

AIR UNIVERSITY OF AEROSPACE AND AVIATION CAMPUS KAMRA



MOBILE COMPUTING FINAL PROJECT

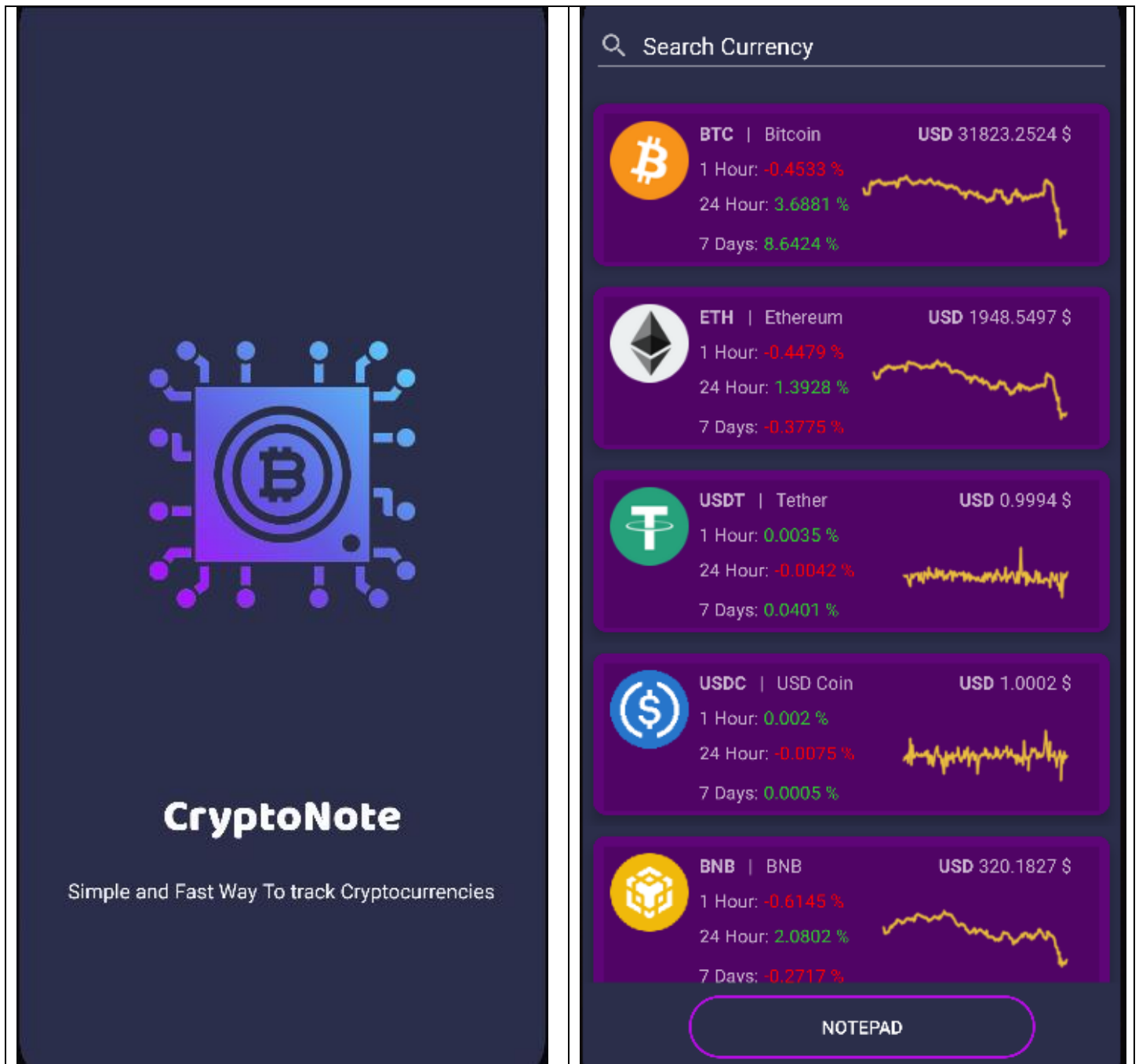
NAME: Muhammad Moez Khan

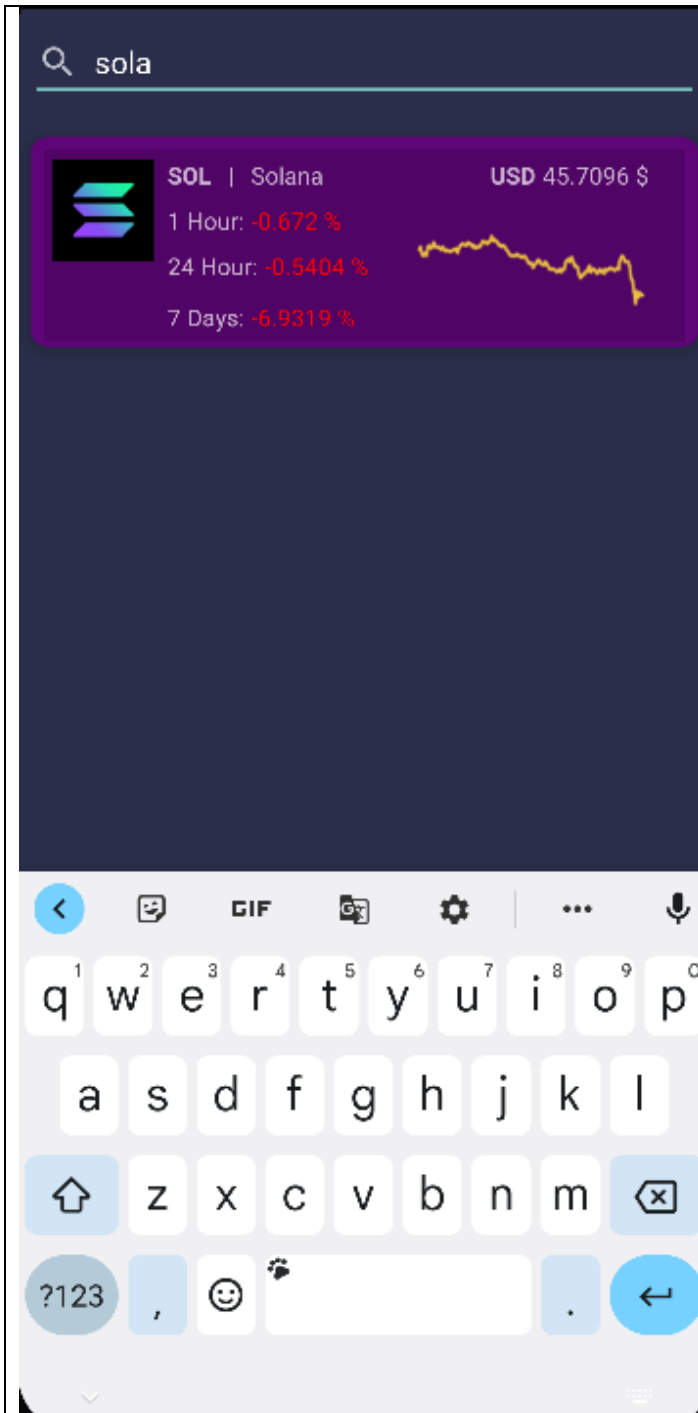
ROLL: 205328

Section: BSCS 4B

SUBMITTED TO Sir Kamran

Layouts





Verify its You



BIOMETRIC LOGIN



Use Bio Metric to log in



UNLOCK USING PIN

PIN

EMAIL



ENTER 5 DIGIT PIN CODE

1

2

3

4

5

6

7

8

9



0



Login



Email



Password

[Forget Password?](#)

LOGIN

[Create new Account?](#)

OR



Notes App

Welcome To CryptoNote

This is My Final Lab Project Of Mobile Application development

M. Moez. Khan
205328

Jun 1, 2022 12:01:11 AM



Note Saved

ADD NEW NOTE

<div><h2>CryptoNote</h2><div><p>Welcome To CryptoNote</p><p>This is My Final Lab Project Of Mobile Application development</p><p>M. Moeez. Khan 205328</p></div><div>SAVE</div></div>	

XML CODING SECTION

Splash Screen xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
xmlns:app="http://schemas.android.com/apk/res-auto"
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:background="@color/relative_bg"
android:layout_height="match_parent"
tools:context=".MainActivity">

    <ImageView
        android:id="@+id/icon"
        android:layout_width="261dp"
        android:layout_height="273dp"
        android:layout_marginTop="228dp"
        android:contentDescription="TODO"
        android:paddingRight="32dp"
        android:src="@drawable/gallery"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.606"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="177dp"
        android:layout_marginEnd="177dp"
        android:layout_marginBottom="168dp"
        android:fontFamily="@font/baloo_bhai"
        android:text="CryptoNote"
        android:textColor="#FDFDFD"
        android:textSize="35sp"
        android:textStyle="normal"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent" />

    <TextView
        android:id="@+id/textView1"

