

East West University

Course Title : Mobile Application Development

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Section : 01

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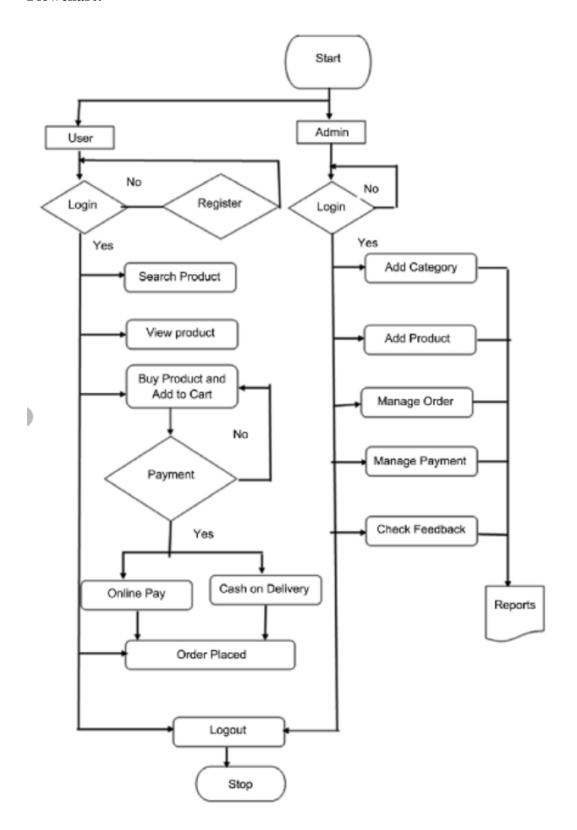
May 8,2022

Title: Srotodhara E-Commerce client App

Introduction: The term electronic commerce or e-commerce refers to any sort of business transaction that involves the transfer of information through the internet. It also means using the internet and the web for business transactions, commercial transactions, which typically involve the exchange of value across organizational or individual boundaries in return for products and services.

When we first saw a random e-commerce app where you could purchase your favorite items or necessary items very easily (just with a single click), it piqued our interest and thus we tried to make our own version of an e-commerce app named 'Srotodhara'. 'Srotodhara' is a client app where we use firebase for storing data and file.

Flowchart:



Component:

- 1. Relative layout
- 2. Edit Text
- 3. TextView
- 4. Contraint Layout
- 5. ImageView
- 6. App Bar Layout
- 7. Material Layout
- 8. Scrool View
- 9. Navigation View
- 10. Video View
- 11. Recycle VIew
- 12. Horizontal Scroll VIew
- 13. Slide View

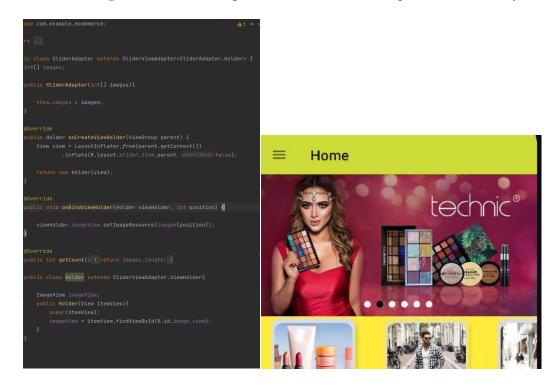
Activity:

- 1. MainActivity
- 2. BodyandBathActivity
- 3. ClothLandingActivity
- 4. CoatWomenActivty
- 5. CompleteProfileActivty
- 6. CosmeticActivity
- 7. DeliveryDetailActivity
- 8. EnterOTPActivity
- 9. FragnanceActivity
- 10. GrownWomenActivity
- 11. HairCareActivity
- 12. HijabActivity
- 13. JacketsWomenActivity
- 14. KurtisWomenActivity
- 15. LoginWithEmailActivity
- 16. LoginWithMobileActivity
- 17. MenCareActivity
- 18. OrdersHistoryActivity
- 19. PantsWomenActivity
- 20. PersonalCareActivity
- 21. RegisterWithMailActivity
- 22. RegisterWithMobileActivity
- 23. SareeActivity
- 24. ShalwarKamizActivity
- 25. ShortsWomenActivity
- 26. SkinCareActivity
- 27. SkirtsActivity
- 28. SweaterWomenActivity
- 29. TopWomenActivity
- 30. UnderWearWomenActivity
- 31. WelcomeScreenActivity

32. WomenActivity2

Adapter:

1. SliderAdapter: In Slider Adapter we will slide our images in Mainactivity.



2. **FirestoreRecycleAdapter:** This is one type of RecyclerView adapters offered by the FirebaseUI for Firestore. It binds the results of a query to a recyclerview while responding to all the real-time events. This Adapter is implemented in almost all class were recycleview is used.

```
implementation "com.firebaseui:firebase-ui-firestore:8.0.1"
```

Include the Firebase UI library as a dependency in your grade file

```
query = fstore.collection( collectionPath: "coat_women").orderBy( field: "Price", Query.Direction.ASCENDING);
FirestoreRecyclerOptions
cosmeticModelClass>()
    .setQuery(query,cosmeticModelClass.class).build();
```

we use query to read data from our firebase.

