



19BIT0292

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ASSIGNMENT-1

MOBILE APPLICATION DEVELOPMENT

Q1. Connection with Firebase database (Online / Youtube Reference)

Q2. Swipe Functionality (View, swipe to Delete, Archive)

BOTH THE ABOVE HAS BEEN IMPLEMENTED ON THE SAME APPLICATION

[CLICK HERE FOR GITHUBB LINK OF THE CODE](#)

[CLICK HERE FOR APK OF APP](#)

ANDROID MANIFEST.xml

CODE

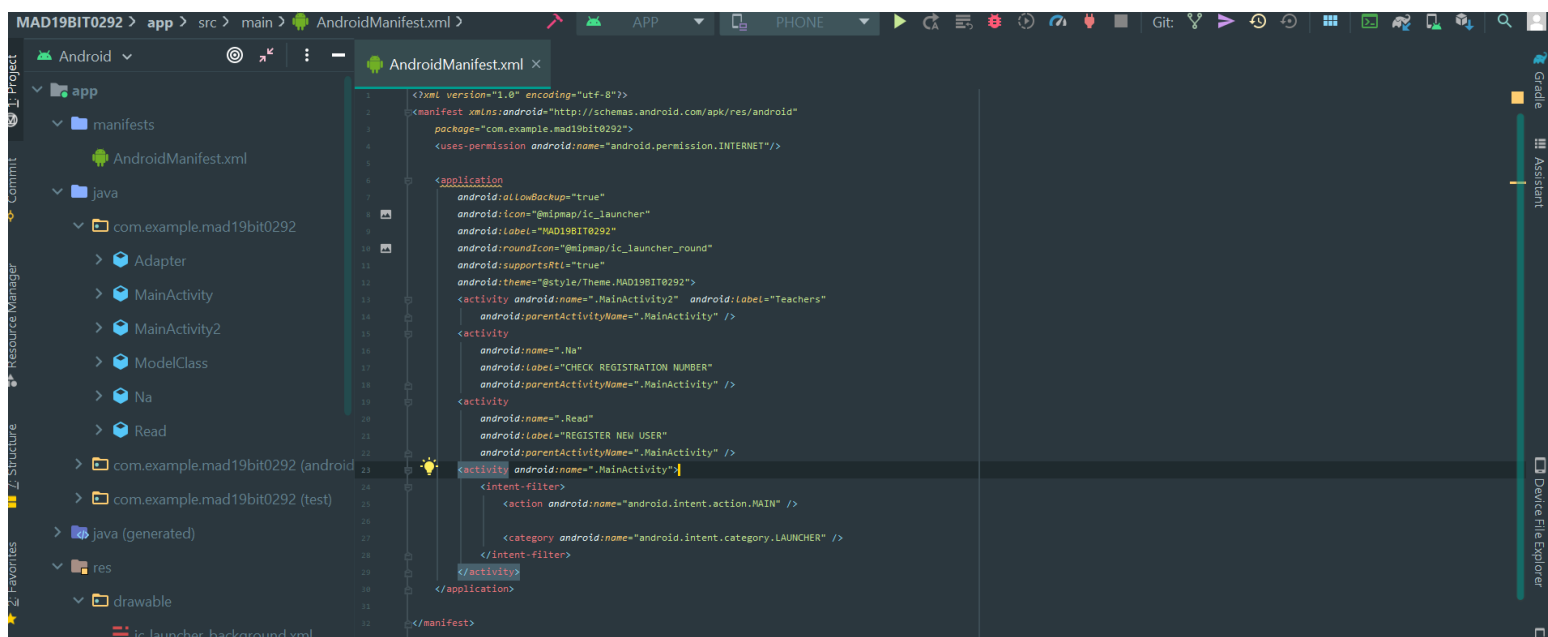
```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.mad19bit0292">

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportRtl="true"
        android:theme="@style/Theme.MAD19BIT0292">
        <activity android:name=".MainActivity2" android:label="Teachers"
            android:parentActivityName=".MainActivity" />
        <activity
            android:name=".Na"
            android:label="CHECK REGISTRATION NUMBER"
            android:parentActivityName=".MainActivity" />
        <activity
            android:name=".Read"
            android:label="REGISTER NEW USER"
            android:parentActivityName=".MainActivity" />
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

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

SCREENSHOT



MainActivity.java

CODE

```
package com.example.mad19bit0292;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

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 MainActivity extends AppCompatActivity {
```

```

        FirebaseDatabase database = FirebaseDatabase.getInstance("https://mad19bit0292-4a203-
default-rtdb.asia-southeast1.firebaseio.com/app/");

        public void red(View v)
        {
            Intent i=new Intent(this,Na.class);
            startActivity(i);
        }

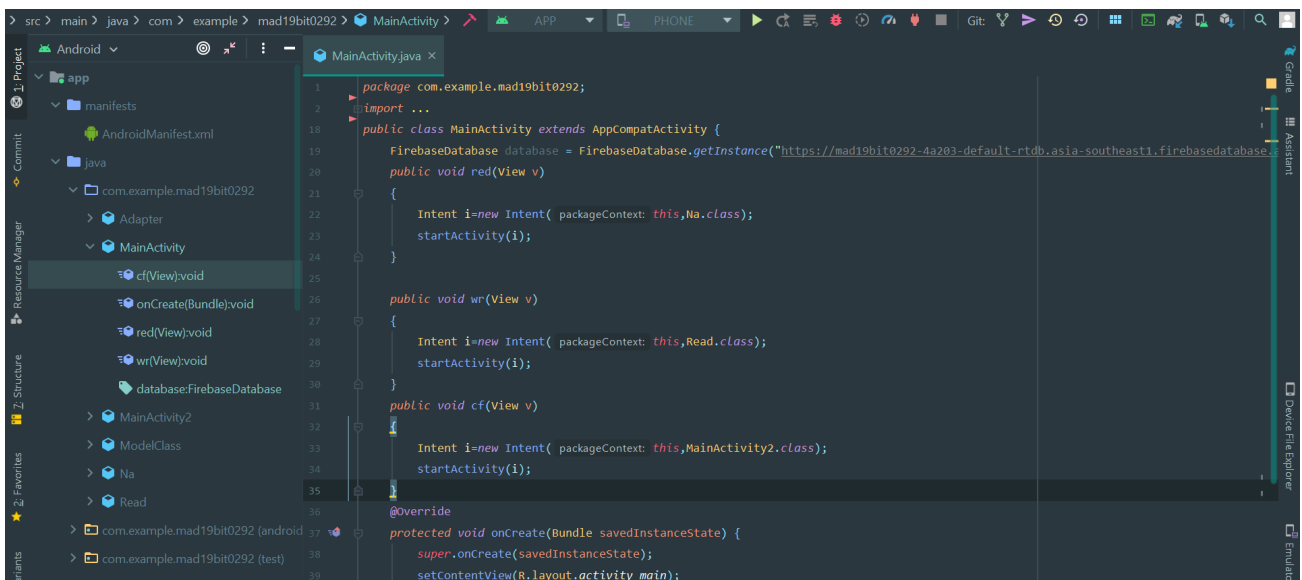
        public void wr(View v)
        {
            Intent i=new Intent(this,Read.class);
            startActivity(i);
        }