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="110dp"
        android:layout_marginTop="18dp"
        android:layout_marginEnd="111dp"
        android:text="Simple and Fast Way To track Cryptocurrencies"
        android:textColor="#FDFDFD"
        android:textSize="16sp"
        android:textStyle="normal"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

```



```

        android:layout_height="wrap_content"
        android:text="BTC"
        android:textStyle="bold" />

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="10dp"
    android:layout_marginBottom="8dp"
    android:text="|" />

<TextView
    android:id="@+id/coinName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="10dp"
    android:layout_marginBottom="8dp"
    android:text="Bitcoin" />

</LinearLayout>

<LinearLayout
    android:id="@+id/section_price"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignParentRight="true"
    android:orientation="horizontal">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="4dp"
        android:layout_marginBottom="8dp"
        android:text="USD"
        android:textStyle="bold"
        />

    <TextView
        android:id="@+id/priceUsd"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginEnd="16dp"
        android:layout_marginRight="16dp"
        android:layout_marginBottom="8dp"
        android:text="$"
        /> / android:textColor="#32cd32" />

</LinearLayout>

<LinearLayout
    android:id="@+id/h1"
    android:layout_width="150dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/section_name"

    android:layout_alignParentLeft="true"
    android:orientation="horizontal">

```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="4dp"

    android:layout_marginBottom="8dp"
    android:text="1 Hour:" />
```

```
<TextView
    android:id="@+id/oneHour"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="16dp"
    android:layout_marginRight="16dp"
    android:layout_marginBottom="8dp"
    android:text="" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="152dp"
    android:layout_height="wrap_content"
    android:layout_below="@id/h1"
    android:layout_alignParentLeft="true"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="4dp"
    android:layout_marginBottom="8dp"
    android:text="24 Hour:" />
```

```
<TextView
    android:id="@+id/twentyFourHour"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="16dp"
    android:layout_marginRight="16dp"
    android:layout_marginBottom="8dp"
    android:text="" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="152dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/section_price"
    android:layout_alignParentRight="true"
    android:layout_marginTop="57dp"
    android:layout_marginRight="158dp"
    android:orientation="horizontal">
```

```
<TextView
    android:layout_width="wrap_content"
```

```

        android:layout_height="wrap_content"
        android:layout_marginEnd="4dp"
        android:layout_marginBottom="8dp"
        android:text="7 Days:" />

        <TextView
            android:id="@+id/sevenDay"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_marginEnd="16dp"
            android:layout_marginRight="16dp"
            android:layout_marginBottom="8dp"
            android:text="" />

    </LinearLayout>

    <ImageView
        android:id="@+id/graph"
        android:layout_width="90dp"
        android:layout_height="57dp"
        android:layout_below="@+id/section_price"
        android:layout_alignStart="@+id/section_price"
        android:layout_alignParentEnd="true"
        android:layout_marginStart="-48dp"
        android:layout_marginTop="10dp"
        android:layout_marginEnd="14dp"
        tools:srcCompat="@tools:sample/backgrounds/scenic" />

</RelativeLayout>

</LinearLayout>

</androidx.cardview.widget.CardView>

</RelativeLayout>

```

CURRENCY RECYCLEVIEW

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/root"
    android:background="@color/relative_bg"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <EditText
        android:id="@+id/idEdtSearch"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"

```

```

        android:layout_marginTop="8dp"
        android:layout_marginEnd="8dp"
        android:layout_marginBottom="8dp"
        android:drawableLeft="?android:attr/actionModeWebSearchDrawable"
        android:drawablePadding="10dp"
        android:focusable="auto"
        android:hint="Search Currency"
        android:minHeight="48dp"
        android:textColor="@color/white"
        android:textColorHint="@color/white" />

<!--recycler view for displaying the list of currencies-->

<!--progress bar for loading indicator-->

<androidx.recyclerview.widget.RecyclerView
    android:id="@+id/idEdtCurrency"
    android:layout_width="match_parent"
    android:layout_height="680dp"
    android:layout_below="@+id/idEdtSearch"
    android:layout_marginTop="4dp" />

<ProgressBar
    android:id="@+id/idPBLLoading"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignTop="@+id/idEdtCurrency"
    android:layout_alignParentStart="true"
    android:layout_alignParentEnd="true"
    android:layout_marginStart="181dp"
    android:layout_marginTop="310dp"
    android:layout_marginEnd="182dp" />

<Button
    android:id="@+id/button4"
    android:layout_width="265dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/idEdtCurrency"
    android:layout_alignParentStart="true"
    android:layout_alignParentEnd="true"
    android:layout_marginStart="81dp"
    android:layout_marginTop="10dp"
    android:layout_marginEnd="65dp"
    android:background="@drawable/circle_btn"
    android:text="NOTEPAD" />

</RelativeLayout>

```

NOTEPAD REGISTRATION

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"

```

```

android:layout_width="match_parent"
android:layout_height="match_parent"
android:background="@color/relative_bg"
>

<View
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    />
<!--      android:background="#97090909"/>-->

<ScrollView
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fillViewport="true"
    tools:layout_editor_absoluteX="-16dp"
    tools:layout_editor_absoluteY="-70dp">

    <androidx.constraintlayout.widget.ConstraintLayout

        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <androidx.constraintlayout.widget.ConstraintLayout

            android:layout_width="match_parent"
            android:layout_height="match_parent"
            tools:layout_editor_absoluteX="0dp"
            tools:layout_editor_absoluteY="-16dp">

            <TextView
                android:id="@+id/textView"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_marginTop="100dp"
                android:fontFamily="@font/baloo_bhai"
                android:text="Registration"
                android:textColor="@color/white"
                android:textSize="44sp"
                android:textStyle="bold"
                app:layout_constraintEnd_toEndOf="parent"
                app:layout_constraintStart_toStartOf="parent"
                app:layout_constraintTop_toTopOf="parent" />

            <EditText
                android:id="@+id/email_in"
                android:layout_width="361dp"
                android:layout_height="52dp"
                android:layout_marginStart="24dp"
                android:layout_marginEnd="24dp"
                android:background="@drawable/input"
                android:drawableLeft="@drawable/ic_baseline_email_24"
                android:drawablePadding="10dp"
                android:ems="10"
                android:hint="Email"
                android:inputType="textEmailAddress"
                android:paddingLeft="20dp"
                android:paddingTop="13dp"
                android:paddingRight="20dp"

```

```

android:paddingBottom="13dp"
android:textColor="@color/white"
android:textColorHint="@color/white"
app:layout_constraintBottom_toTopOf="@+id/password"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="1.0"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView"
app:layout_constraintVertical_bias="0.604" />

```

<EditText

```

android:id="@+id/password"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="100dp"
android:layout_marginEnd="24dp"
android:background="@drawable/input"
android:drawableLeft="@drawable/ic_baseline_security_24"
android:drawablePadding="10dp"
android:ems="10"
android:hint="Pincode"
android:inputType="numberPassword"
android:paddingLeft="20dp"
android:paddingTop="13dp"
android:paddingRight="20dp"
android:paddingBottom="13dp"
android:textColor="@color/white"
android:textColorHint="@color/white"
app:layout_constraintEnd_toEndOf="@+id/email_in"
app:layout_constraintHorizontal_bias="0.68"
app:layout_constraintStart_toStartOf="@+id/email_in"
app:layout_constraintTop_toBottomOf="@+id/textView" />

```

<EditText

```

android:id="@+id/password2"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:layout_marginStart="24dp"
android:layout_marginTop="164dp"
android:layout_marginEnd="24dp"
android:background="@drawable/input"
android:drawableLeft="@drawable/ic_baseline_security_24"
android:drawablePadding="10dp"
android:ems="10"
android:hint="Confirm Password"
android:inputType="numberPassword"
android:paddingLeft="20dp"
android:paddingTop="13dp"
android:paddingRight="20dp"
android:paddingBottom="13dp"
android:textColor="@color/white"
android:textColorHint="@color/white"
app:layout_constraintEnd_toEndOf="@+id/email_in"
app:layout_constraintHorizontal_bias="0.52"
app:layout_constraintStart_toStartOf="@+id/email_in"
app:layout_constraintTop_toBottomOf="@+id/textView" />

```

<Button

```

        android:id="@+id/register"
        android:layout_width="363dp"
        android:layout_height="51dp"
        android:layout_marginStart="24dp"
        android:layout_marginTop="34dp"
        android:layout_marginEnd="24dp"
        android:background="@drawable/input"
        android:text="Register"
        android:textColor="@color/white"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/password2" />

<TextView
    android:id="@+id/already"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="32dp"
    android:text="Already have Account?"
    android:textColor="@color/white"
    android:textSize="20sp"
    app:layout_constraintEnd_toEndOf="@+id/register"
    app:layout_constraintHorizontal_bias="0.516"
    app:layout_constraintStart_toStartOf="@+id/register"
    app:layout_constraintTop_toBottomOf="@+id/register" />

</androidx.constraintlayout.widget.ConstraintLayout>

</androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>

