENT (EKART SERVICE)” submitted

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School of Information Technology and Engineering VIT, for the award ofthe degree of Bachelor of Computer Applicationsis a record of bonafide work carried out by him under my supervision.

The contents of this report have not been submitted and will not be submitted either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university. The Project report fulfils the requirements and regulationsofVIT and in my opinion meets the necessary standards for submission.

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ABSTRACT:

Mobile and e-commerce applications are tools for accessing the Internet and for buying products and services. These applications are constantly evolving due to the high rate of technological advances being made. This paper provides a new perspective on the types of applications that can be used. It describes and analyses device requirements, provides a literature review of important aspects of mobile devices that can use such applications and the requirements of websites designed for m-commerce. The design and security aspects of mobile devices are also investigated. As an alternative to existing m-commerce applications, this paper also investigates the characteristics and potential of the Phone Gap cross-mobile platform application. The results suggest that effective mobile applications do exist for various Smartphones, and web applications on mobile devices should be effective. Phone Gap and Spree applications can communicate using JSON instead of the XML language. Android simulators can be used for ensuring proper functionality and for compiling the applications.

INTRODUCTION:

The internet has changed many aspects of society, from business to recreation, from culture to communication and technology, as well as shopping and travelling. This new form of communication has provided new ways of doing business with the help of technological development. E-commerce is the new way of shopping and doing business. Technology has allowed companies to promote and sell their products on new markets, overcoming geographical borders as never before. Consumers have access to a wider market of products when they use wireless and internet technologies. Mobile devices with wide access to the Internet have allowed companies to

reach consumers in more diverse ways, thus ensuring deep market penetration. This study investigates the opportunities generated through mobile telephone access to the Internet. Faster wireless networking standards allow wireless devices to use more ecommerce applications, and consequently, permit wider access to mobile commerce (m-commerce). M-commerce has been defined as "a special branch of e-commerce, in which mobile devices and their network connection medium are used to buy, sell, and promote products, services, and information" [20]. According to Koukia, Rigou and Sirmakessis (2006), wireless technologies have improved traditional e-commerce by "providing the additional aspects of mobility (of participation) and portability (of technology)." On this theme, mobile and e-commerce application developments are an important factor for the expansion of m-commerce among consumers. The technical characteristics of devices and corresponding applications, as well as Internet access facilities, are determining the level of acceptance of commerce and its development. Aspects like processing power, display and device size, mobile internet coverage, standardization and quality of devices, are only some of the important factors that decide the level of use of m-commerce, and consequently, the level of its development. The purpose of designing interfaces for mobile applications should be to increase consumers' interest in using and dedication to m-commerce. Among the inhibiting factors is that m-commerce applications were developed based on ecommerce applications. The most important thing when designing such applications is to design the application in such a way that it does not distract the user from the main purpose of the application. However, aspects concerning security and accessibility should not be neglected. Even though storing sensitive data such as medical, financial, or personal information on mobile devices can help people, the risks of losing such information or of unauthorized access are higher and should be considered when an m-commerce transaction begins.

MODULES DESCRIPTION:

- **PRODUCT CATAGORIES**

  ADDING PRODUCTS

  MULTIPLE PRODUCT CATAGORIES

  ALL TYPE OF PRODUCTS

- **Information**

  PRODUCT INFORMATION

  ABOUT PRODUCT

- **Services**

  USER INFORMATION DETAILS

  USER PRODUCT DETAILS

- **Users**

  Sign in

  Sign out

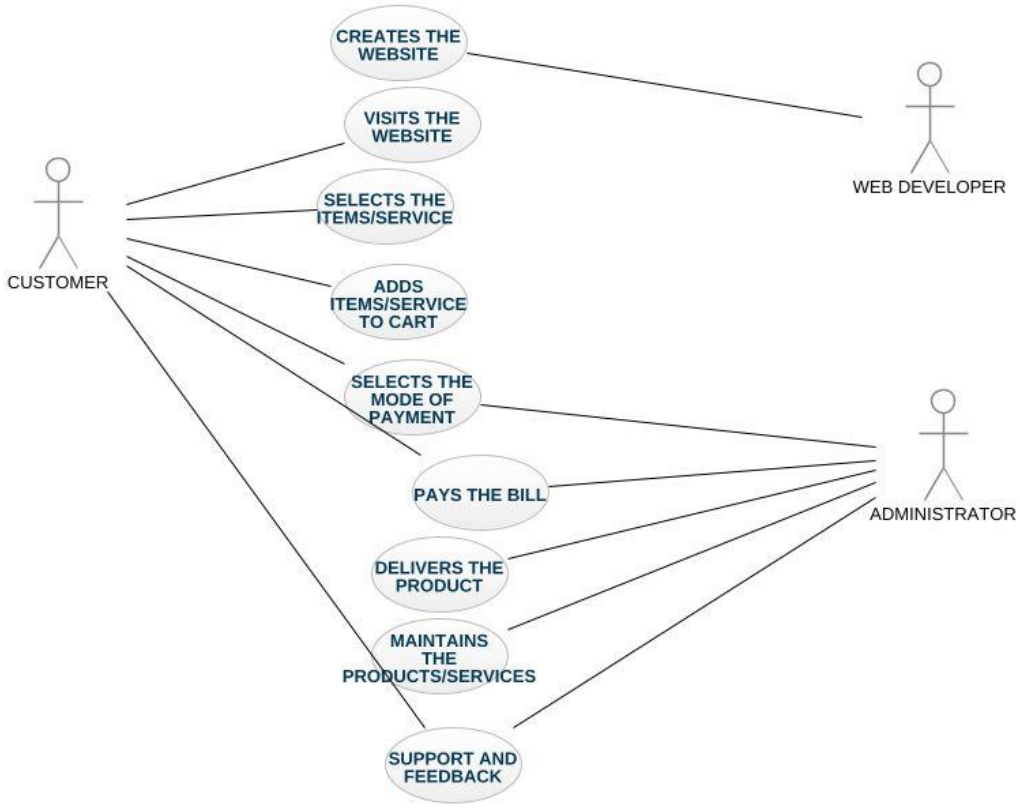
  Admin Sign in

  Admin Sign Out

  Log in

  Log Out

MODULE ARCHITECTURE:



IMPLIMENTATION:

MAIN PAGE:

```
package com.ekart.shopping;

import android.app.ProgressDialog;
import android.content.Intent;

import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import com.ekart.shopping.Model.Users;
import com.ekart.shopping.Prevalent.Prevalent;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
```

```
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;

import io.paperdb.Paper;

public class MainActivity extends AppCompatActivity {
    private Button joinNowButton, loginButton;
    private ProgressDialog loadingBar;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        joinNowButton = (Button) findViewById(R.id.main_join_now_btn);
        loginButton = (Button) findViewById(R.id.main_login_btn);
        loadingBar = new ProgressDialog(this);
        Paper.init(this);

        loginButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(MainActivity.this,
com.ekart.shopping.LoginActivity.class);
                startActivity(intent);
            }
        });
        joinNowButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view)
            {
                Intent intent = new Intent(MainActivity.this,
RegisterActivity.class);
                startActivity(intent);
            }
        });
        String UserPhoneKey = Paper.book().read(Prevalent.UserPhoneKey);
        String UserPasswordKey =
Paper.book().read(Prevalent.UserPasswordKey);
        if (UserPhoneKey != "" && UserPasswordKey != "")
        {
            if (!TextUtils.isEmpty(UserPhoneKey)  &&
!TextUtils.isEmpty(UserPasswordKey))
            {
                AllowAccess(UserPhoneKey, UserPasswordKey);

                loadingBar.setTitle("Already Logged in");
                loadingBar.setMessage("Please wait.....");
                loadingBar.setCanceledOnTouchOutside(false);
                loadingBar.show();
            }
        }
    }
    private void AllowAccess(final String phone, final String password)
    {
        final DatabaseReference RootRef;
        RootRef = FirebaseDatabase.getInstance().getReference();
        RootRef.addListenerForSingleValueEvent(new ValueEventListener()
```

```
{
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot)
{
                if (dataSnapshot.child("Users").child(phone).exists()){

                    Users usersData =
dataSnapshot.child("Users").child(phone).getValue(Users.class);
                    if (usersData.getPhone().equals(phone))
                    {
                        if (usersData.getPassword().equals(password))
                        {
                            Toast.makeText(MainActivity.this, "Please
wait, you are already logged in...", Toast.LENGTH_SHORT).show();
                            loadingBar.dismiss();

                            Intent intent = new
Intent(MainActivity.this, HomeActivity.class);
                            Prevalent.currentOnlineUser = usersData;
                            startActivity(intent);

                        }
                        else {
                            loadingBar.dismiss();
                            Toast.makeText(MainActivity.this,"Password
is incorrect",Toast.LENGTH_SHORT).show();
                        }
                    }
                }
                else {
                    Toast.makeText(MainActivity.this, "Account with this
" + phone + " number do not exists.", Toast.LENGTH_SHORT).show();
                    loadingBar.dismiss();
                }
            }

            @Override
            public void onCancelled(DatabaseError databaseError) {

            }
        });
    }
}
```

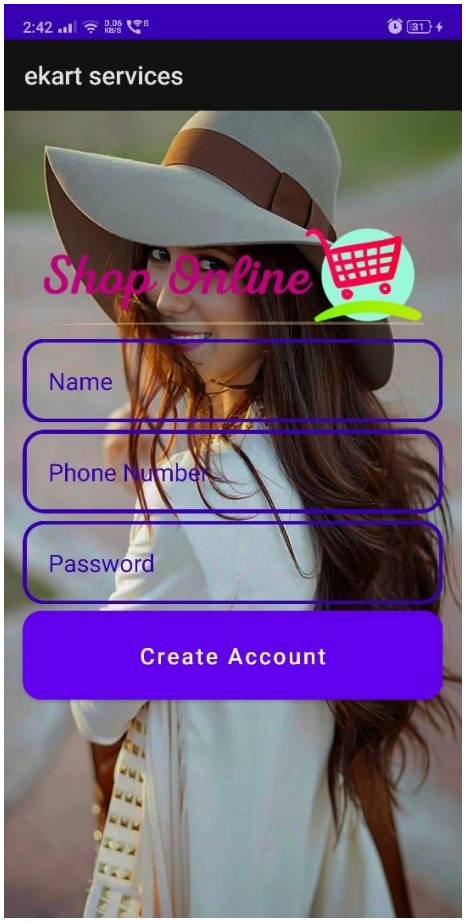
SIGN UP:

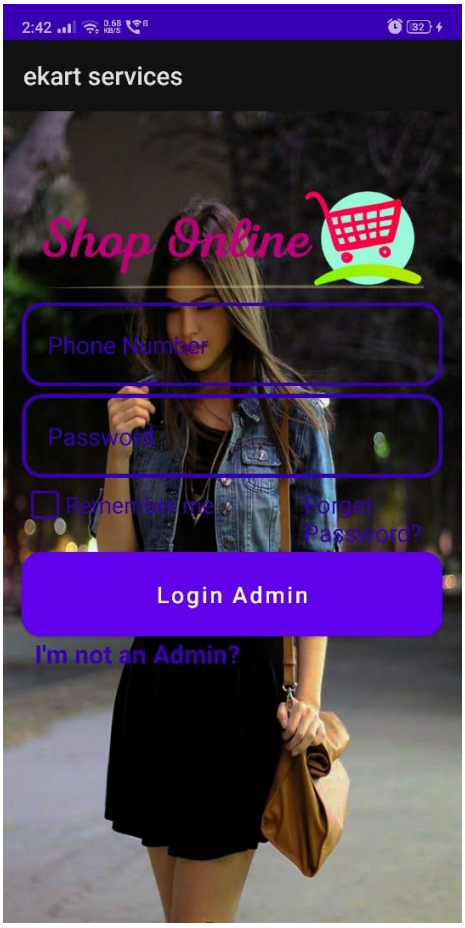
```
package com.ekart.shopping;

import android.app.ProgressDialog;
import android.content.Intent;

import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import com.ekart.shopping.Model.Users;
import com.ekart.shopping.Prevalent.Prevalent;
import com.google.firebase.database.DataSnapshot;
```

```
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
import com.rey.material.widget.CheckBox;
import io.paperdb.Paper;

public class LoginActivity extends AppCompatActivity {
    private EditText InputPhoneNumber, InputPassword;
    private Button LoginButton;
    private ProgressDialog loadingBar;
    private TextView AdminLink, NotAdminLink;
    private String parentDbName = "Users";
    private CheckBox chkBoxRememberMe;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_login);
        LoginButton = (Button) findViewById(R.id.login_btn);
        InputPassword = (EditText)
findViewById(R.id.login_password_input);
        InputPhoneNumber = (EditText)
findViewById(R.id.login_phone_number_input);
        AdminLink = (TextView) findViewById(R.id.admin_panel_link);
        NotAdminLink = (TextView)
findViewById(R.id.not_admin_panel_link);
        loadingBar = new ProgressDialog(this);
        chkBoxRememberMe = (CheckBox)
findViewById(R.id.remember_me_chkb);
        Paper.init(this);
        LoginButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                LoginUser();
            }
        });

        AdminLink.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view)
            {
                LoginButton.setText("Login Admin");
                AdminLink.setVisibility(View.INVISIBLE);
                NotAdminLink.setVisibility(View.VISIBLE);
                parentDbName = "Admins";
            }
        });
        NotAdminLink.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view)
            {
                LoginButton.setText("Login");
                AdminLink.setVisibility(View.VISIBLE);
                NotAdminLink.setVisibility(View.INVISIBLE);
                parentDbName = "Users";
            }
        });
```