        public void cf(View v)
        {
            Intent i=new Intent(this,MainActivity2.class);
            startActivity(i);
        }

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

```

SCREENSHOT



activity_main.xml

CODE

```
<?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">

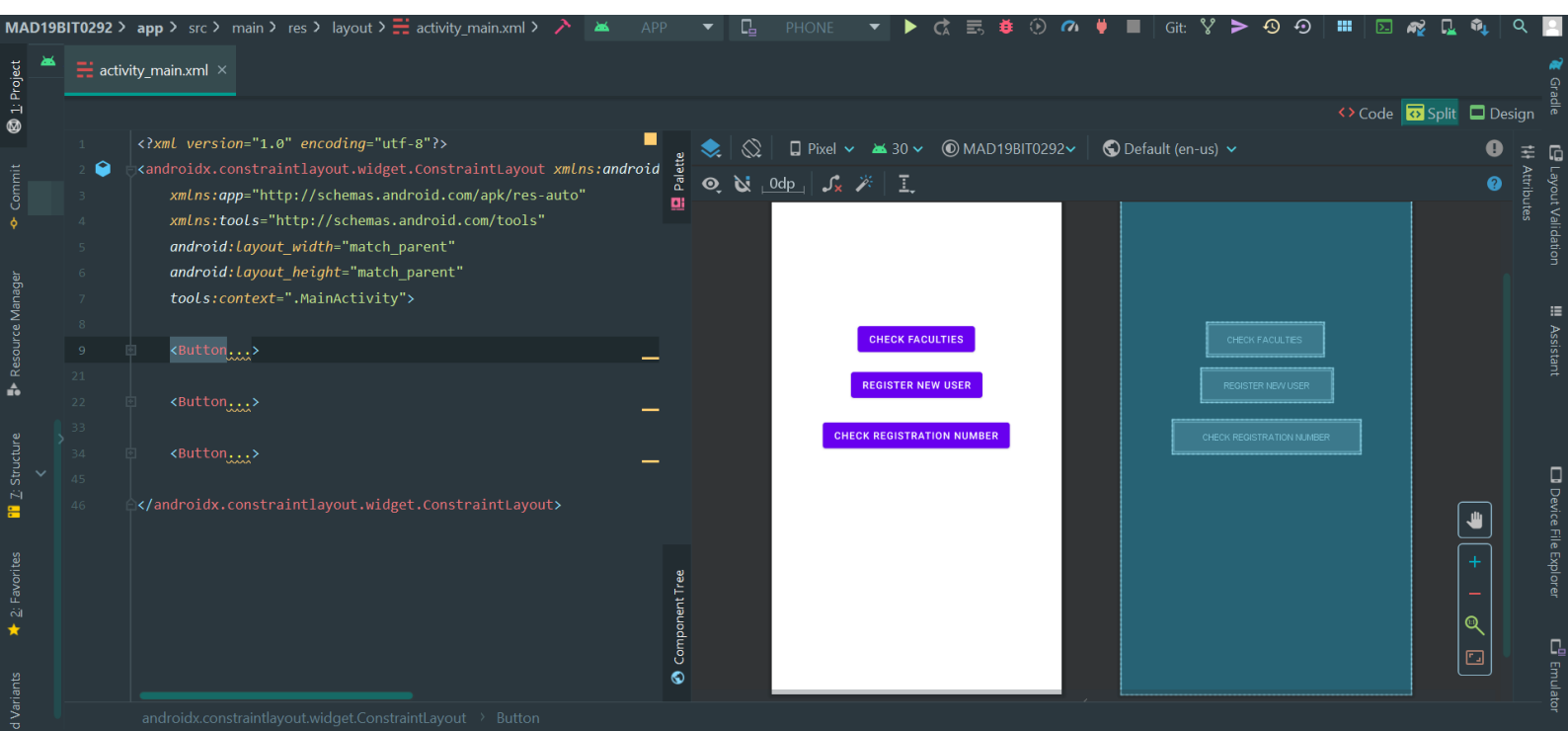
    <Button
        android:id="@+id/button3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="cf"
        android:text="Check Faculties"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.301" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="red"
        android:text="Check Registration Number"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.496"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="wr"
        android:text="REGISTER NEW USER"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.396" />

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

SCREENSHOT



Na.java

CODE

```
package com.example.mad19bit0292;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
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 Na extends AppCompatActivity {

    FirebaseDatabase database = FirebaseDatabase.getInstance("https://mad19bit0292-4a203-default-rtdb.asia-
```