```

NOTEPAD LOGIN CHOSE

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/relative_bg"
    tools:context=".MainActivity2">

    <TextView
        android:id="@+id/setup_password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="177dp"
        android:layout_marginTop="40dp"
        android:layout_marginEnd="177dp"
        android:fontFamily="@font/baloo_bhai"
        android:text="Verify its You"
        android:textColor="#FDFDFD"

```

```
        android:textSize="30sp"
        android:textStyle="normal"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

<ImageView
    android:id="@+id/icon"
    android:layout_width="261dp"
    android:layout_height="273dp"
    android:layout_marginTop="144dp"
    android:paddingRight="32dp"
    android:src="@drawable/padlock"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.626"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<TextView
    android:id="@+id/finger_print"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="50dp"
    android:layout_marginTop="512dp"
    android:layout_marginRight="50dp"
    android:background="#30ffffff"
    android:drawableLeft="@drawable/fingerprint_dialog_error"
    android:drawablePadding="20dp"
    android:padding="15dp"
    android:text="Use Bio Metric to log in"
    android:textColor="@color/white"
    android:textColorHint="@color/white"
    android:textSize="16sp"
    app:drawableTint="#F6F4F4"
    app:layout_constraintCircleRadius="100dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.494"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

</TextView>

<Switch
    android:id="@+id/switch1"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="24dp"
    android:gravity="center"
    android:minWidth="48dp"
    android:minHeight="48dp"
    android:paddingLeft="5dp"
    android:textColor="#E4E4E4"
    android:checked="false"
    app:layout_constraintBottom_toBottomOf="@+id/finger_print"
    app:layout_constraintEnd_toEndOf="@+id/finger_print"
    app:layout_constraintTop_toTopOf="@+id/finger_print"
    app:layout_constraintVertical_bias="0.518"
```



```
tools:ignore="UseSwitchCompatOrMaterialXml" />

<TextView
    android:id="@+id/finger_print_text"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="177dp"
    android:layout_marginTop="464dp"
    android:layout_marginEnd="177dp"
    android:fontFamily="@font/baloo_bhai"
    android:text="BIOMETRIC LOGIN"
    android:textColor="#FDFDFD"
    android:textSize="22sp"
    android:textStyle="normal"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<TextView
    android:id="@+id/password_type"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginStart="177dp"
    android:layout_marginTop="592dp"
    android:layout_marginEnd="177dp"
    android:fontFamily="@font/baloo_bhai"
    android:text="UNLOCK USING PIN"
    android:textColor="#FDFDFD"
    android:textSize="22sp"
    android:textStyle="normal"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.503"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<Button
    android:id="@+id/button"
    android:layout_width="101dp"
    android:layout_height="48dp"
    android:layout_marginStart="92dp"
    android:layout_marginTop="27dp"
    android:layout_marginBottom="48dp"

    android:background="@drawable/circle_btn"
    android:onClick="pin"
    android:text="PIN"
    android:textColor="#FFFFFF"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/password_type"
    app:layout_constraintVertical_bias="0.0" />

<Button
    android:id="@+id/button3"
    android:layout_width="101dp"
    android:layout_height="48dp"
    android:layout_marginTop="27dp"
    android:layout_marginEnd="24dp"
    android:background="@drawable/circle_btn"
```

```

        android:onClick="email"
        android:text="Email"
        app:layout_constraintEnd_toEndOf="@+id/finger_print"
        app:layout_constraintTop_toBottomOf="@+id/password_type" />

```

```

</androidx.constraintlayout.widget.ConstraintLayout>

```

NOTEPAD PIN LOGIN

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center_horizontal"
    android:background="@color/purple_500"
    android:orientation="vertical">

    <RelativeLayout
        android:layout_width="84dp"
        android:layout_height="84dp"
        android:layout_marginTop="60dp"
        android:background="@drawable/bg_circle">

        <ImageView
            android:id="@+id/iv_lock"
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerInParent="true"
            app:srcCompat="@drawable/lock"/>

        <ImageView
            android:id="@+id/iv_ok"
            android:layout_width="32dp"
            android:layout_height="32dp"
            android:layout_centerInParent="true"
            android:alpha="0"
            android:scaleX="0"
            android:scaleY="0"
            app:srcCompat="@drawable/ic_check_bold_24dp"
            app:tint="#66e75d" />
    </RelativeLayout>

    <TextView
        android:id="@+id/ab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center_horizontal"
        android:layout_marginTop="16dp"
        android:text="ENTER 5 DIGIT PIN CODE "
        android:fontFamily="@font/baloo_bhai"
        android:letterSpacing="0.02"
        android:textColor="#F8F8F8"
        android:textSize="16sp"/>

```

```

<FrameLayout
    android:layout_width="wrap_content"
    android:layout_height="18dp"
    android:layout_marginTop="32dp">

    <View
        android:id="@+id/cursor"
        android:layout_width="2dp"
        android:layout_height="match_parent"
        android:background="#fff"
        android:visibility="invisible"/>

    <LinearLayout
        android:id="@+id/layout_psd"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android:gravity="center"
        android:orientation="horizontal">
    </LinearLayout>
</FrameLayout>

<TextView
    android:id="@+id/space"
    android:layout_width="match_parent"
    android:layout_height="0dp"
    android:text="- - - - -"
    android:textColor="@color/white"
    android:textSize="35sp"
    android:gravity="center"
    android:layout_weight="1"/>

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="312dp"
    android:background="@drawable/lock_bg_white"
    android:padding="48dp">

    <TextView
        android:id="@+id/number1"
        style="@style/NumberInPasscode"
        android:layout_alignParentLeft="true"
        android:text="1" />

    <TextView
        android:id="@+id/number2"
        style="@style/NumberInPasscode"
        android:layout_centerHorizontal="true"
        android:text="2" />

    <TextView
        android:id="@+id/number3"
        style="@style/NumberInPasscode"
        android:layout_alignParentRight="true"
        android:text="3" />

    <TextView
        android:id="@+id/number4"

```

```
        style="@style/NumberInPasscode"
        android:layout_alignParentLeft="true"
        android:layout_below="@id/number1"
        android:text="4"
    />

    <TextView
        android:id="@+id/number5"
        style="@style/NumberInPasscode"
        android:layout_below="@id/number1"
        android:layout_centerHorizontal="true"
        android:text="5"/>

    <TextView
        android:id="@+id/number6"
        style="@style/NumberInPasscode"
        android:layout_alignParentRight="true"
        android:layout_below="@id/number1"
        android:text="6"/>

    <TextView
        android:id="@+id/number7"
        style="@style/NumberInPasscode"
        android:layout_alignParentLeft="true"
        android:layout_below="@id/number4"
        android:text="7"/>

    <TextView
        android:id="@+id/number8"
        style="@style/NumberInPasscode"
        android:layout_below="@id/number4"
        android:layout_centerHorizontal="true"
        android:text="8"/>

    <TextView
        android:id="@+id/number9"
        style="@style/NumberInPasscode"
        android:layout_alignParentRight="true"
        android:layout_below="@id/number4"
        android:text="9"/>

    <ImageView
        android:id="@+id/numberB"
        style="@style/NumberInPasscode"
        android:layout_below="@id/number7"
        android:layout_alignParentRight="true"
        android:scaleType="centerInside"
        app:srcCompat="@drawable/backspace"
        app:tint="#FF8A8A" />

    <TextView
        android:id="@+id/number0"
        style="@style/NumberInPasscode"
        android:layout_below="@id/number7"
        android:layout_centerHorizontal="true"
        android:text="0" />

    <ImageView
        android:id="@+id/numberOK"
```

```

        style="@style/NumberInPasscode"
        android:layout_below="@id/number7"
        android:layout_alignParentLeft="true"
        android:scaleType="centerInside"
        app:srcCompat="@drawable/ic_check_bold_24dp"
        app:tint="#FF8A8A8A" />

</RelativeLayout>

</LinearLayout>

```

NOTEPAD EMAIL LOGIN

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity"
    android:background="@color/relative_bg">

    <View
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        />

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:fillViewport="true"
        tools:layout_editor_absoluteX="-16dp"
        tools:layout_editor_absoluteY="-70dp">

        <androidx.constraintlayout.widget.ConstraintLayout

            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <androidx.constraintlayout.widget.ConstraintLayout

                android:layout_width="match_parent"
                android:layout_height="match_parent"
                tools:layout_editor_absoluteX="0dp"
                tools:layout_editor_absoluteY="-16dp">

                <TextView
                    android:id="@+id/textView"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_marginTop="100dp"
                    android:fontFamily="@font/baloo_bhai"
                    android:text="Login"

```

```

        android:textColor="@color/white"
        android:textSize="44sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

```

<EditText

