

Mobile application development(CSE 3075)

20211CSE0223

SNEHA.R

5CSE4

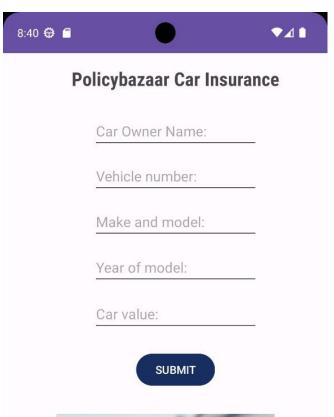
CA₁

Q2.Car Insurance

1.Design (activity_main.xml)

```
<?xml version="1.0" encoding="utf-8"?>
       app:layout constraintTop toTopOf="parent"
       android:layout width="0dp"
```

```
<EditText
<EditText
    android:ems="10"
    android:inputType="text"
<EditText
<EditText
    android:inputType="text"
```





2.JAVA File (MainActivity.java)

```
protected void onCreate(Bundle savedInstanceState) {
       button2.setOnClickListener(new View.OnClickListener() {
                year = editTextText4.getText().toString();
Double.parseDouble(editTextText5.getText().toString());
               details=calculateInsuranceAmount().toString();
"+year+"-"+carValue.toString()+"-"+details,Toast.LENGTH LONG).show();
```

```
});
}

public Double calculateInsuranceAmount() {

    double amt;
        if((carValue>=100000 && carValue<200000)) {
            amt=Math.random()*(max-min+1)+min;
        }
        else if((carValue>=200000 && carValue<400000)) {
                amt=Math.random()*(max1-min1+1)+min1;
        }
        else if((carValue>=400000 && carValue<600000)) {
                amt=Math.random()*(max2-min2+1)+min2;
        }
        else if ((carValue>=600000 && carValue<1000000)) {
                amt=Math.random()*(max3-min3+1)+min3;
        }
        else if(carValue>1000000) {
                amt=(carValue*0.1);
        }
        else {
                amt=0.0;
        }
        return amt;
}
```

3.Design (activity main2.xml)

```
android:layout_width="317dp"
android:layout_height="203dp"
android:layout_marginStart="41dp"
android:layout_marginBottom="212dp"
android:textColor="#00587A"
android:textSize="20sp"
android:textStyle="bold"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toBottomOf="@+id/textView2" />

</mageView
android:id="@+id/imageView2"
android:layout_width="0dp"
android:layout_height="0dp"
android:layout_marginBottom="18dp"
android:src="@drawable/img_2"
app:layout_constraintBottom_toTopOf="@+id/textView2"
app:layout_constraintBottom_toTopOf="@+id/textView2"
app:layout_constraintBottom_toTopOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
</mandroidx.constraintlayout.widget.ConstraintLayout></markets/
```



4.JAVA File (MainActivity2.java)