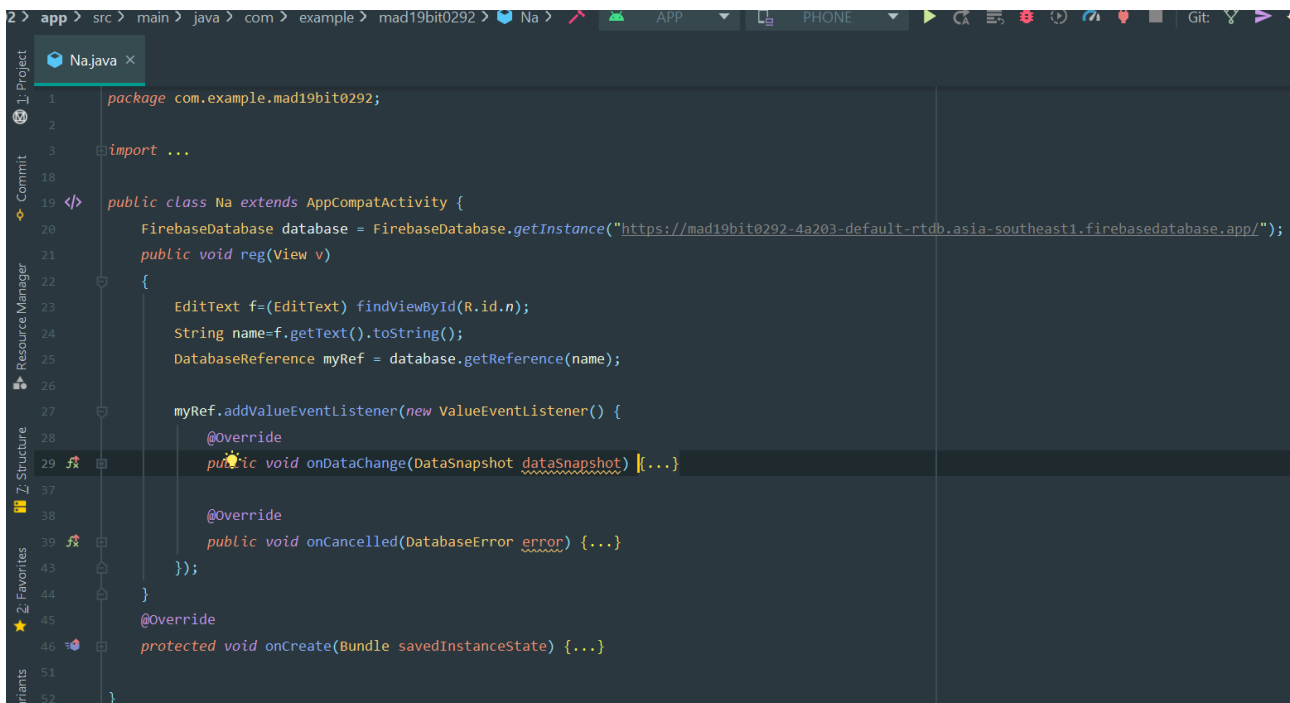
```

southeast1.firebaseio.com/");

    public void reg(View v)
    {
        EditText f=(EditText) findViewById(R.id.n);
        String name=f.getText().toString();
        DatabaseReference myRef = database.getReference(name);
        myRef.addValueEventListener(new ValueEventListener() {
            @Override
            public void onDataChange(DataSnapshot dataSnapshot) {
                // This method is called once with the initial value and again
                // whenever data at this location is updated.
                String value = dataSnapshot.getValue(String.class);
                Log.d(name, "Value is: " + value);
                TextView f=(TextView) findViewById(R.id.o);
                f.setText(value);
            }
            @Override
            public void onCancelled(DatabaseError error) {
                // Failed to read value
                Log.w(name, "Failed to read value.", error.toException()); } }));
    }
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_na);
    }
}

```

SCREENSHOT



activity_na.xml

CODE

```
<?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=".Na">

    <EditText
        android:id="@+id/n"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:ems="10"
        android:hint="Name"
        android:inputType="textPersonName"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.497"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.225" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:onClick="reg"
        android:text="Check"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
```



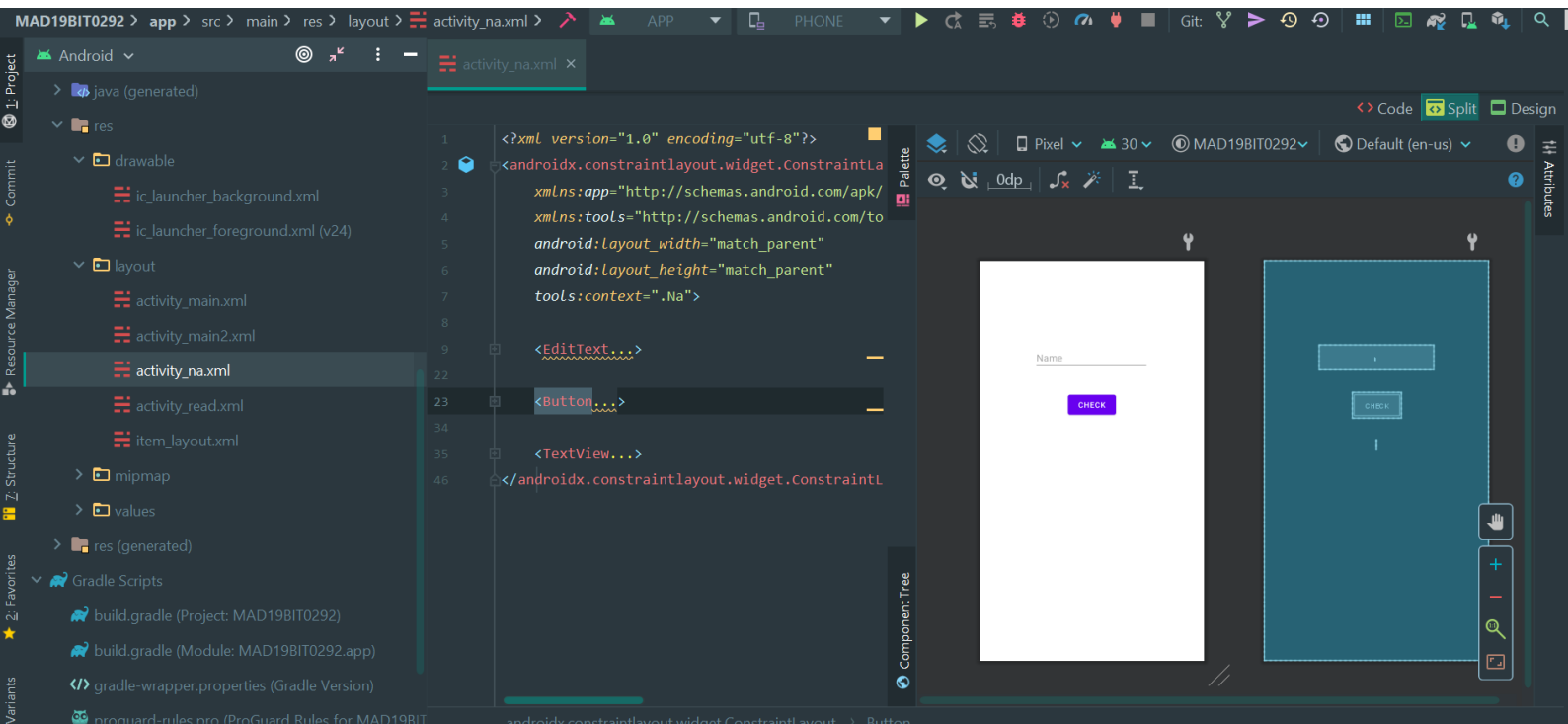
```

        app:layout_constraintTop_toBottomOf="@+id/n"
        app:layout_constraintVertical_bias="0.082" />
    <TextView
        android:id="@+id/o"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.498"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button"
        app:layout_constraintVertical_bias="0.094" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

SCREENSHOT



Read.java

CODE