```

        android:id="@+id/email_in"
        android:layout_width="361dp"
        android:layout_height="52dp"
        android:layout_marginStart="24dp"
        android:layout_marginEnd="24dp"
        android:background="@drawable/input"
        android:drawableLeft="@drawable/ic_baseline_email_24"
        android:drawablePadding="10dp"
        android:ems="10"
        android:hint="Email"
        android:inputType="textEmailAddress"
        android:paddingLeft="20dp"
        android:paddingTop="13dp"
        android:paddingRight="20dp"
        android:paddingBottom="13dp"
        android:textColor="@color/white"
        android:textColorHint="@color/white"
        app:layout_constraintBottom_toTopOf="@+id/password"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.604" />

```

<EditText

```

        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginStart="24dp"
        android:layout_marginTop="100dp"
        android:layout_marginEnd="24dp"
        android:background="@drawable/input"
        android:drawableLeft="@drawable/ic_baseline_security_24"
        android:drawablePadding="10dp"
        android:ems="10"
        android:hint="Password"
        android:inputType="numberPassword"
        android:paddingLeft="20dp"
        android:paddingTop="13dp"
        android:paddingRight="20dp"
        android:paddingBottom="13dp"
        android:textColor="@color/white"
        android:textColorHint="@color/white"
        app:layout_constraintEnd_toEndOf="@+id/email_in"
        app:layout_constraintHorizontal_bias="0.68"
        app:layout_constraintStart_toStartOf="@+id/email_in"
        app:layout_constraintTop_toBottomOf="@+id/textView" />

```

<TextView

```

        android:id="@+id/forget"
        android:layout_width="wrap_content"

```

```

        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:text="Forget Password?"
        android:textColor="@color/white"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="@+id/password"
        app:layout_constraintTop_toBottomOf="@+id/password" />

```

<Button

```

        android:id="@+id/register"
        android:layout_width="356dp"
        android:layout_height="48dp"
        android:layout_marginTop="16dp"
        android:background="@drawable/input"
        android:text="Login"
        android:textColor="@color/white"
        app:layout_constraintEnd_toEndOf="@+id/password"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="@+id/password"
        app:layout_constraintTop_toBottomOf="@+id/forget" />

```

<TextView

```

        android:id="@+id/already"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:text="Create new Account?"
        android:textColor="@color/white"
        android:textSize="20sp"
        app:layout_constraintEnd_toEndOf="@+id/register"
        app:layout_constraintHorizontal_bias="0.524"
        app:layout_constraintStart_toStartOf="@+id/register"
        app:layout_constraintTop_toBottomOf="@+id/register" />

```

<TextView

```

        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="36dp"
        android:text="OR"
        android:textColor="@color/white"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/already" />

```

<View

```

        android:id="@+id/view2"
        android:layout_width="0dp"
        android:layout_height="2dp"
        android:layout_marginStart="16dp"
        android:background="@color/white"
        app:layout_constraintBottom_toBottomOf="@+id/textView4"
        app:layout_constraintEnd_toEndOf="@+id/register"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toEndOf="@+id/textView4"
        app:layout_constraintTop_toTopOf="@+id/textView4"
        app:layout_constraintVertical_bias="0.411" />

```

```

<View
    android:id="@+id/view3"
    android:layout_width="0dp"
    android:layout_height="2dp"
    android:layout_marginEnd="16dp"
    android:background="@color/white"
    app:layout_constraintBottom_toBottomOf="@+id/textView4"
    app:layout_constraintEnd_toStartOf="@+id/textView4"
    app:layout_constraintHorizontal_bias="0.0"
    app:layout_constraintStart_toStartOf="@+id/register"
    app:layout_constraintTop_toTopOf="@+id/textView4"
    app:layout_constraintVertical_bias="0.411" />

<ImageView
    android:id="@+id/google"
    android:layout_width="50dp"
    android:layout_height="50dp"
    android:layout_marginEnd="8dp"
    app:layout_constraintBottom_toBottomOf="@+id/imageView5"
    app:layout_constraintEnd_toStartOf="@+id/imageView2"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintHorizontal_chainStyle="packed"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="@+id/imageView5"
    app:srcCompat="@drawable/go" />

<ImageView
    android:id="@+id/imageView2"
    android:layout_width="50dp"
    android:layout_height="50dp"
    app:layout_constraintBottom_toBottomOf="@+id/imageView5"
    app:layout_constraintEnd_toStartOf="@+id/imageView5"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/google"
    app:layout_constraintTop_toTopOf="@+id/imageView5"
    app:srcCompat="@drawable/fa" />

<ImageView
    android:id="@+id/imageView4"
    android:layout_width="50dp"
    android:layout_height="50dp"
    android:layout_marginEnd="8dp"
    app:layout_constraintBottom_toBottomOf="@+id/imageView5"
    app:layout_constraintEnd_toStartOf="@+id/imageView6"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/imageView5"
    app:layout_constraintTop_toTopOf="@+id/imageView5"
    app:srcCompat="@drawable/tw" />

<ImageView
    android:id="@+id/imageView5"
    android:layout_width="50dp"
    android:layout_height="50dp"
    android:layout_marginStart="8dp"
    android:layout_marginEnd="8dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toStartOf="@+id/imageView4"
    app:layout_constraintHorizontal_bias="0.5"

```



```

        app:layout_constraintStart_toEndOf="@+id/imageView2"
        app:layout_constraintTop_toBottomOf="@+id/textView4"
        app:layout_constraintVertical_bias="0.337"
        app:srcCompat="@drawable/git" />

        <ImageView
            android:id="@+id/imageView6"
            android:layout_width="50dp"
            android:layout_height="50dp"
            app:layout_constraintBottom_toBottomOf="@+id/imageView5"
            app:layout_constraintEnd_toEndOf="parent"
            app:layout_constraintHorizontal_bias="0.5"
            app:layout_constraintStart_toEndOf="@+id/imageView4"
            app:layout_constraintTop_toTopOf="@+id/imageView5"
            app:srcCompat="@drawable/gmail" />

    </androidx.constraintlayout.widget.ConstraintLayout>

</androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>

</androidx.constraintlayout.widget.ConstraintLayout>

```

ADDNOTE XML

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:padding="20dp"
    android:layout_height="match_parent"
    android:background="@color/relative_bg"
    tools:context=".AddNoteActivity">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/titletextView"
        android:text="@string/add_new_note"
        android:textColor="@color/white"
        android:textSize="25sp"
        android:gravity="center"
        android:layout_margin="20dp"
        android:textStyle="bold"/>

    <LinearLayout
        android:layout_width="354dp"
        android:layout_height="551dp"
        android:layout_margin="10dp"
        android:background="@drawable/round_corner"
        android:orientation="vertical"
        android:padding="10dp">

```

```

<EditText
    android:id="@+id/titleinput"
    android:layout_width="317dp"
    android:layout_height="60dp"
    android:layout_margin="10dp"

    android:background="@color/relative_bg"
    android:hint="Title"
    android:padding="10dp" />

<EditText
    android:id="@+id/discription"
    android:layout_width="314dp"
    android:layout_height="430dp"
    android:layout_margin="10dp"
    android:background="@color/relative_bg"
    android:gravity="top"
    android:hint="Discription"
    android:lines="10"
    android:padding="10dp" />
</LinearLayout>

<Button
    android:id="@+id/save_btn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:background="@drawable/circle_btn"
    android:text="Save"
    android:textStyle="bold"
    android:textColor="@color/white" />

</LinearLayout>

```

NOTEPAD ITEM VIEW

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="15dp"
    android:padding="10dp"
    android:background="@drawable/round_corner"
    android:layout_marginBottom="10dp">
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/titleoutput"
        android:textSize="20sp"
        android:textColor="@color/black"
        android:text="@string/my_titles"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/descoutput"

```

```

        android:textSize="12sp"
        android:layout_below="@id/titleoutput"
        android:textColor="@color/black"
        android:text="@string/my_long_description"/>
    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/timeoutput"
        android:textSize="12sp"
        android:layout_below="@id/descoutput"
        android:textColor="@color/black"
        android:gravity="end"
        android:text="Jan 21 2022"/>
</RelativeLayout>

```

NOTEPAD RECYCLERVIEW

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:theme="@style/Theme.MaterialComponents"
    android:layout_height="match_parent"
    android:background="@color/relative_bg"
    android:padding="10dp"
    tools:context=".Main_Note">

    <TextView
        android:id="@+id/notes_title"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Notes App"
        android:textColor="@color/white"
        android:textSize="24sp"
        android:textStyle="bold" />

    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recycler_view_NOTE"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_above="@id/addnew_note"
        android:layout_below="@id/notes_title"/>

    <Button
        android:id="@+id/addnew_note"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:background="@drawable/circle_btn"

        android:text="Add new Note"
        android:textColor="@color/white" />

</RelativeLayout>