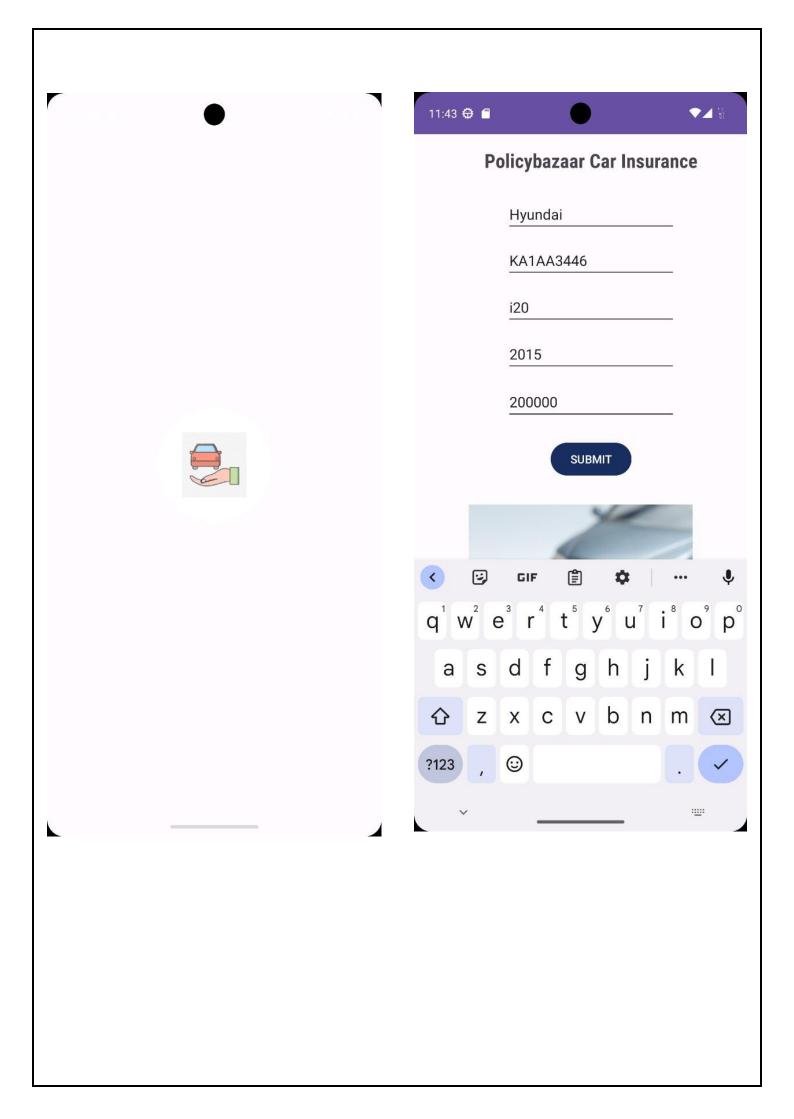
```
package com.example.ca_2q;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

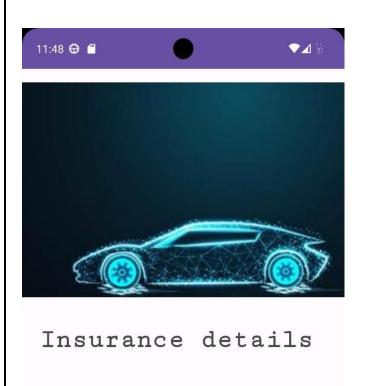
public class MainActivity2 extends AppCompatActivity {
    TextView textView3;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        textView3=findViewById(R.id.textView3);
        Intent intent=getIntent();
        String name=intent.getStringExtra("Name");
        String name=intent.getStringExtra("Name");
        String wake=intent.getStringExtra("Make");
        String year=intent.getStringExtra("Year");
        Double carValue=intent.getStringExtra("Amount");
        string details=intent.getStringExtra("Amount");
        textView3.setText("Car owner name: "+name+"\nVehicle number:
```

```
"+num+"\nMake and model: "+make+"\nYear of model: "+year+"\n Car Value:
"+carValue+"\nInsurance amount: "+details);
     }
}
```

AndroidManifest.xml

5. Output in the emulator

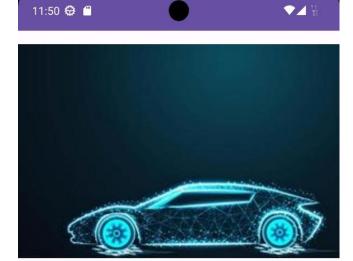




Car owner name: Hyundai Vehicle number: KA1AA3446 Make and model: i20 Year of model: 2015 Car Value: 200000.0

Insurance amount: 4149.3791612726045

Hyundai-KA1AA3446-i20-2015-200000.0 -4149.3791612726045



Insurance details

Car owner name: Hyundai Vehicle number: KA1AA3446

Make and model: i20 Year of model: 2015 Car Value: 200000.0 Insurance amount: 4345.6545134996895

Hyundai-KA1AA3446-i20-2015-200000.0 -4345.6545134996895