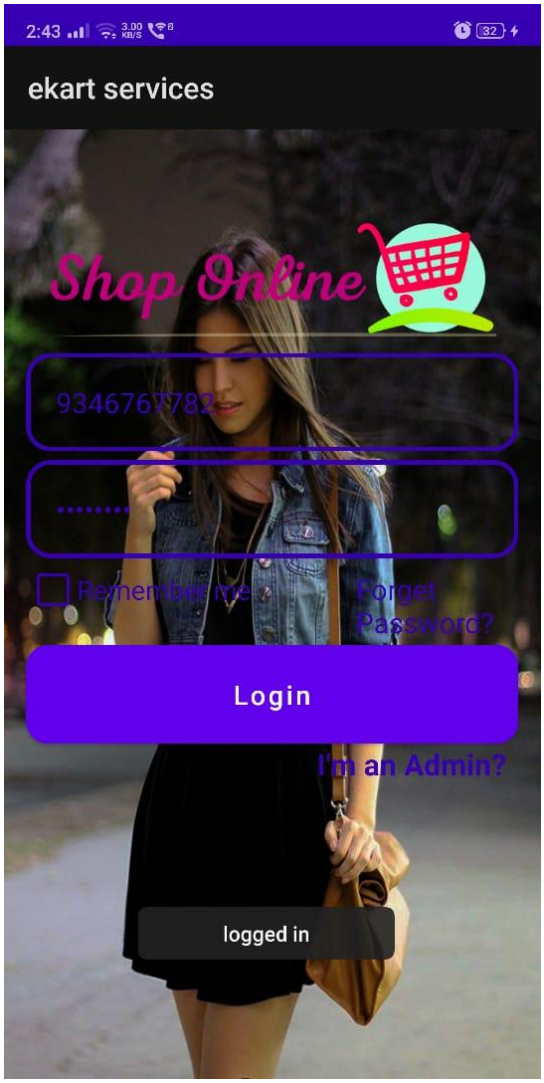
```
    }
    private void LoginUser()
    {
        String phone = InputPhoneNumber.getText().toString();
        String password = InputPassword.getText().toString();

        if (TextUtils.isEmpty(phone))
        {
            Toast.makeText(this, "Please write your phone number...",
Toast.LENGTH_SHORT).show();
        }
        else if (TextUtils.isEmpty(password))
        {
            Toast.makeText(this, "Please write your password...",
Toast.LENGTH_SHORT).show();
        }
        else
        {
            loadingBar.setTitle("Login Account");
            loadingBar.setMessage("Please wait, while we are checking
the credentials.");
            loadingBar.setCanceledOnTouchOutside(false);
            loadingBar.show();


            AllowAccessToAccount(phone, password);
        }
    }
    private void AllowAccessToAccount(final String phone, final String
password)
    {

        if(chkBoxRememberMe.isChecked())
        {
            Paper.book().write(Prevalent.UserPhoneKey, phone);
            Paper.book().write(Prevalent.UserPasswordKey, password);
        }
        final DatabaseReference RootRef;
        RootRef = FirebaseDatabase.getInstance().getReference();
        RootRef.addListenerForSingleValueEvent(new ValueEventListener()
{
            @Override
            public void onDataChange(@NonNull DataSnapshot dataSnapshot)
{
                if
(dataSnapshot.child(parentDbName).child(phone).exists()){

                    Users usersData =
dataSnapshot.child(parentDbName).child(phone).getValue(Users.class);
                    if (usersData.getPhone().equals(phone))
                    {
                        if (usersData.getPassword().equals(password))
                        {
                            if(parentDbName.equals("Admins"))
                            {
                                Toast.makeText(LoginActivity.this,
```

```
"Welcome Admin, you are logged in Successfully...",
Toast.LENGTH_SHORT).show();
                                loadingBar.dismiss();

                                Intent intent = new
Intent(LoginActivity.this,
com.ekart.shopping.AdminCategoryActivity.class);
                                startActivity(intent);
                            }
                            else if (parentDbName.equals("Users")){
                                Toast.makeText(LoginActivity.this,
"logged in Successfully...", Toast.LENGTH_SHORT).show();
                                loadingBar.dismiss();

                                Intent intent = new
Intent(LoginActivity.this, HomeActivity.class);
                                Prevalent.currentOnlineUser = usersData;
                                startActivity(intent);
                            }

                        }
                        else {
                            loadingBar.dismiss();
                            Toast.makeText(LoginActivity.this,"Password
is incorrect",Toast.LENGTH_SHORT).show();
                        }
                    }
                }
                else {
                    Toast.makeText(LoginActivity.this, "Account with
this " + phone + " number do not exists.", Toast.LENGTH_SHORT).show();
                    loadingBar.dismiss();
                }
            }

            @Override
            public void onCancelled(DatabaseError databaseError) {

            }
        });
    }
}
```


2:42
ekart services
Shop Online
Name
Phone Number
Password
Create Account


2:42
ekart services
Shop Online
Phone Number
Password
Remember me
Forget Password?
Login Admin
I'm not an Admin?

LOG IN:



PRODUCT DETAILS:

```
package com.ekart.shopping;

import androidx.annotation.NonNull;
import androidx.appcompat.app.ActionBarDrawerToggle;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.app.AppCompatDelegate;
import androidx.core.view.GravityCompat;
import androidx.drawerlayout.widget.DrawerLayout;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.content.Intent;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
```

```
import android.view.ViewGroup;
import android.widget.TextView;
import androidx.appcompat.widget.Toolbar;

import com.ekart.shopping.Model.Products;
import com.ekart.shopping.Prevalent.Prevalent;
import com.ekart.shopping.ViewHolder.ProductViewHolder;
import com.firebase.ui.database.FirebaseRecyclerAdapter;
import com.firebase.ui.database.FirebaseRecyclerOptions;
import
com.google.android.material.floatingactionbutton.FloatingActionButton;
import com.google.android.material.navigation.NavigationView;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.squareup.picasso.Picasso;

import de.hdodenhof.circleimageview.CircleImageView;
import io.paperdb.Paper;

public class HomeActivity extends AppCompatActivity implements
NavigationView.OnNavigationItemSelectedListener {
    private DatabaseReference ProductsRef;
    DrawerLayout drawerLayout;
    NavigationView navigationView;
    Toolbar toolbar;
    TextView textView;
    private RecyclerView recyclerView;
    RecyclerView.LayoutManager layoutManager;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_home);

AppCompatDelegate.setDefaultNightMode(AppCompatDelegate.MODE_NIGHT_YES);
        ProductsRef =
FirebaseDatabase.getInstance().getReference().child("Products");

        drawerLayout=findViewById(R.id.drawer_layout);
        navigationView=findViewById(R.id.nav_view);
        toolbar=findViewById(R.id.toolbar);
        androidx.appcompat.widget.Toolbar toolbar =
(androidx.appcompat.widget.Toolbar) findViewById(R.id.toolbar);
        toolbar.setTitle("Home");
        setSupportActionBar(toolbar);

        navigationView.bringToFront();
        ActionBarDrawerToggle toggle=new
ActionBarDrawerToggle(this,drawerLayout,toolbar,R.string.navigation_draw
er_open,R.string.navigation_drawer_close);
        drawerLayout.addDrawerListener(toggle);
        toggle.syncState();
        navigationView.setNavigationItemSelectedListener(this);


        View headerView = navigationView.getHeaderView(0);
        TextView userNameTextView =
```

```
headerView.findViewById(R.id.user_profile_name);
        CircleImageView profileImageView =
headerView.findViewById(R.id.user_profile_image);
        userNameTextView.setText(Prevalent.currentOnlineUser.getName());

Picasso.get().load(Prevalent.currentOnlineUser.getImage()).placeholder(R
.drawable.profile).into(profileImageView);
        recyclerView = findViewById(R.id.recycler_menu);
        recyclerView.setHasFixedSize(true);
        layoutManager = new LinearLayoutManager(this);
        recyclerView.setLayoutManager(layoutManager);

        FloatingActionButton fab = (FloatingActionButton)
findViewById(R.id.fab);
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new
Intent(HomeActivity.this,CartActivity.class);
                startActivity(intent);
            }
        });

    }
    @Override
    protected void onStart() {
        super.onStart();
        FirebaseRecyclerOptions<Products> options =
                new FirebaseRecyclerOptions.Builder<Products>()
                        .setQuery(ProductsRef, Products.class)
                        .build();

        FirebaseRecyclerAdapter<Products, ProductViewHolder> adapter =
                new FirebaseRecyclerAdapter<Products,
ProductViewHolder>(options) {
                    @Override
                    protected void onBindViewHolder(@NonNull
ProductViewHolder holder, int position, @NonNull final Products model)
                    {
                        holder.txtProductName.setText(model.getPname());

holder.txtProductDescription.setText(model.getDescription());
                        holder.txtProductPrice.setText("Price = " +
model.getPrice() + "Rs.");

Picasso.get().load(model.getImage()).into(holder.imageView);
                        holder.itemView.setOnClickListener(new
View.OnClickListener() {
                            @Override
                            public void onClick(View view) {
                                Intent intent =new
Intent(HomeActivity.this,ProductDetailsActivity.class);
                                intent.putExtra("pid",model.getPid());
                                startActivity(intent);
                            }
                        });
                    }
```

```
                    @NonNull
                    @Override
                    public ProductViewHolder onCreateViewHolder(@NonNull
ViewGroup parent, int viewType) {
                        View view =
LayoutInflater.from(parent.getContext()).inflate(R.layout.product_items_
layout, parent, false);
                        ProductViewHolder holder = new
ProductViewHolder(view);
                        return holder;
                    }
                };
        recyclerView.setAdapter(adapter);
        adapter.startListening();

    }
    @Override
    public void onBackPressed(){
        if(drawerLayout.isDrawerOpen(GravityCompat.START)){
            drawerLayout.closeDrawer(GravityCompat.START);
        }
        else
        {super.onBackPressed();
        }
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is
present.
        getMenuInflater().inflate(R.menu.main_menu, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        // Handle action bar item clicks here. The action bar will
        // automatically handle clicks on the Home/Up button, so long
        // as you specify a parent activity in AndroidManifest.xml.
        int id = item.getItemId();

        //noinspection SimplifiableIfStatement
//        if (id == R.id.action_settings) {
//            return true;
//        }

        return super.onOptionsItemSelected(item);
    }




    @Override
    public boolean onNavigationItemSelected(MenuItem item) {
        // Handle navigation view item clicks here.
        int id = item.getItemId();
```

```
        if (id == R.id.nav_cart) {
            Intent intent = new
Intent(HomeActivity.this,CartActivity.class);
            startActivity(intent);
        } else if (id == R.id.nav_search) {
            Intent intent = new
Intent(HomeActivity.this,SearchProductsActivity.class);
            startActivity(intent);

        } else if (id == R.id.nav_categories) {

        } else if (id == R.id.nav_settings) {
            Intent intent=new
Intent(HomeActivity.this,SettinsActivity.class);
            startActivity(intent);

        } else if (id == R.id.nav_logout) {
            Paper.book().destroy();
            Intent intent=new
Intent(HomeActivity.this,MainActivity.class);
            intent.addFlags(Intent.FLAG_ACTIVITY_NEW_TASK
|Intent.FLAG_ACTIVITY_CLEAR_TASK );
            startActivity(intent);
            finish();

        }


        drawerLayout.closeDrawer(GravityCompat.START);
        return true;
    }
```

PRODUCT CART AND DETAILS:

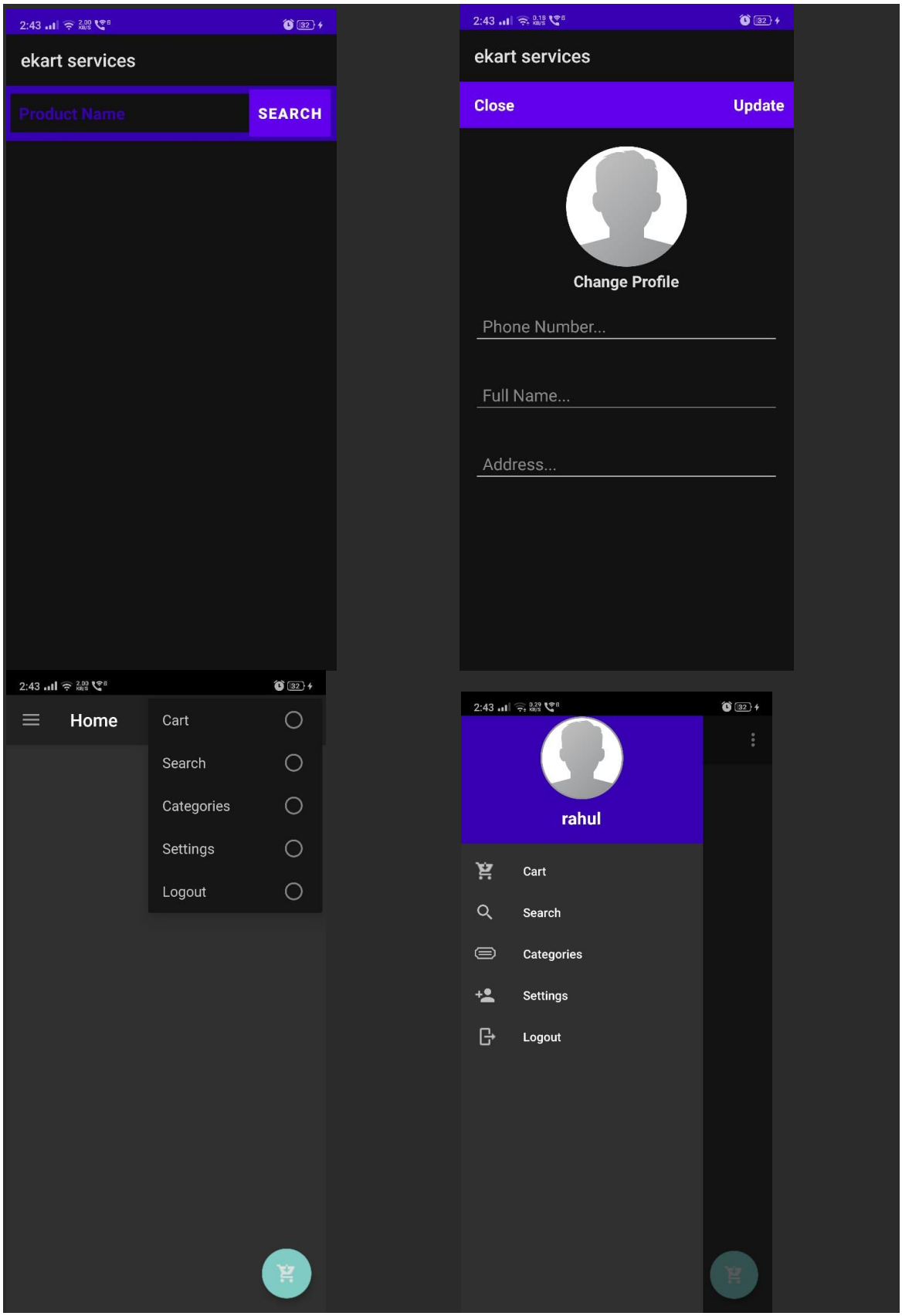
```
package com.ekart.shopping;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import com.cepheuen.elegantnumberbutton.view.ElegantNumberButton;
import com.ekart.shopping.Model.Products;
import com.ekart.shopping.Prevalent.Prevalent;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
```

```
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;
import com.squareup.picasso.Picasso;

import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.HashMap;

public class ProductDetailsActivity extends AppCompatActivity {
    private Button addToCartButton;
    private ImageView productImage;
    private ElegantNumberButton numberButton;
    private TextView productPrice,productDescription,productName;
    private String productID="", state = "Normal";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_product_details);
        productID = getIntent().getStringExtra("pid");
        addToCartButton =(Button)
findViewById(R.id.pd_add_to_cart_button);
        numberButton = (ElegantNumberButton)
findViewById(R.id.number_btn);
        productImage = (ImageView)
findViewById(R.id.product_image_details);
        productName = (TextView)
findViewById(R.id.product_name_details);
        productDescription = (TextView)
findViewById(R.id.product_description_details);
        productPrice = (TextView)
findViewById(R.id.product_price_details);
        getProductDetails(productID);
        addToCartButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                if (state.equals("Order Placed") || state.equals("Order
Shipped")){
                    Toast.makeText(ProductDetailsActivity.this,"You can
add Purchase more product, once your order is shipped or
confirmed",Toast.LENGTH_LONG).show();
                }
                else
                {
                    addingToCartList();
                }
            }
        });
    }

    @Override
    protected void onStart() {
        super.onStart();
```

```
        CheckOrderState();
    }

    private void addingToCartList() {
        String saveCurrentTime,saveCurrentDate;
        Calendar calForDate = Calendar.getInstance();
        SimpleDateFormat currentDate = new SimpleDateFormat("MMM dd.
yyy");
        saveCurrentDate = currentDate.format(calForDate.getTime());
        SimpleDateFormat currentTime = new SimpleDateFormat("HH:mm:ss
a");
        saveCurrentTime = currentDate.format(calForDate.getTime());
        final DatabaseReference cartListRef =
FirebaseDatabase.getInstance().getReference().child("Cart List");
        final HashMap<String, Object>cartMap = new HashMap<>();
        cartMap.put("pid",productID);
        cartMap.put("pname",productName.getText().toString());
        cartMap.put("price",productPrice.getText().toString());
        cartMap.put("date",saveCurrentDate);
        cartMap.put("time",saveCurrentTime);
        cartMap.put("quantity",numberButton.getNumber());
        cartMap.put("discount","");

        cartListRef.child("User
view").child(Prevalent.currentOnlineUser.getPhone()).child("Products").c
hild(productID).updateChildren(cartMap).addOnCompleteListener(new
OnCompleteListener<Void>() {
            @Override
            public void onComplete(@NonNull Task<Void> task) {
                if (task.isSuccessful()){
                    cartListRef.child("Admin
view").child(Prevalent.currentOnlineUser.getPhone())
                            .child("Products").child(productID)
                            .updateChildren(cartMap)
                            .addOnCompleteListener(new
OnCompleteListener<Void>() {
                                @Override
                                public void onComplete(@NonNull
Task<Void> task) {
                                    if (task.isSuccessful()){

Toast.makeText(ProductDetailsActivity.this,"Added to cart
List",Toast.LENGTH_SHORT).show();
                                        Intent intent = new
Intent(ProductDetailsActivity.this,HomeActivity.class);
                                        startActivity(intent);
                                    }
                                }
                            });
                }
            }
        });



    }
```

```
    private void getProductDetails(String productID) {
        DatabaseReference productsRef =
FirebaseDatabase.getInstance().getReference().child("Products");
        productsRef.child(productID).addValueEventListener(new
ValueEventListener() {
            @Override
            public void onDataChange(DataSnapshot dataSnapshot) {
                if (dataSnapshot.exists()){
                    Products
products=dataSnapshot.getValue(Products.class);
                    productName.setText(products.getPname());
                    productPrice.setText(products.getPrice());

productDescription.setText(products.getDescription());

Picasso.get().load(products.getImage()).into(productImage);

                }
            }

            @Override
            public void onCancelled(DatabaseError databaseError) {

            }
        });
    }

    //

    private void CheckOrderState()
    {
        DatabaseReference ordersRef;
        ordersRef =
FirebaseDatabase.getInstance().getReference().child("Orders").child(Prev
alent.currentOnlineUser.getPhone());
        ordersRef.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(DataSnapshot dataSnapshot) {
                if (dataSnapshot.exists()){
                    String shippingState =
dataSnapshot.child("state").getValue().toString();
                    if (shippingState.equals("Shipped")){
                        state ="Order Shipped";
                    }
                    else if (shippingState.equals("Not Shipped")){
                        state ="Order Placed";
                    }
                }
            }

            @Override
            public void onCancelled(DatabaseError databaseError) {

            }
        });
    }
```

[redacted]


2:43
ekart services
Product Name
SEARCH
2:43
ekart services
Close
Update
Change Profile
Phone Number...
Full Name...
Address...
2:43
Home
Cart
Search
Categories
Settings
Logout
2:43
rahul
Cart
Search
Categories
Settings
Logout

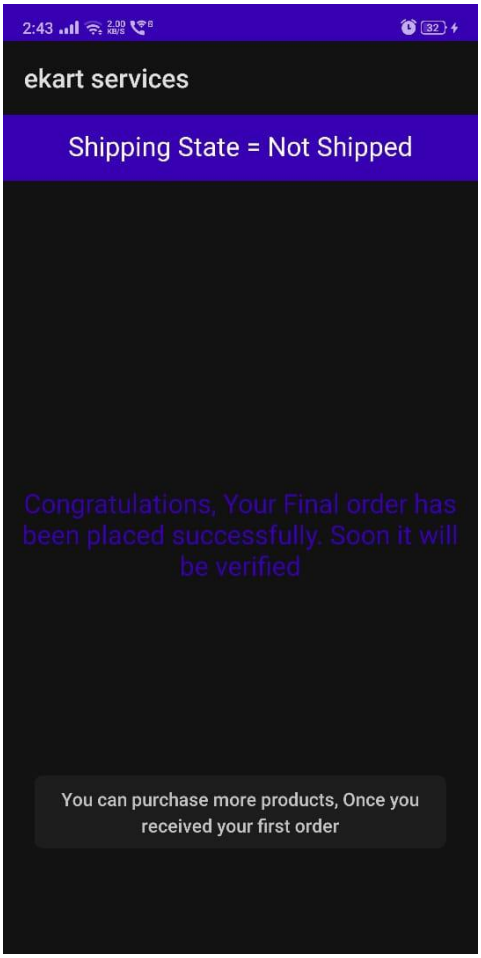
CART THE PRODUCT:

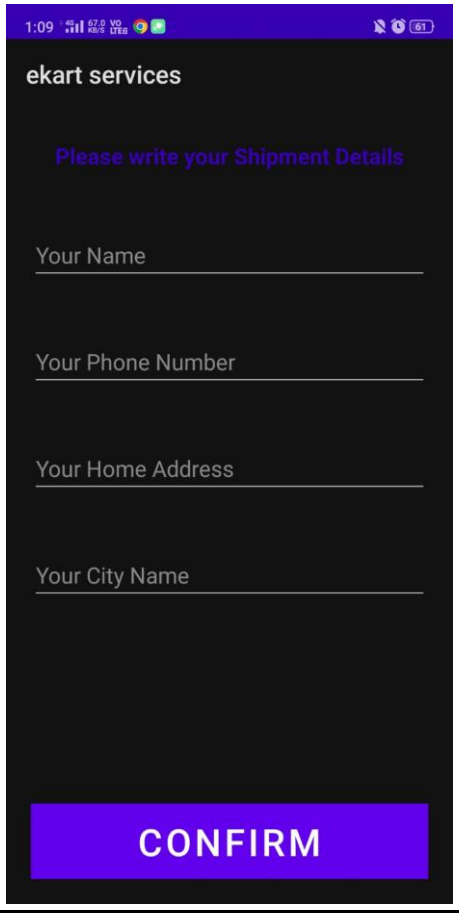
```
package com.ekart.shopping;

import android.content.DialogInterface;
import android.content.Intent;

import android.os.Bundle;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.ekart.shopping.Model.Cart;
import com.ekart.shopping.Prevalent.CartViewHolder;
import com.ekart.shopping.Prevalent.Prevalent;
import com.firebase.ui.database.FirebaseRecyclerAdapter;
import com.firebase.ui.database.FirebaseRecyclerOptions;
import com.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.database.DataSnapshot;
import com.google.firebase.database.DatabaseError;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;
import com.google.firebase.database.ValueEventListener;

public class CartActivity extends AppCompatActivity{
    private RecyclerView recyclerView;
    private RecyclerView.LayoutManager layoutManager;
    private Button NextProcessBtn;
    private TextView txtTotalAmount, txtMsg1;
    private int overTotalPrice=0;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_cart);
        recyclerView = findViewById(R.id.cart_list);
        recyclerView.setHasFixedSize(true);
        layoutManager = new LinearLayoutManager(this);
        recyclerView.setLayoutManager(layoutManager);
        NextProcessBtn = (Button)findViewById(R.id.next_btn);
        txtTotalAmount = (TextView)findViewById(R.id.total_price);
        txtMsg1 = (TextView)findViewById(R.id.msg1);
        NextProcessBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                txtTotalAmount.setText("Total Price =
```

```
Rs."+String.valueOf(overTotalPrice));
                Intent intent = new
Intent(CartActivity.this,ConfirmFinalOrderActivity.class);
                intent.putExtra("Total Price",
String.valueOf(overTotalPrice));
                startActivity(intent);
                finish();
            }
        });

    }

    @Override
    protected void onStart() {
        super.onStart();
        CheckOrderState();
        final DatabaseReference cartListRef =
FirebaseDatabase.getInstance().getReference().child("Cart List");
        FirebaseRecyclerOptions<Cart> options =
                new FirebaseRecyclerOptions.Builder<Cart>()
                        .setQuery(cartListRef.child("User view")

.child(Prevalent.currentOnlineUser.getPhone()).child("Products"),Cart.cl
ass).build();
        FirebaseRecyclerAdapter<Cart, CartViewHolder> adapter
                = new FirebaseRecyclerAdapter<Cart,
CartViewHolder>(options) {
            @Override
            protected void onBindViewHolder(@NonNull CartViewHolder
holder, int position, @NonNull final Cart model) {
                holder.txtProductQuantity.setText("Quantity =
"+model.getQuantity());
                holder.txtProductPrice.setText("Price =
"+model.getPrice()+" Rs.");
                holder.txtProductName.setText(model.getPname());
                int oneTyprProductTPrice =
((Integer.valueOf(model.getPrice())))*
Integer.valueOf(model.getQuantity());
                overTotalPrice = overTotalPrice + oneTyprProductTPrice;

                holder.itemView.setOnClickListener(new
View.OnClickListener() {
                    @Override
                    public void onClick(View view) {
                        CharSequence options[] = new CharSequence[]
                                {
                                        "Edit",
                                        "Remove"
                                };
                        AlertDialog.Builder builder = new
AlertDialog.Builder(CartActivity.this);
                        builder.setTitle("Cart Options: ");
                        builder.setItems(options, new
DialogInterface.OnClickListener() {
                            @Override
                            public void onClick(DialogInterface
dialogInterface, int i) {
```

```
                                if (i==0){
                                    Intent intent = new
Intent(CartActivity.this,ProductDetailsActivity.class);
                                    intent.putExtra("pid",
model.getPid());
                                    startActivity(intent);
                                }
                                if (i==1){
                                    cartListRef.child("User view")

.child(Prevalent.currentOnlineUser.getPhone())
                                            .child("Products")
                                            .child(model.getPid())
                                            .removeValue()
                                            .addOnCompleteListener(new
OnCompleteListener<Void>() {
                                                @Override
                                                public void
onComplete(@NonNull Task<Void> task) {
                                                    if
(task.isSuccessful()){

Toast.makeText(CartActivity.this,"Item removed
Successfully.",Toast.LENGTH_SHORT).show();
                                                        Intent intent =
new Intent(CartActivity.this,HomeActivity.class);

startActivity(intent);
                                                    }
                                                }
                                            });
                                }
                            }
                        });
                        builder.show();
                    }
                });
            }

            @NonNull
            @Override
            public CartViewHolder onCreateViewHolder(@NonNull ViewGroup
parent, int viewType) {
                View view =
LayoutInflater.from(parent.getContext()).inflate(R.layout.cart_items_lay
out,parent,false);
                CartViewHolder holder = new CartViewHolder(view);
                return holder;
            }
        };
        recyclerView.setAdapter(adapter);
        adapter.startListening();
    }
    private void CheckOrderState()
    {
        DatabaseReference ordersRef;
        ordersRef =
```