```

Attris.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <declare-styleable name="PasscodeView">
        <attr name="passcodeViewType" format="enum">
            <enum name="set_passcode" value="0"/>
            <enum name="check_passcode" value="1"/>
        </attr>
        <attr name="normalStateColor" format="color"/>
        <attr name="correctStateColor" format="color"/>
        <attr name="wrongStateColor" format="color"/>
        <attr name="numberTextColor" format="color"/>
        <attr name="passcodeLength" format="integer"/>
        <attr name="firstInputTip" format="string"/>
        <attr name="secondInputTip" format="string"/>
        <attr name="wrongLengthTip" format="string"/>
        <attr name="wrongInputTip" format="string"/>
        <attr name="correctInputTip" format="string"/>
    </declare-styleable>
</resources>
```

Colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="purple_200">#102b2e4a</color>
    <color name="purple_500">#2b2e4a</color>
    <color name="purple_700">#2b2e4a</color>
    <color name="relative_bg">#2b2e4a</color>
    <color name="teal_200">#FF03DAC5</color>
    <color name="teal_700">#FF018786</color>
    <color name="black">#FF000000</color>
    <color name="white">#FFFFFFFF</color>
    <color name="colorPrimary">#E91E63</color>
    <color name="colorPrimaryDark">#C2185B</color>
    <color name="colorAccent">#536DFE</color>
    <color name="text_black">#000</color>
</resources>
```

Strings.xml

```
<resources>
    <string name="app_name">CryptoNote</string>
    strings.xml
    <string name="title_activity_main">MainActivity</string>
```

```

    <string name="title_fingerprint">One-touch Sign In</string>
    <string name="desc_fingerprint">Please place your fingertip on the scanner to verify
your identity</string>
    <string name="note">(Fingerprint sign in makes your app login much faster. Your
device should have at least one fingerprint registered in device settings)</string>
    <string name="title_activity_home">Fingerprint</string>
    <string name="activity_home_desc">You have successfully logged in with fingerprint
authentication</string>
    <string name="activity_home_note">Close and re-open the app to see the fingerprint
auth screen again</string>
    <string name="my_titles">My Titles</string>
    <string name="my_long_description">My Long Description</string>
    <string name="add_new_note">CryptoNote</string>
    <string name="please_enter_passcode">Enter a passcode of 4-6 digits</string>
    <string name="lock_input_again">Re-enter new passcode</string>
    <string name="lock_input_not_match">Passcodes do not match.</string>
</resources>

```

Styles.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <style name="NumberInPasscode">
        <item name="android:layout_width">54dp</item>
        <item name="android:layout_height">54dp</item>
        <item name="android:background">@drawable/layout_selector_tran</item>
        <item name="android:clickable">true</item>
        <item name="android:gravity">center</item>
        <item name="android:textSize">24sp</item>
        <item name="android:textStyle">bold</item>
        <item name="android:textColor">@color/text_black</item>
    </style>
</resources>

```

JAVACODE SECTION

Splash Screen JAVA

```

package com.bs4b.privategallery;

import androidx.appcompat.app.AppCompatActivity;

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

public class MainActivity extends AppCompatActivity {

```

```

ImageView tx1;
TextView tx2;

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

    tx1=(ImageView) findViewById(R.id.icon);
    tx2=(TextView) findViewById(R.id.textView1);
    tx1.setVisibility(View.VISIBLE);

    tx2.setVisibility(View.VISIBLE);

    new Handler().postDelayed(new Runnable() {
        @Override
        public void run() {
            Intent intent =new Intent(MainActivity.this,MainActivity4.class);
            startActivity(intent);
            onBackPressed();
        }
    },2000);
}
}

```

RecyclerView activity java

```

package com.bs4b.privategallery;

import android.content.Intent;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ProgressBar;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonObjectRequest;
import com.android.volley.toolbox.Volley;

import org.json.JSONArray;
import org.json.JSONException;

```

```

import org.json.JSONObject;

import java.text.DecimalFormat;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.Map;

public class MainActivity4 extends AppCompatActivity {

    RecyclerView CurrenciesRV;
    ProgressBar LoadingPB;
    EditText SearchText;
    Button bt4;
    public ArrayList<Model> currencyModalArrayList;
    public CurrencyRvAdapter currencyRVAdapter;
    private static DecimalFormat df2 = new DecimalFormat("#.####");

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main4);
        SearchText = findViewById(R.id.idEdtSearch);
        CurrenciesRV = findViewById(R.id.idEdtCurrency);
        LoadingPB = findViewById(R.id.idPBLoading);
        bt4= findViewById(R.id.button4);

        currencyModalArrayList = new ArrayList<>();

        // initializing our adapter class.
        currencyRVAdapter = new CurrencyRvAdapter(currencyModalArrayList, this);

        // setting layout manager to recycler view.
        CurrenciesRV.setLayoutManager(new LinearLayoutManager(this));

        // setting adapter to recycler view.
        CurrenciesRV.setAdapter(currencyRVAdapter);

        // calling get data method to get data from API.
        getData();

        bt4.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(getApplicationContext(), Registration.class);
                startActivity(intent);
            }
        });
        SearchText.addTextChangedListener(new TextWatcher() {
            @Override
            public void beforeTextChanged(CharSequence charSequence, int i, int i1, int
i2) {

            }
        }
    }
}

```

```

        @Override
        public void onTextChanged(CharSequence charSequence, int i, int i1, int i2)
        {

        }

        @Override
        public void afterTextChanged(Editable editable) {

            filter(editable.toString());

        }
    });
}

private void filter(String filter) {
    // on below line we are creating a new array list
    // for storing our filtered data.
    ArrayList<Model> filteredlist = new ArrayList<>();
    // running a for loop to search the data from our array list.
    for (Model item : currencyModalArrayList) {
        // on below line we are getting the item which are
        // filtered and adding it to filtered list.
        if (item.getName().toLowerCase().contains(filter.toLowerCase())) {
            filteredlist.add(item);
        }
    }
    // on below line we are checking
    // whether the list is empty or not.
    if (filteredlist.isEmpty()) {
        // if list is empty we are displaying a toast message.
        Toast.makeText(this, "No currency found..", Toast.LENGTH_SHORT).show();
    } else {
        // on below line we are calling a filter
        // list method to filter our list.
        currencyRVAdapter.filterList(filteredlist);
    }
}

private void getData() {

    String url = "https://pro-
api.coinmarketcap.com/v1/cryptocurrency/listings/latest";

    RequestQueue queue = Volley.newRequestQueue(this);
    // making a json object request to fetch data from API.
    JSONObjectRequest jsonObjectRequest = new JSONObjectRequest(Request.Method.GET,
url, null, new Response.Listener<JSONObject>() {
        @Override
        public void onResponse(JSONObject response) {
            // inside on response method extracting data
            // from response and passing it to array list
            // on below line we are making our progress
            // bar visibility to gone.
            LoadingPB.setVisibility(View.GONE);
            try {

```



```

        // extracting data from json.
        JSONArray dataArray = response.getJSONArray("data");
        for (int i = 0; i < dataArray.length(); i++) {
            JSONObject dataObj = dataArray.getJSONObject(i);
            String id = dataObj.getString("id");
            String symbol = dataObj.getString("symbol");
            String name = dataObj.getString("name");
            JSONObject quote = dataObj.getJSONObject("quote");
            JSONObject USD = quote.getJSONObject("USD");
            double price = USD.getDouble("price");
            double Percent_1h = USD.getDouble("percent_change_1h");
            double Percent_24h = USD.getDouble("percent_change_24h");
            double Percent_7d = USD.getDouble("percent_change_7d");

            //Coverting double data attributes into string bcz i have used
model class as a string
            String PRICE, PER_1H, PER_24H, PER_7H;
            PRICE= String.valueOf(df2.format(price));
            PER_1H=String.valueOf(df2.format(Percent_1h));
            PER_24H=String.valueOf(df2.format(Percent_24h));
            PER_7H=String.valueOf(df2.format(Percent_7d));
            // adding all data to our array list.
            currencyModalArrayList.add(new
Model(id,name,symbol,PRICE,PER_1H,PER_24H,PER_7H));

        }
        // notifying adapter on data change.
        currencyRVAdapter.notifyDataSetChanged();
    } catch (JSONException e) {
        // handling json exception.
        e.printStackTrace();
        Toast.makeText(MainActivity4.this, "Failed to extract json data",
Toast.LENGTH_SHORT).show();
    }
}
}, new Response.ErrorListener() {
    @Override
    public void onErrorResponse(VolleyError error) {
        // displaying error response when received any error.
        Toast.makeText(MainActivity4.this, "Something went Miss. Please try
again later", Toast.LENGTH_SHORT).show();
    }
}) {
    @Override
    public Map<String, String> getHeaders() {
        // in this method passing headers as
        // key along with value as API keys.
        // Toast.makeText(getApplicationContext(), "hello world",
Toast.LENGTH_SHORT).show();
        HashMap<String, String> headers = new HashMap<>();
        headers.put("X-CMC_PRO_API_KEY", "6c12996c-952a-4a60-b570-
f1fae87eb1fb");
        // at last returning headers
        return headers;
    }
};
// calling a method to add our
// json object request to our queue.
queue.add(jsonObjectRequest);

```