```
package com.example.mad19bit0292;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
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;

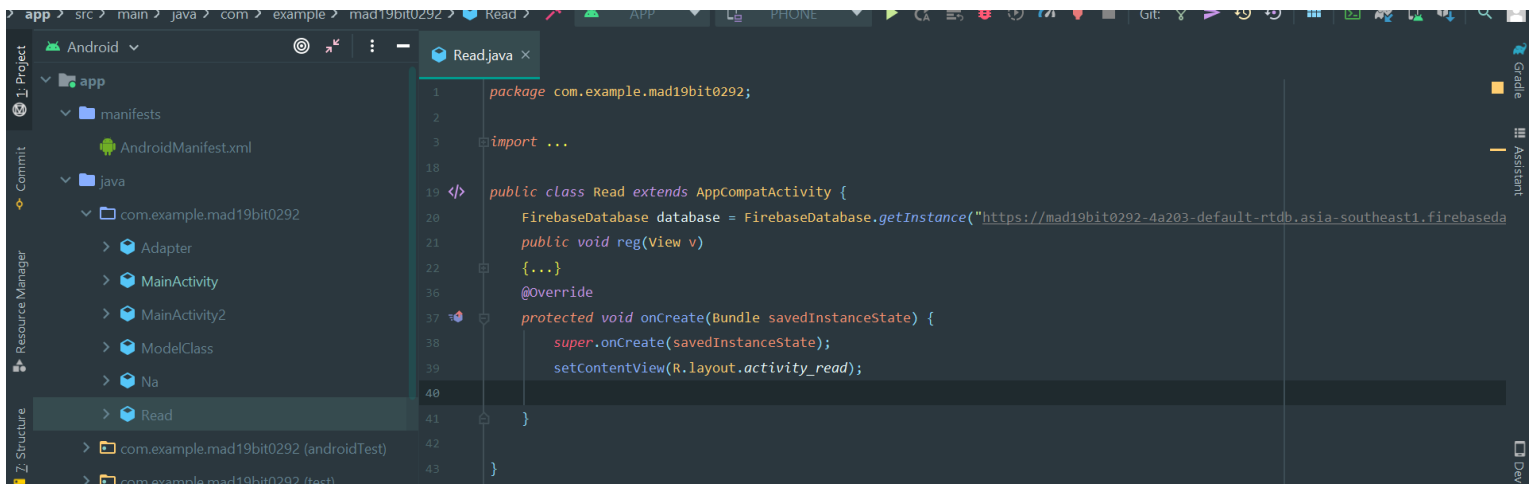
public class Read extends AppCompatActivity {

    FirebaseDatabase database = FirebaseDatabase.getInstance("https://mad19bit0292-4a203-default-rtdb.asia-southeast1.firebaseio.com/");

    public void reg(View v)
    {
        EditText f=(EditText) findViewById(R.id.n);
        String name=f.getText().toString();
        f=(EditText) findViewById(R.id.rn);
        String rgno=f.getText().toString();
        DatabaseReference myRef = database.getReference(name);
        myRef.setValue(rgno);
        Context context = getApplicationContext();
        CharSequence text = "Registered";
        int duration = Toast.LENGTH_SHORT;
        Toast toast = Toast.makeText(context, text, duration);
        toast.show();
    }