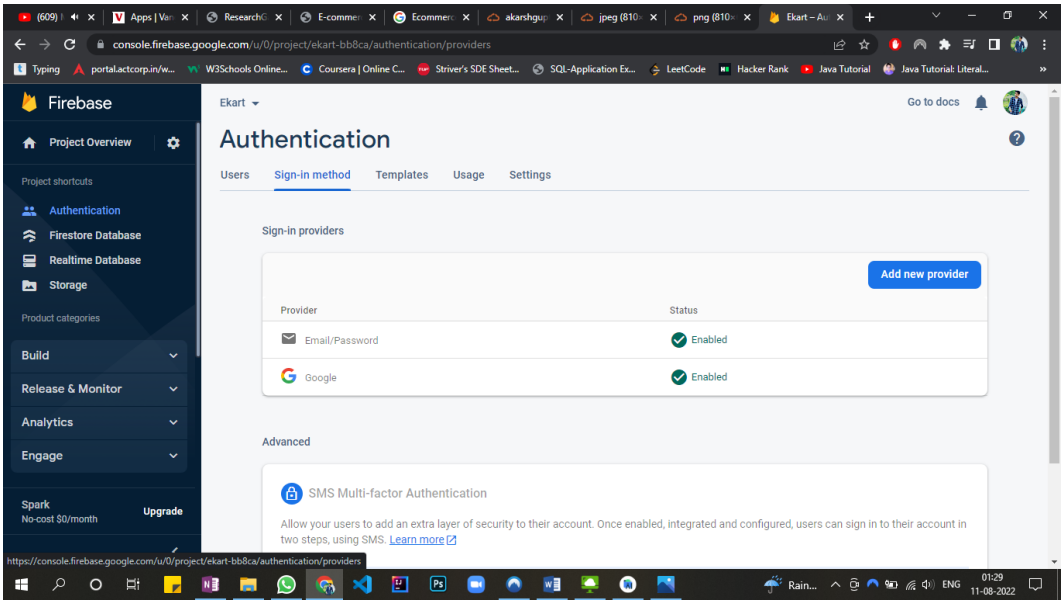
```
FirebaseDatabase.getInstance().getReference().child("Orders").child(Prev
alent.currentOnlineUser.getPhone());
        ordersRef.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(DataSnapshot dataSnapshot) {
                if (dataSnapshot.exists()){
                    String shippingState =
dataSnapshot.child("state").getValue().toString();
                    String userName =
dataSnapshot.child("name").getValue().toString();
                    if (shippingState.equals("Shipped")){
                        txtTotalAmount.setText("TDear "+userName+"\n
order is shipped successfully.");
                        recyclerView.setVisibility(View.GONE);
                        txtMsg1.setVisibility(View.VISIBLE);
                        txtMsg1.setText("Congratulations, Your Final
order has been shipped successfully. Soon you will received your order
at your door step.");
                        NextProcessBtn.setVisibility(View.GONE);
                        Toast.makeText(CartActivity.this,"You can
purchase more products, Once you received your first
order",Toast.LENGTH_SHORT).show();
                    }
                    else if (shippingState.equals("Not Shipped")){
                        txtTotalAmount.setText("Shipping State = Not
Shipped");
                        recyclerView.setVisibility(View.GONE);
                        txtMsg1.setVisibility(View.VISIBLE);

                        NextProcessBtn.setVisibility(View.GONE);
                        Toast.makeText(CartActivity.this,"You can
purchase more products, Once you received your first
order",Toast.LENGTH_SHORT).show();
                    }
                }
            }

            @Override
            public void onCancelled(DatabaseError databaseError) {

            }
        });
    }
}
```

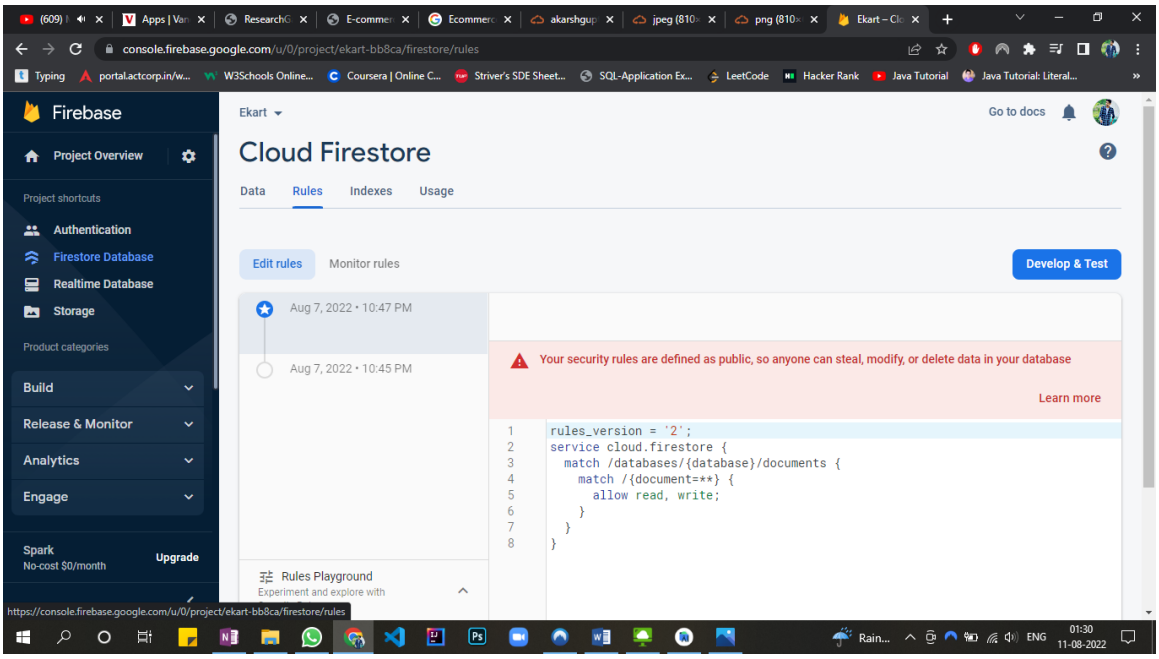

2:43
ekart services
Shipping State = Not Shipped
Congratulations, Your Final order has been placed successfully. Soon it will be verified
You can purchase more products, Once you received your first order