```
}
}
```

Login chose java

```
package com.bs4b.privategallery;

import static androidx.biometric.BiometricManager.Authenticators.BIOMETRIC_STRONG;
import static androidx.biometric.BiometricManager.Authenticators.DEVICE_CREDENTIAL;

import android.content.Intent;
import android.os.Bundle;
import android.provider.Settings;
import android.util.Log;
import android.view.View;
import android.widget.Switch;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.biometric.BiometricManager;
import androidx.biometric.BiometricPrompt;
import androidx.core.content.ContextCompat;

import java.util.concurrent.Executor;

public class MainActivity2 extends AppCompatActivity {

    int REQUEST_CODE=1000;
    Switch simpleSwitch;

    private Executor executor;
    private BiometricPrompt biometricPrompt;
    private BiometricPrompt.PromptInfo promptInfo;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        simpleSwitch= findViewById(R.id.switch1);

        BiometricManager biometricManager = BiometricManager.from(this);
        switch (biometricManager.canAuthenticate(BIOMETRIC_STRONG | DEVICE_CREDENTIAL))
        {
            case BiometricManager.BIOMETRIC_SUCCESS:
                Log.d("MY_APP_TAG", "App can authenticate using biometrics.");
                break;
            case BiometricManager.BIOMETRIC_ERROR_NO_HARDWARE:
                Log.e("MY_APP_TAG", "NO BIOMETRIC SENSOR DETECTED.");
                break;
            case BiometricManager.BIOMETRIC_ERROR_HW_UNAVAILABLE:
                Log.e("MY_APP_TAG", "NO BIOMETRIC SENSOR DETECTED");
                break;
        }
    }
}
```

```

        case BiometricManager.BIOMETRIC_ERROR_NONE_ENROLLED:
            // Prompts the user to create credentials that your app accepts.
            final Intent enrollIntent = new
Intent(Settings.ACTION_BIOMETRIC_ENROLL);
            enrollIntent.putExtra(Settings.EXTRA_BIOMETRIC_AUTHENTICATORS_ALLOWED,
                BIOMETRIC_STRONG | DEVICE_CREDENTIAL);

            startActivityForResult(enrollIntent, REQUEST_CODE);
            break;
    }

    executor = ContextCompat.getMainExecutor(this);
    biometricPrompt = new BiometricPrompt(MainActivity2.this,
        executor, new BiometricPrompt.AuthenticationCallback() {
            @Override
            public void onAuthenticationError(int errorCode,
                @NonNull CharSequence errString) {
                super.onAuthenticationError(errorCode, errString);
                Toast.makeText(getApplicationContext(),
                    "Authentication error: " + errString, Toast.LENGTH_SHORT)
                    .show();
            }

            @Override
            public void onAuthenticationSucceeded(
                @NonNull BiometricPrompt.AuthenticationResult result) {
                super.onAuthenticationSucceeded(result);
                Intent intent = new Intent(getApplicationContext(), Main_Note.class);
                startActivity(intent);
            }

            @Override
            public void onAuthenticationFailed() {
                super.onAuthenticationFailed();
                Toast.makeText(getApplicationContext(), "Not Recognized",
                    Toast.LENGTH_SHORT)
                    .show();
            }
        });

    promptInfo = new BiometricPrompt.PromptInfo.Builder()
        .setTitle("Biometric login for my app")
        .setSubtitle("Log in using your biometric credential")
        .setNegativeButtonText("Cancel")
        .build();

    simpleSwitch.setOnClickListener(view -> {
        if (simpleSwitch.isChecked())
        {
            biometricPrompt.authenticate(promptInfo);
            Toast toast = Toast.makeText(getApplicationContext(), "BIOMETRIC
ON", Toast.LENGTH_SHORT);
            toast.show();
        }
        else
        {
            Toast toast = Toast.makeText(getApplicationContext(), "BIOMETRIC

```

```

OFF", Toast.LENGTH_SHORT);
        toast.show();
    }
});
}
public void pin(View view) {
    Intent intent = new Intent(this, passcode_activity.class);
    startActivity(intent);
}

public void email(View view) {
    Intent intent = new Intent(this, Login.class);
    startActivity(intent);
}
}

```

Registration java

```

package com.bs4b.privategallery;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
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.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
import com.google.firebase.database.DatabaseReference;
import com.google.firebase.database.FirebaseDatabase;

import java.util.HashMap;
import java.util.Map;

public class Registration extends AppCompatActivity {

    FirebaseDatabase database = FirebaseDatabase.getInstance();
    DatabaseReference myRef = database.getReference("message");
    TextView alreadyAcc;
    EditText email, password, conform_password;
    Button reg;
    String PIN;
    String emailPattern = "[a-zA-Z0-9._-]+@[a-z]+\\.+[a-z]+";
}

```

```

ProgressDialog progressDialog;
FirebaseAuth mAuth; //step 3
FirebaseUser firebaseUser;

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

    alreadyAcc=findViewById(R.id.already);
    email=findViewById(R.id.email_in);
    password=findViewById(R.id.password);
    conform_password=findViewById(R.id.password);
    reg=findViewById(R.id.register);
    progressDialog=new ProgressDialog(this);

    mAuth=FirebaseAuth.getInstance(); //step 4
    firebaseUser=mAuth.getCurrentUser(); //step 4

    reg.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Authention();
        }
    });

    alreadyAcc.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            startActivity(new Intent(Registration.this,MainActivity2.class));
        }
    });
}

private void Authention() {
    String s_email=email.getText().toString();
    String s_password=password.getText().toString();
    String confrimPassword=conform_password.getText().toString();

    if (!s_email.matches(emailPattern))
    {
        email.setError("Enter Connext Email");
    }
    else if (s_password.isEmpty() || s_password.length()<6)
    {
        password.setError("Enter Proper Password");
    }
    else if (!s_password.equals(confrimPassword))
    {
        conform_password.setError("Password Not match Both field");
    }
    else
    {
        progressDialog.setMessage("Please Wait While Registration...");
    }
}

```

Pin java

```

package com.bs4b.privategallery;

import static android.content.ContentValues.TAG;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.view.WindowManager;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;
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 passcode_activity extends AppCompatActivity {

    FirebaseDatabase database = FirebaseDatabase.getInstance();
    DatabaseReference myRef = database.getReference("message");
    TextView ab_display;
    TextView display;
    int counter=0;
    String PIN_ENTER;
    String star;
    final String[] PIN = new String[1];
    final int[] b = new int[1];
    //    String PIN ="12345";

    ProgressDialog progressDialog;
    FirebaseAuth mAuth;
    FirebaseUser firebaseUser;

    TextView one;
    TextView two;
    TextView three;
    TextView four;
    TextView five;
    TextView six;
    TextView seven;
    TextView eight;
    TextView nine;
    TextView zero;
    ImageView ok;
    ImageView back;

```

```

@Override
protected void onCreate(Bundle savedInstanceState) {

getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN, WindowManager.LayoutParams.FLAG_FULLSCREEN);
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_passcode);
    ab_display = findViewById(R.id.ab);
    display = findViewById(R.id.space);

    one = findViewById(R.id.number1);
    two = findViewById(R.id.number2);
    three = findViewById(R.id.number3);
    four = findViewById(R.id.number4);
    five = findViewById(R.id.number5);
    six = findViewById(R.id.number6);
    seven = findViewById(R.id.number7);
    eight = findViewById(R.id.number8);
    nine = findViewById(R.id.number9);
    zero = findViewById(R.id.number0);
    ok = findViewById(R.id.numberOK);
    back = findViewById(R.id.numberB);

    progressDialog=new ProgressDialog(this);

    mAuth= FirebaseAuth.getInstance();
    firebaseUser=mAuth.getCurrentUser();

    myRef.addValueEventListener(new ValueEventListener() {
        public void onDataChange(DataSnapshot dataSnapshot) {
            // This method is called once with the initial value and again
            // whenever data at this location is updated.
            if (dataSnapshot.getValue(String.class)==null)
            {
                Toast.makeText(passcode_activity.this, "Not Registered",
Toast.LENGTH_SHORT).show();
                Intent intent = new
Intent(getApplicationContext(),Registration.class);
                startActivity(intent);
            }
            else {
                String value = dataSnapshot.getValue(String.class);
                b[0] = value.length();
                PIN[0] = value;
            }
        }
        public void onCancelled(DatabaseError error) {
            // Failed to read value
            Log.w(TAG, "Failed to read value.", error.toException());
        }
    });

    one.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {

```



```

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="1";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(1);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});

two.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="2";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(2);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});

three.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="3";
                star = " * ";
                display.setText(" * ");
            }
            else

```

```

        {
            PIN_ENTER = PIN_ENTER + String.valueOf(3);
            star = star + "* ";
            display.setText(" "+star);
        }
        counter++;
    }
}
});
four.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="4";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(4);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});
five.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="5";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(5);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});
six.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

```

```

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="6";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(6);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});
seven.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="7";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(7);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});
eight.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="8";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(8);
                star = star + "* ";
            }
        }
    }
});

```