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

SCREENSHOT



activity_read.xml

CODE

```
<?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=".Read">
<EditText
    android:id="@+id/n"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:inputType="textPersonName"
    android:hint="Name"
    app:layout_constraintBottom_toTopOf="@+id/rn"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
```

```

        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.832" />

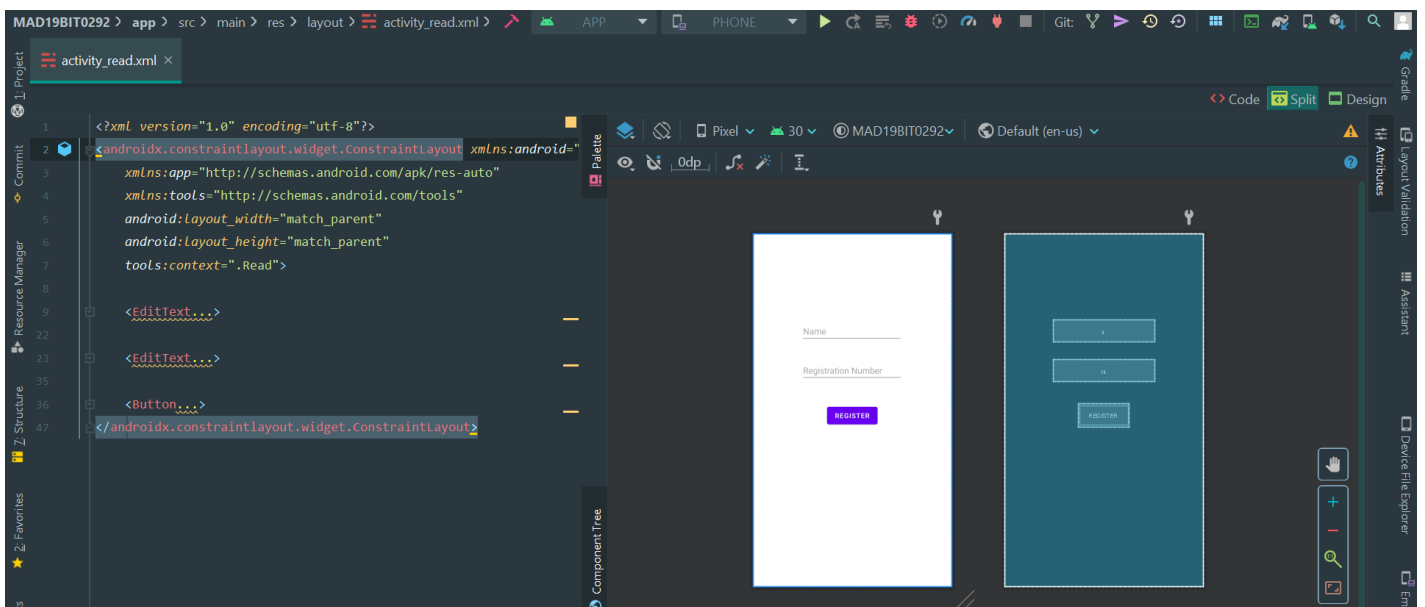
<EditText
    android:id="@+id/rn"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="260dp"
    android:ems="10"
    android:hint="Registration Number"
    android:inputType="textPersonName"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />

<Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="reg"
    android:text="Register"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/rn"
    app:layout_constraintVertical_bias="0.124" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

SCREENSHOT



ModelClass.java

CODE

```
package com.example.mad19bit0292;

public class ModelClass {

    private int imageResource;

    private String title;

    private String body;

    public ModelClass(int imageResource, String title, String body)
    {

        this.imageResource = imageResource;

        this.title = title;

        this.body = body;

    }

    public int getImageResource() {

        return imageResource;

    }

    public String getTitle() {

        return title;

    }

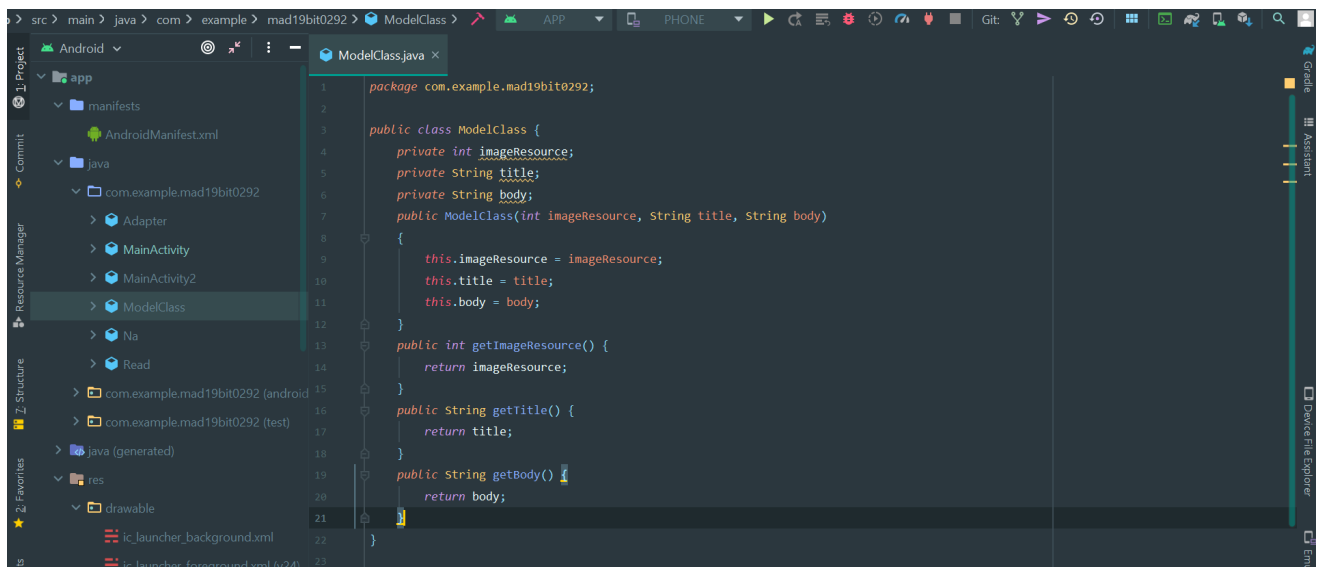
    public String getBody() {

        return body;

    }

}
```

SCREENSHOT



Adapter.java

CODE

```
package com.example.mad19bit0292;

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 java.util.List;

public class Adapter extends RecyclerView.Adapter<Adapter.Viewholder> {

    private List<ModelClass> modelClassList;

    public Adapter(List<ModelClass> modelClassList)
    {
        this.modelClassList = modelClassList;
    }

    @NonNull
    @Override
    public Viewholder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
        View view =
            LayoutInflater.from(parent.getContext()).inflate(R.layout.item_layout,parent,false)
            ;
        return new Viewholder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull Viewholder holder, int position) {
        int resource = modelClassList.get(position).getImageResource();
        String title = modelClassList.get(position).getTitle();
        String body = modelClassList.get(position).getBody();
        holder.setData(resource, title,body);
    }