Finally, we use Adapter to run in recycle View.

```
recyclerView.setHasFixedSize(true);
recyclerView.setLayoutManager(new LinearLayoutManager(context: this));
recyclerView.setAdapter(adapter);
toolbar.setNavigationOnClickListener(new View.OnClickListener() {
```

```
}

@Override
public void onStart() {
    super.onStart();
    adapter.startListening();
}

@Override
public void onStop() {
    super.onStop();
    adapter.stopListening();
}
```

The onStart() call makes the activity visible to the user, as the app prepares for the activity to enter the foreground and become interactive. here we calling adapter to show data in recycle view so that we can see the list and able to click the product

Object Class:

Cosmetic Model is used to load data of object from firestore database and call bythe adapter class.

```
public class posmeticModelClass()
   String Brand, Capacity, Description, PID, Price, Title;

public cosmeticModelClass() {
   }

public cosmeticModelClass() {
    public cosmeticModelClass() {
        Brand = brand;
        Capacity = capacity;
        Description = description;
        this.pID = PID;
        Price = price;
        Title = title;
   }

public String getBrand() { return Brand; }

public String getCapacity() { return Capacity; }

public void setCapacity(String capacity) { Capacity = capacity; }

public String getDescription() { return Description; }

public String getPID() { return PID; }

public void setPID(String pID) { this.PID = PID; }

public void setPID(String pID) { this.PID = PID; }

public String getPice() { return Price; }

public String getTitle() { return Title; }

public String getTitle() { return Title; }

public void setPIC() { return Title; }

public void setPIC() { return Title; }

public void setTitle(String title) { Title = title; }

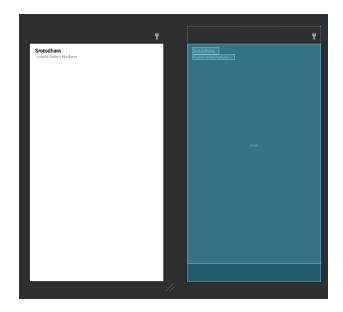
O Projectupdate recor
Android Gradle Plugi
```

AndroidManifest:

Here our necessary permission and activity class is declared in it.

nav_header.xml:

here we constraint layout and text view and reletive layout is used



Cosmetic_layout.xml: here we design list view item. it will use to call in recycle view as a list where we will choose our product.from adapter it will put image and data from firebase storage and firestore.

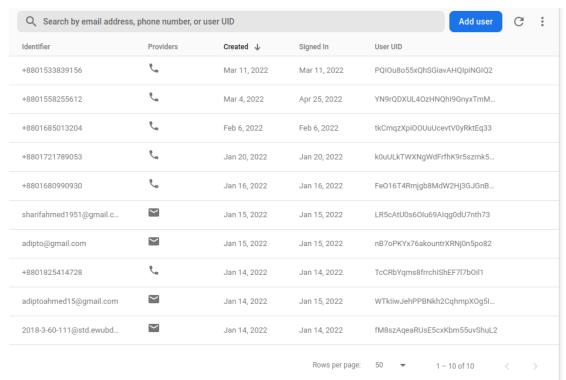


RegisterWithMobileActivity/LoginWithMobileActivity: in this activity user will Register or Login with their mobile number using firebase AUth feature. if mobile is valid it will go to OTPActivity page for Final Registration and Login. also it passes Mobile number to that activity.



LoginOTPActivity: Here user will Varify his authentication BY giving OTP. It will check OTP to firebase Auth and save info in firestore if needed. here OTP will be check.

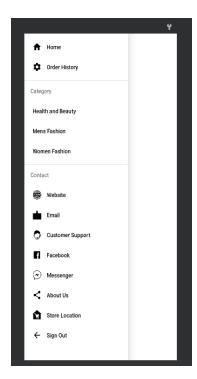
here are the Register User





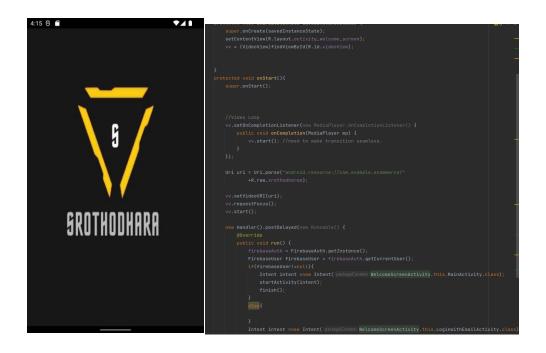
my_navigation_view:

In this navigation bar, it is connected with all activity. here we use navigation bar for navigate . here we use intent to call other apps and other activity.