```

        display.setText(" "+star);
    }
    counter++;
}
});
nine.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="9";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(9);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});
zero.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter<b[0])
        {

            if (counter==0)
            {
                PIN_ENTER ="0";
                star = " * ";
                display.setText(" * ");
            }
            else
            {
                PIN_ENTER = PIN_ENTER + String.valueOf(0);
                star = star + "* ";
                display.setText(" "+star);
            }
            counter++;
        }
    }
});

back.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter>0) {

```

```

        counter--;

        if (PIN_ENTER.length() >= 0) {
            PIN_ENTER = PIN_ENTER.substring(0, PIN_ENTER.length() - 1);
            star = star.substring(0, star.length() - 2);
            display.setText("" + star);
        }
        if (counter==0)
        {
            display.setText("- - - - -");
        }
    }
});

ok.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {

        if (counter == 0) {
            ab_display.setText("Enter Pin Code First");
        } else {

            int a = PIN_ENTER.length();
            if (a == b[0]) {
                int no1 = Integer.parseInt(PIN_ENTER);
                int no2 = Integer.parseInt(PIN[0]);
                if (no1 == no2) {
                    Toast.makeText(passcode_activity.this, "Login Successfull",
Toast.LENGTH_SHORT).show();
                    Intent intent = new Intent(getApplicationContext(),
Main_Note.class);

                    startActivity(intent);
                    PIN_ENTER = null;
                    counter = 0;
                    display.setText("- - - - -");
                    startActivity(intent);
                } else {
                    PIN_ENTER = null;
                    counter = 0;
                    display.setText("- - - - -");
                    ab_display.setText("InCorrect Pin Re Enter Pin Code");
                }

                // }
            } else {
                PIN_ENTER = null;
                counter = 0;
                display.setText("- - - - -");
                ab_display.setText("InCorrect Pin Re Enter Pin Code");
            }
        }
    }
});
}

```

```
}
```

Note Model class

```
package com.bs4b.privategallery;  
  
import io.realm.RealmObject;  
  
public class Note extends RealmObject {  
    String title;  
    String description;  
    long createTime;  
  
    public String getTitle() {  
        return title;  
    }  
  
    public void setTitle(String title) {  
        this.title = title;  
    }  
  
    public String getDescription() {  
        return description;  
    }  
  
    public void setDescription(String description) {  
        this.description = description;  
    }  
  
    public long getCreateTime() {  
        return createTime;  
    }  
  
    public void setCreateTime(long createTime) {  
        this.createTime = createTime;  
    }  
}
```

API Model Class

```
package com.bs4b.privategallery;  
  
public class Model {  
  
    public String id;  
    public String name;  
    public String symbol;  
    public String price_used;
```

```
public String Percent_change_1h;
public String Percent_change_24h;
public String Percent_change_7d;

public Model(String id, String name, String symbol, String price_used, String
percent_change_1h, String percent_change_24h, String percent_change_7d) {
    this.id = id;
    this.name = name;
    this.symbol = symbol;
    this.price_used = price_used;
    Percent_change_1h = percent_change_1h;
    Percent_change_24h = percent_change_24h;
    Percent_change_7d = percent_change_7d;
}

public String getId() {
    return id;
}

public void setId(String id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public String getSymbol() {
    return symbol;
}

public void setSymbol(String symbol) {
    this.symbol = symbol;
}

public String getPrice_used() {
    return price_used;
}

public void setPrice_used(String price_used) {
    this.price_used = price_used;
}

public String getPercent_change_1h() {
    return Percent_change_1h;
}

public void setPercent_change_1h(String percent_change_1h) {
    Percent_change_1h = percent_change_1h;
}

public String getPercent_change_24h() {
    return Percent_change_24h;
}
}
```

```

public void setPercent_change_24h(String percent_change_24h) {
    Percent_change_24h = percent_change_24h;
}

public String getPercent_change_7d() {
    return Percent_change_7d;
}

public void setPercent_change_7d(String percent_change_7d) {
    Percent_change_7d = percent_change_7d;
}
}

```

Main Notepad java

```

package com.bs4b.privategallery;

import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

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

import io.realm.Realm;
import io.realm.RealmChangeListener;
import io.realm.RealmResults;
import io.realm.Sort;

public class Main_Note extends AppCompatActivity {

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

        Button addNoteBtn=findViewById(R.id.addnew_note);
        addNoteBtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                startActivity(new Intent(Main_Note.this,AddNoteActivity.class));
            }
        });

        Realm.init(getApplicationContext());
        Realm realm=Realm.getDefaultInstance();

        RealmResults<Note>
        notesList=realm.where(Note.class).findAll().sort("createTime", Sort.DESCENDING);

        RecyclerView recyclerView=findViewById(R.id.recycler_view_NOTE);
    }
}

```



```

recyclerView.setLayoutManager(new LinearLayoutManager(this));
Adapter adapter=new Adapter(getApplicationContext(),notesList);
recyclerView.setAdapter(adapter);
notesList.addChangeListener(new RealmChangeListener<RealmResults<Note>>() {
    @SuppressWarnings("NotifyDataSetChanged")
    @Override
    public void onChange(@NonNull RealmResults<Note> notes) {
        adapter.notifyDataSetChanged();
    }
});
}
}

```

Login java

```

package com.bs4b.privategallery;

import android.app.AlertDialog;
import android.content.Intent;
import android.os.Bundle;
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.google.android.gms.tasks.OnCompleteListener;
import com.google.android.gms.tasks.Task;
import com.google.firebase.auth.AuthResult;
import com.google.firebase.auth.FirebaseAuth;
import com.google.firebase.auth.FirebaseUser;

public class Login extends AppCompatActivity {

    TextView createAcc;
    EditText email,password;
    Button login;
    String emailPattern="[a-zA-Z0-9._-]+@[a-z]+\\.+[a-z]+";
    ProgressDialog progressDialog;

    FirebaseAuth mAuth; //step 3
    FirebaseUser firebaseUser;

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

        createAcc=findViewById(R.id.already);
        email=findViewById(R.id.email_in);
        password=findViewById(R.id.password);
    }
}

```

```

login=findViewById(R.id.register);

progressDialog=new ProgressDialog(this);

mAuth=FirebaseAuth.getInstance();
firebaseUser=mAuth.getCurrentUser();

login.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        perfromlogin();
    }
});

createAcc.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        startActivity(new Intent(Login.this,Registration.class));
    }
});

private void perfromlogin() {
    String s_email = email.getText().toString();
    String s_password = password.getText().toString();

    if (!s_email.matches(emailPattern)) {
        email.setError("Enter Correct Email");
    } else if (s_password.isEmpty() || s_password.length() < 6) {
        password.setError("Enter Proper Password");
    } else {
        progressDialog.setMessage("Please Wait While Login...");
        progressDialog.setTitle("login");
        progressDialog.setCanceledOnTouchOutside(false);
        progressDialog.show();

        mAuth.signInWithEmailAndPassword(s_email,s_password).addOnCompleteListener(new
        OnCompleteListener<AuthResult>() {
            @Override
            public void onComplete(@NonNull Task<AuthResult> task) {
                if (task.isSuccessful())
                {
                    progressDialog.dismiss();
                    sendUserToNextActivity();

//step 6

                    Toast.makeText(Login.this, " Login Successful",
Toast.LENGTH_SHORT).show();
                }
                else
                {
                    progressDialog.dismiss();
                    Toast.makeText(Login.this, ""+task.getException(),
Toast.LENGTH_SHORT).show(); //show error

```

```

    }
    });
}

private void sendUserToNextActivity() {
    Intent intent=new Intent(Login.this,Main_Note.class);           //step 7
    intent. setFlags
(Intent.FLAG_ACTIVITY_CLEAR_TASK|Intent.FLAG_ACTIVITY_NEW_TASK);    // step 8
    startActivity(intent);
}
}

```

CurrencyRVadapter

```

package com.bs4b.privategallery;

import android.content.Context;
import android.graphics.Color;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import com.bumptech.glide.Glide;

import java.text.DecimalFormat;
import java.util.ArrayList;

public class CurrencyRvAdapter extends
RecyclerView.Adapter<CurrencyRvAdapter.ViewHolder> {
    private static DecimalFormat df2 = new DecimalFormat("#.##");
    public ArrayList<Model> currencyModals;
    public Context context;

    public CurrencyRvAdapter(ArrayList<Model> currencyModals, Context context) {
        this.currencyModals = currencyModals;
        this.context = context;
    }

    // below is the method to filter our list.
    public void filterList(ArrayList<Model> filterllist) {
        // adding filtered list to our
        // array list and notifying data set changed
        currencyModals = filterllist;
        notifyDataSetChanged();
    }
}

```

```

    @NonNull
    @Override
    public CurrencyRvAdapter.ViewHolder onCreateViewHolder(@NonNull ViewGroup parent,
int viewType) {

        View view =
LayoutInflater.from(context).inflate(R.layout.activity_currency_item, parent, false);
        return new CurrencyRvAdapter.ViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull ViewHolder holder, int position) {
        Model model = currencyModals.get(position);
        Glide.with(context).load(