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

```

    }

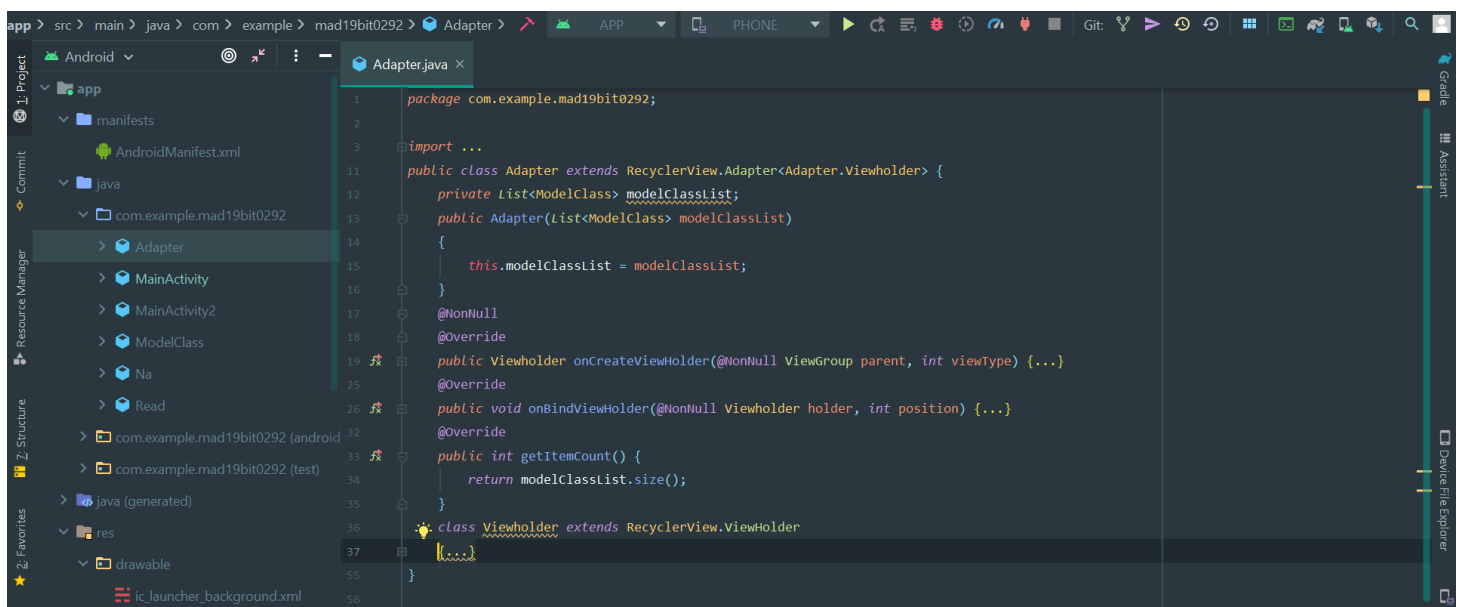
    class ViewHolder extends RecyclerView.ViewHolder
    {
        private ImageView imageView;
        private TextView title;
        private TextView body;
        public ViewHolder(@NonNull View itemView)
        {
            super(itemView);

            imageView = itemView.findViewById(R.id.imag_view);
            title = itemView.findViewById(R.id.title);
            body = itemView.findViewById(R.id.body);
        }

        private void setData(int resource,String titleText , String bodyText)
        {
            imageView.setImageResource(resource);
            title.setText(titleText);
            body.setText(bodyText);
        }
    }
}

```

SCREENSHOT



item_layout.xml

CODE

```
<?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="150dp"
    android:layout_marginTop="8dp"
    android:layout_marginBottom="8dp"
    android:background="#D4D6D8">
    <ImageView
        android:id="@+id/imag_view"
        android:layout_width="60dp"
        android:layout_height="60dp"
        android:layout_marginStart="16dp"
        android:layout_marginTop="16dp"
        android:layout_marginBottom="555dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0"
        app:srcCompat="@mipmap/ic_launcher" />
    <TextView
        android:id="@+id/title"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="16dp"
        android:layout_marginTop="16dp"
        android:text="TextView"
        android:textColor="#000000"
        android:textSize="26dp"
        android:textStyle="bold"
        app:layout_constraintStart_toEndOf="@+id/imag_view"
        app:layout_constraintTop_toTopOf="parent" />
```