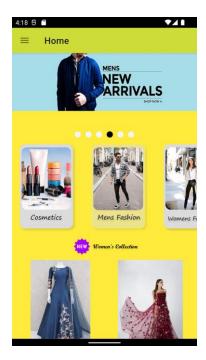


Welcome Activity:

In this Activity ,we play srotodhara.mp4 as a animation for few second. then it will call **LoginWithEmail** will call. if the user is already login. then login authentication will be check in **LoginWithEmail** and it if user is login then it will open **MainActivity.**



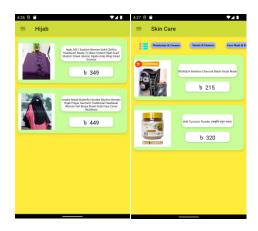
MainActivity: Here we use drawerlayout,LinearLayout,ScrollView. Also Ad and offer picture load from Firebase .



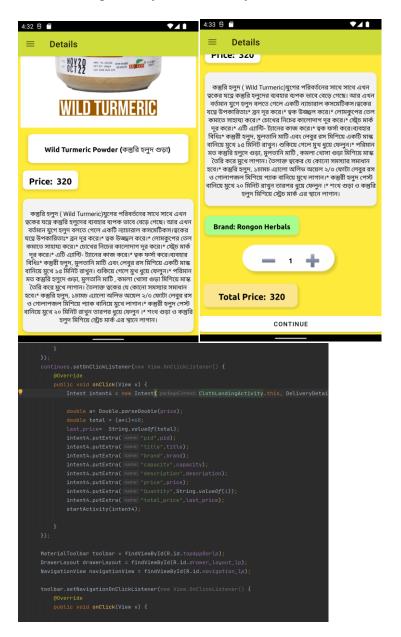
Here when we click Cosmetic,men Fashion , Women Fashion it will open another activity from that we can able to see our product.



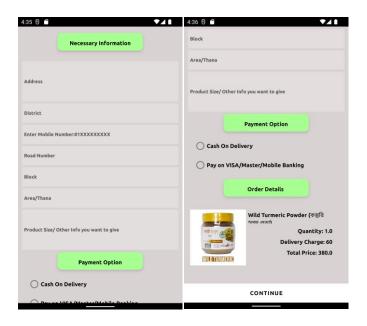
From that we can click on of sub Category to show item



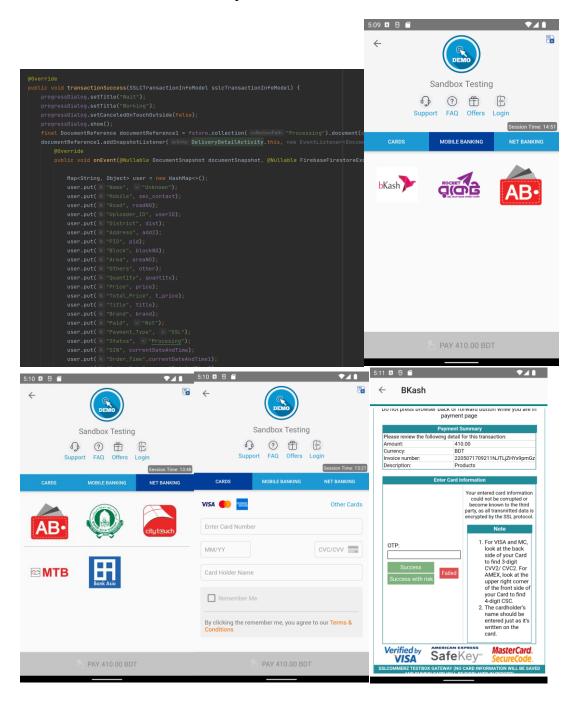
when we click on item, it will take detail activity and some data pass to ClothLandingActivity(detail activity) in intent



when we click on continue, it will take to payment and information page (Delivery DetailActivity)



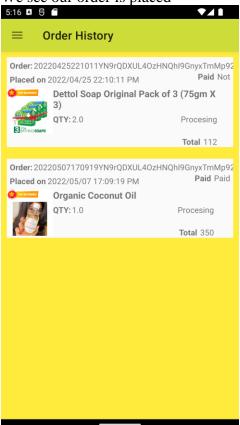
After CLicking on continue if online payment is selected, it will take to SSL commerce page that is added to our apps as library. and after successful transaction ,data will be store in firestore in order history. For using SSL Commerce service, We need to create developer account in ssl commerce.





In Order history:

We see our order is placed



Conclusion: Today's business must always strive to create the next best thing that consumers will want because consumers continue to desire their products, services etc. to continuously be better, faster and cheaper. E-commerce app is continuously progressing and is becoming more and more important to business as technology continues to advance and is something that should be taken advantage of and implemented. Benefits of e-commerce app are too many to describe, like creating more opportunities for profit and advancements for business while creating more options for the consumers. However, e-commerce app has its disadvantages too including consumer uncertainties, scam ads, site crash, lack of privacy, poor implementation, credit card fraud etc. E-commerce app has a lot of room for growth. In future there might be a scope were through an e-commerce app a person can do more things besides purchasing items.