"https://s2.coinmarketcap.com/static/img/coins/64x64/"+model.getId()+".png").into(holder
.coin_icon);

        Glide.with(context).load(

"https://s3.coinmarketcap.com/generated/sparklines/web/7d/2781/"+model.getId()+".png").i
nto(holder.Graph);

        holder.coin_name.setText(model.getName());
        holder.coin_price.setText(model.getPrice_used()+" $");
        holder.coin_symbol.setText(model.getSymbol());
        holder.hour1_change.setText(model.getPercent_change_1h()+" %");
        holder.hour24_change.setText(model.getPercent_change_24h()+" %");
        holder.day7_change.setText(model.getPercent_change_7d()+" %");

        holder.hour1_change.setTextColor (model.getPercent_change_1h(). contains ("-")?
            Color.parseColor ( "#FF0000"): Color.parseColor("#32CD32"));

        holder.hour24_change.setTextColor (model.getPercent_change_24h(). contains ("-
")?
            Color.parseColor ( "#FF0000"): Color.parseColor("#32CD32"));

        holder.day7_change.setTextColor (model.getPercent_change_7d(). contains ("-")?
            Color.parseColor ( "#FF0000"): Color.parseColor("#32CD32"));
//    }
}

@Override
public int getItemCount() {
    return currencyModals.size();
}

public class ViewHolder extends RecyclerView.ViewHolder {
    public ImageView coin_icon,Graph;
    public TextView
coin_symbol,coin_name,coin_price,hour1_change,hour24_change,day7_change;
    public ViewHolder(View itemView) {

```

```

        super(itemView);
        coin_icon= itemView.findViewById(R.id.coinIcon);
        coin_name= itemView.findViewById(R.id.coinName);
        coin_symbol = itemView.findViewById(R.id.coinSymbol);
        coin_price = itemView.findViewById(R.id.priceUsd);
        hour1_change = itemView.findViewById(R.id.oneHour);
        hour24_change = itemView.findViewById(R.id.twentyFourHour);
        day7_change = itemView.findViewById(R.id.sevenDay);
        Graph = itemView.findViewById(R.id.graph);

    }

}

```

Add note java

```

package com.bs4b.privategallery;

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

import androidx.appcompat.app.AppCompatActivity;

import io.realm.Realm;

public class AddNoteActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_add_note);
        EditText titleInput=findViewById(R.id.titleinput);
        EditText descriptionInput=findViewById(R.id.discription);
        Button savebtn=findViewById(R.id.save_btn);
        Realm.init(getApplicationContext());
        Realm realm=Realm.getDefaultInstance();
        savebtn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String title=titleInput.getText().toString();
                String des=descriptionInput.getText().toString();
                long createdTime=System.currentTimeMillis();
                realm.beginTransaction();
                Note note=realm.createObject(Note.class);
                note.setTitle(title);
                note.setDescription(des);
                note.setCreatedTime(createdTime);
                realm.commitTransaction();
                Toast.makeText(AddNoteActivity.this, "Note Saved",
                    Toast.LENGTH_LONG).show();
                finish();
            }
        });
    }
}

```

```

    });
}
}

```

Notepad Adapter

```

package com.bs4b.privategallery;

import android.content.Context;
import android.view.LayoutInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.PopupMenu;
import android.widget.TextView;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;

import java.text.DateFormat;

import io.realm.Realm;
import io.realm.RealmResults;

public class Adapter extends RecyclerView.Adapter<Adapter.ViewHolder>{
    Context context;
    RealmResults<Note> notesList;

    public Adapter(Context context, RealmResults<Note> notesList) {
        this.context = context;
        this.notesList = notesList;
    }

    @NonNull
    @Override
    public ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view = LayoutInflater.from(context).inflate(R.layout.item_view, parent,
false);
        return new Adapter.ViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull ViewHolder holder, int position) {
        Note note=notesList.get(position);
        holder.titleOutput.setText(note.getTitle());
        holder.descOutput.setText(note.getDescription());
        String formattedTime= DateFormat.getDateTimeInstance().format(note.createdTime);
        holder.timeOutput.setText(formattedTime);

        holder.itemView.setOnLongClickListener(new View.OnLongClickListener() {
            @Override
            public boolean onLongClick(View view) {
                PopupMenu menu=new PopupMenu(context,view);
                menu.getMenu().add("DELETE");
                menu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {

```

```

        @Override
        public boolean onOptionsItemSelected(MenuItem menuItem) {
            if(menuItem.getTitle().equals("DELETE"))
            {
                Realm realm=Realm.getDefaultInstance();
                realm.beginTransaction();
                note.deleteFromRealm();
                realm.commitTransaction();
                Toast.makeText(context, "Note Deleted",
Toast.LENGTH_LONG).show();
            }
            return true;
        }
    });
    menu.show();
    return true;
}
});
}

@Override
public int getItemCount() {
    return notesList.size();
}

public class ViewHolder extends RecyclerView.ViewHolder
{
    TextView titleOutput;
    TextView descOutput;
    TextView timeOutput;
    public ViewHolder(@NonNull View itemView) {
        super(itemView);
        titleOutput=itemView.findViewById(R.id.titleoutput);
        descOutput=itemView.findViewById(R.id.descoutput);
        timeOutput=itemView.findViewById(R.id.timeoutput);
    }
}
}
}

```

Currency item java

```

package com.bs4b.privategallery;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class activity_currency_item extends AppCompatActivity {

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

```

```
}
}
```

Android Manifest

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    package="com.bs4b.privategallery">

    <uses-permission android:name="android.permission.USE_BIOMETRIC" />
    <uses-permission android:name="android.permission.INTERNET" />

    <application
        android:allowBackup="true"
        android:icon="@drawable/gallery"
        android:label="@string/app_name"
        android:roundIcon="@drawable/gallery"
        android:supportRtl="true"
        android:theme="@style/Theme.Design.NoActionBar">
        <activity
            android:name=".AddNoteActivity"
            android:exported="false" />
        <activity
            android:name=".Main_Note"
            android:exported="false" />
        <activity
            android:name=".Login"
            android:exported="false" />
        <activity
            android:name=".Registration"
            android:exported="false" />
        <activity
            android:name=".activity_currency_item"
            android:exported="false" />
        <activity
            android:name=".MainActivity4"
            android:exported="false" />
        <activity
            android:name=".passcode_activity"
            android:exported="false" />
        <activity
            android:name=".MainActivity2"
            android:exported="false" />
        <activity
            android:name=".MainActivity"
            android:exported="true">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>

</manifest>
```


Gradles (module)

```
plugins {
    id 'com.android.application'
    id 'com.google.gms.google-services'
}
apply plugin: 'realm-android'

android {
    compileSdk 32

    defaultConfig {
        applicationId "com.bs4b.privategallery"
        minSdk 21
        targetSdk 32
        versionCode 1
        versionName "1.0"

        testInstrumentationRunner "androidx.test.runner.AndroidJUnitRunner"
    }

    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-android-optimize.txt'),
'proguard-rules.pro'
        }
    }
    compileOptions {
        sourceCompatibility JavaVersion.VERSION_1_8
        targetCompatibility JavaVersion.VERSION_1_8
    }
}

dependencies {

    implementation 'androidx.appcompat:appcompat:1.4.1'
    implementation 'com.google.android.material:material:1.6.0'
    implementation 'androidx.constraintlayout:constraintlayout:2.1.4'
    implementation 'androidx.swiperefreshlayout:swiperefreshlayout:1.1.0'
    implementation 'com.google.firebase:firebase-auth:21.0.5'
    implementation 'com.google.firebase:firebase-database:20.0.5'
    testImplementation 'junit:junit:4.13.2'
    androidTestImplementation 'androidx.test.ext:junit:1.1.3'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.4.0'
    implementation "androidx.biometric:biometric:1.1.0"
    implementation "androidx.cardview:cardview:1.0.0"
    implementation 'com.android.volley:volley:1.2.1'
    implementation 'com.squareup.okhttp3:okhttp:3.14.9'
    implementation 'com.squareup.picasso:picasso:2.5.2'
    implementation 'com.google.code.gson:gson:2.8.9'
    implementation 'com.github.bumptech.glide:glide:4.13.0'
    annotationProcessor 'com.github.bumptech.glide:compiler:4.13.0'
    implementation 'com.caverock:androidsvg-aar:1.4'
```

```
}
```

Gradle project

```
buildscript {
    repositories {
        mavenCentral()
        maven { url 'https://jitpack.io' }
    }
    dependencies {
        classpath 'com.google.gms:google-services:4.3.10'
        classpath "io.realm:realm-gradle-plugin:10.11.0"
    }
}

// Top-level build file where you can add configuration options common to all sub-
// projects/modules.

plugins {
    id 'com.android.application' version '7.1.2' apply false
    id 'com.android.library' version '7.1.2' apply false
}

task clean(type: Delete) {
    delete rootProject.buildDir
}
```