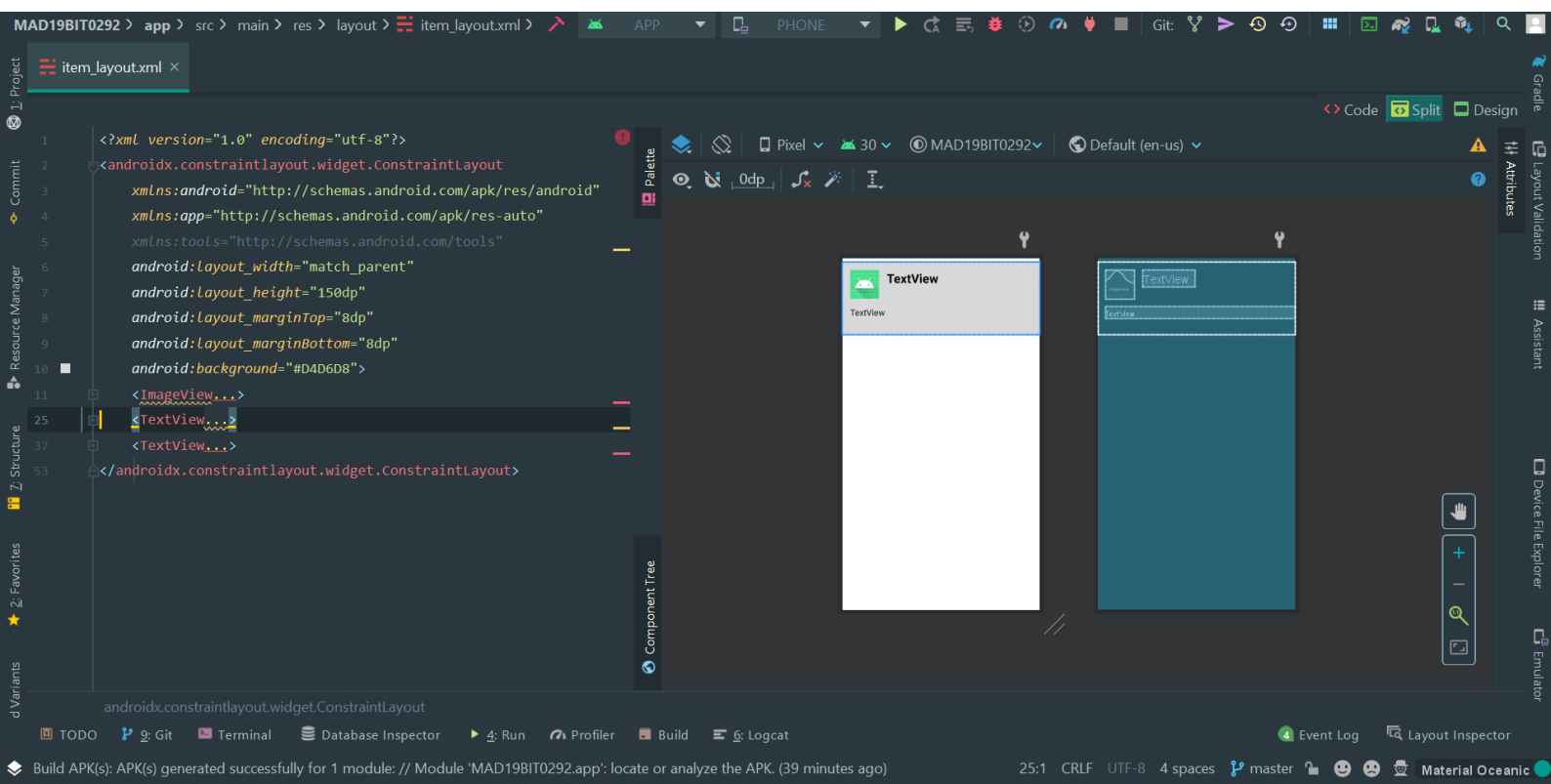


```

<TextView
    android:id="@+id/body"
    android:layout_width="0dp"
    android:layout_height="wrap_content"
    android:layout_marginStart="16dp"
    android:layout_marginTop="16dp"
    android:layout_marginBottom="16dp"
    android:text="TextView"
    android:textColor="#000000"
    android:textSize="18sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="1.0"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/imag_view"
    app:layout_constraintVertical_bias="0.0" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

SCREENSHOT



MainActivity2.java

CODE

```
package com.example.mad19bit0292;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.ItemTouchHelper;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import android.content.Intent;
import android.os.Bundle;

import android.view.View;
import android.widget.Toast;
import java.util.ArrayList;
import java.util.List;

public class MainActivity2 extends AppCompatActivity
{
    private RecyclerView recyclerView;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        recyclerView = findViewById(R.id.re);
        LinearLayoutManager layoutManager = new LinearLayoutManager(this);
        layoutManager.setOrientation((LinearLayoutManager.VERTICAL));
        recyclerView.setLayoutManager(layoutManager);
        final List<ModelClass> modelClassList = new ArrayList<>();
        modelClassList.add(new
            ModelClass(R.drawable.ic_launcher_background,"Prof. Sumit Yadav","Associate Professor Grade
1\nSchool of Information Technology"));
        modelClassList.add(new ModelClass(R.drawable.ic_launcher_background,"Dr. ABDUL GAFFAR
H","Assistant Professor Sr. Grade 2\nSchool of Bio Sciences"));
        modelClassList.add(new ModelClass(R.drawable.ic_launcher_background,"Ms. ADLA
PADMA","Assistant Professor (Junior)\nSchool of Information Technology"));
```

```

        modelClassList.add(new ModelClass(R.drawable.ic_launcher_background,"Dr.
ANANDAVEL K","Associate Professor Grade 1\nSchool of Mechanical Engineering"));

        modelClassList.add(new
ModelClass(R.drawable.ic_launcher_background,"Ms. ANJALI","Assistant Professor (Junior)\nSchool of Advanced
Sciences"));

        modelClassList.add(new
ModelClass(R.drawable.ic_launcher_background,"Dr. ARUNKUMAR PALANIAPPAN","Assistant Professor\nCentre
Molecular Theranostics"));

        modelClassList.add(new
ModelClass(R.drawable.ic_launcher_background,"Dr. BALAJI BALAKRISHNAN", "Assistant Professor Grade 1\
nSchool of Bio Sciences"));

        modelClassList.add(new
ModelClass(R.drawable.ic_launcher_background,"Dr. CHELLATAMILAN T","Associate Professor Grade 1\nSchool of
Information Technology"));

        modelClassList.add(new
ModelClass(R.drawable.ic_launcher_background,"Dr. DHANABAL R", "Assistant Professor Sr. Grade 1\nSchool
of Electronics Engineering"));

        final Adapter adapter = new Adapter(modelClassList);
        recyclerView.setAdapter(adapter);
        adapter.notifyDataSetChanged();
        new ItemTouchHelper(new ItemTouchHelper.SimpleCallback(0,ItemTouchHelper.LEFT) {

            @Override
            public boolean onMove(@NonNull RecyclerView recyclerView, @NonNull
RecyclerView.ViewHolder viewHolder, @NonNull
RecyclerView.ViewHolder target) {

                return false;}

            @Override
            public void onSwiped(@NonNull RecyclerView.ViewHolder viewHolder, int direction)
            {

                modelClassList.remove(viewHolder.getAdapterPosition());
                adapter.notifyDataSetChanged();

            }

        }).attachToRecyclerView(recyclerView);

        new ItemTouchHelper(new ItemTouchHelper.SimpleCallback(0,ItemTouchHelper.RIGHT) {