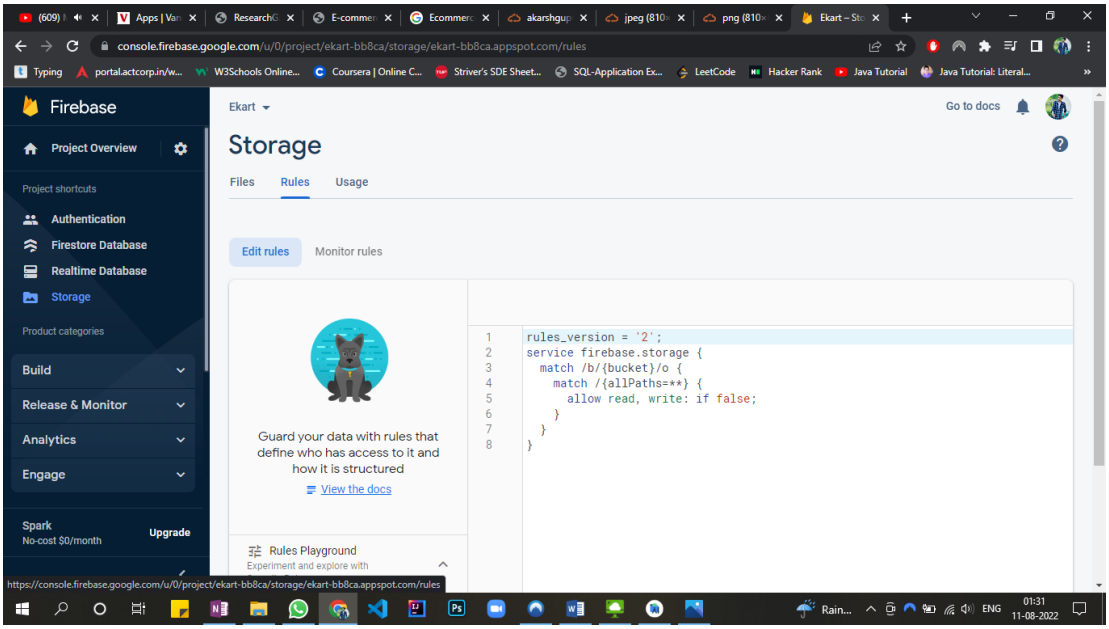

1:09
ekart services
Please write your Shipment Details
Your Name
Your Phone Number
Your Home Address
Your City Name
CONFIRM

DATABASE FOR LOGIN AND SIGNUP:

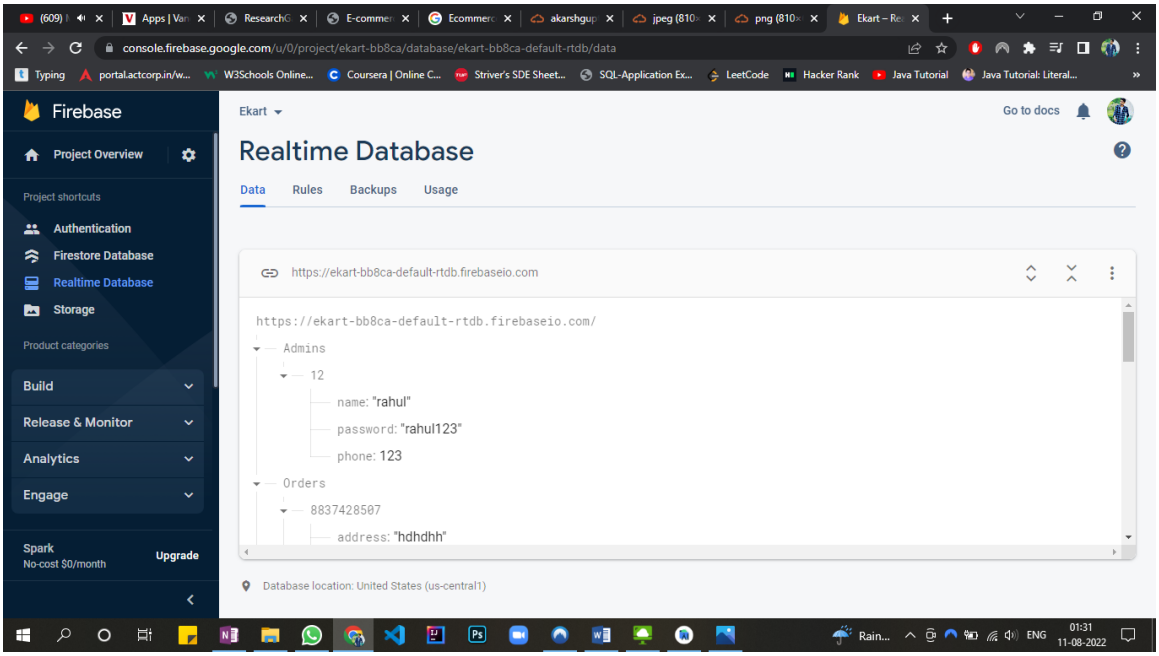
WE USED FIRE BASE FOR DATA BASE:



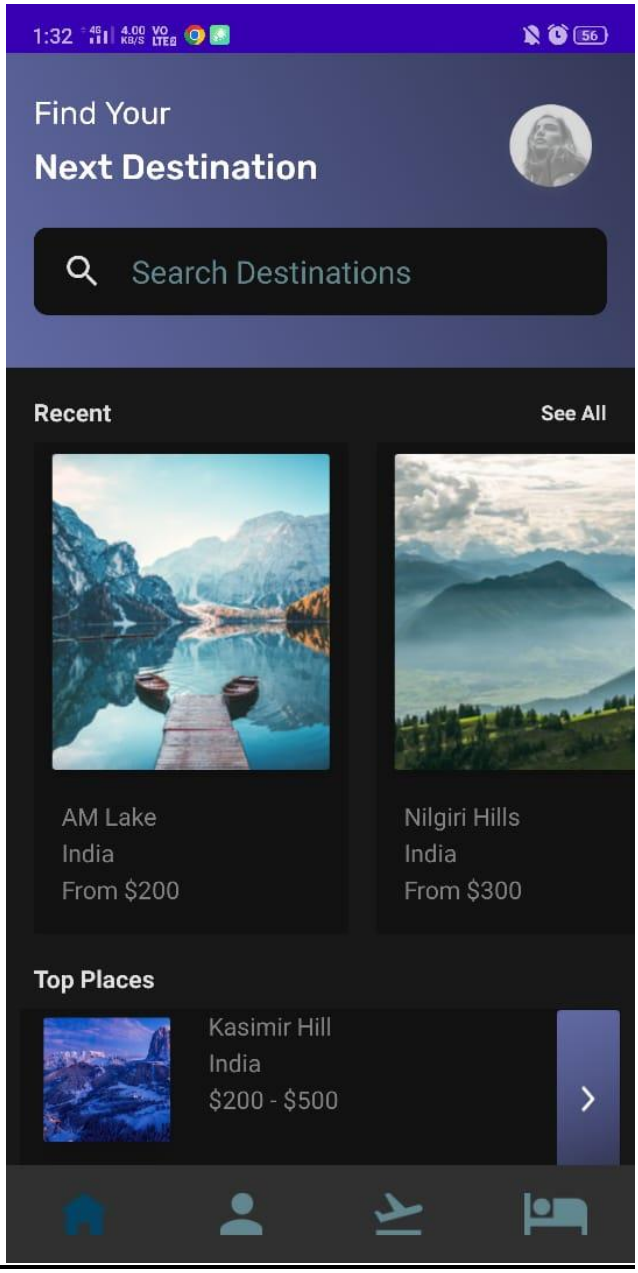




REAL TIME DATA STORED



FLUTTER UI:


1:32
Find Your
Next Destination
Search Destinations
Recent
See All
AM Lake
India
From $200
Nilgiri Hills
India
From $300
Top Places
Kasimir Hill
India
$200 - $500

THANKING YOU