            @Override
            public boolean onMove(@NonNull RecyclerView recyclerView, @NonNull
RecyclerView.ViewHolder viewHolder, @NonNull RecyclerView.ViewHolder target) {

                return false;}

            @Override
            public void onSwiped(@NonNull RecyclerView.ViewHolder viewHolder, int direction)
            {

```

SCREENSHOT

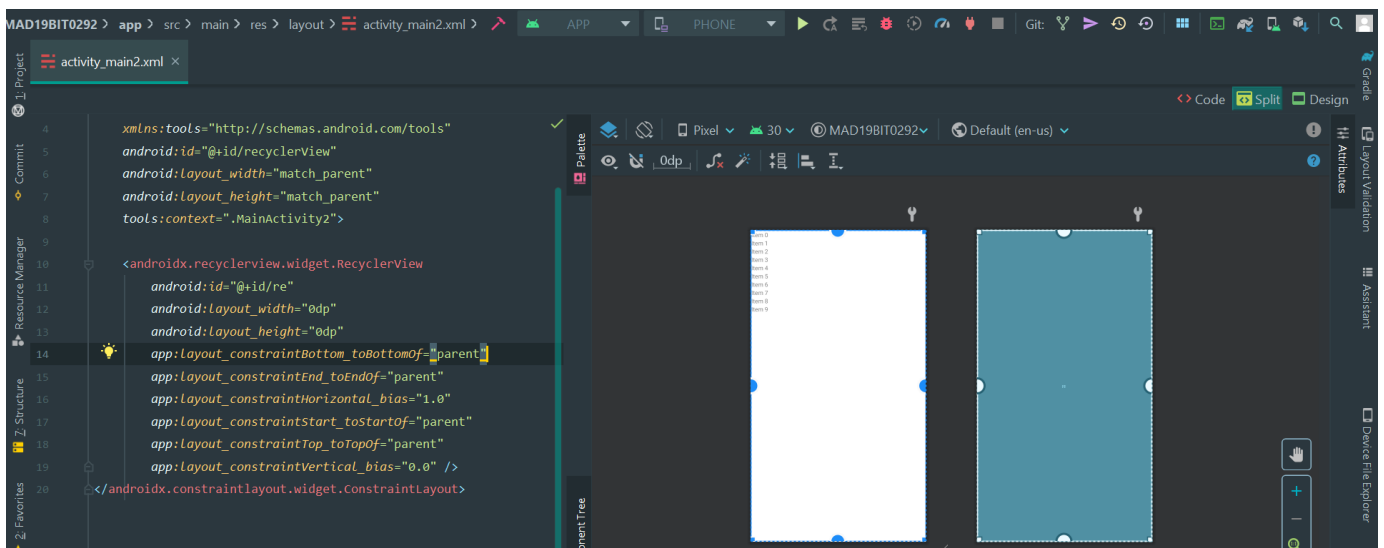


activity_main2.xml

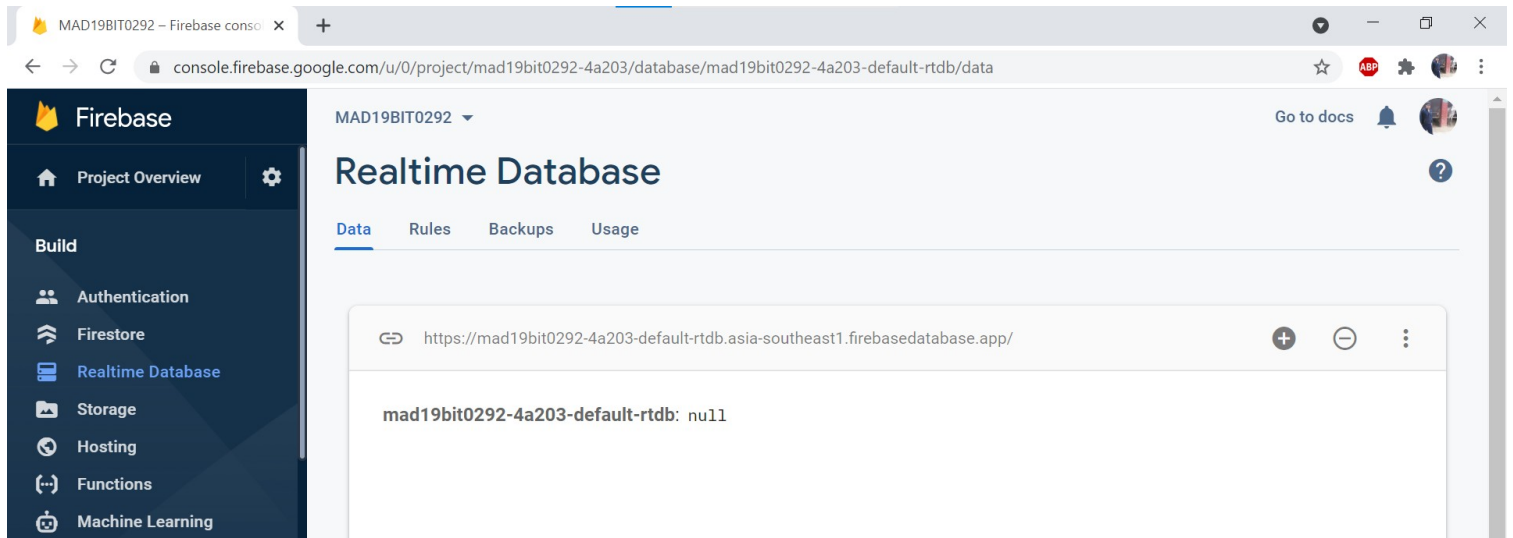
CODE

```
<?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:id="@+id/recyclerView"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity2">
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/re"
        android:layout_width="0dp"
        android:layout_height="0dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="1.0"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.0" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

SCREENSHOT



INITIAL STATE OF FIREBASE



AFTER OPENING THE APP

MAD19BIT0292

← REGISTER NEW USER

CHECK FACULTIES

REGISTER NEW USER

CHECK REGISTRATION NUMBER

Name

Registration Number

REGISTER



REGISTRATION

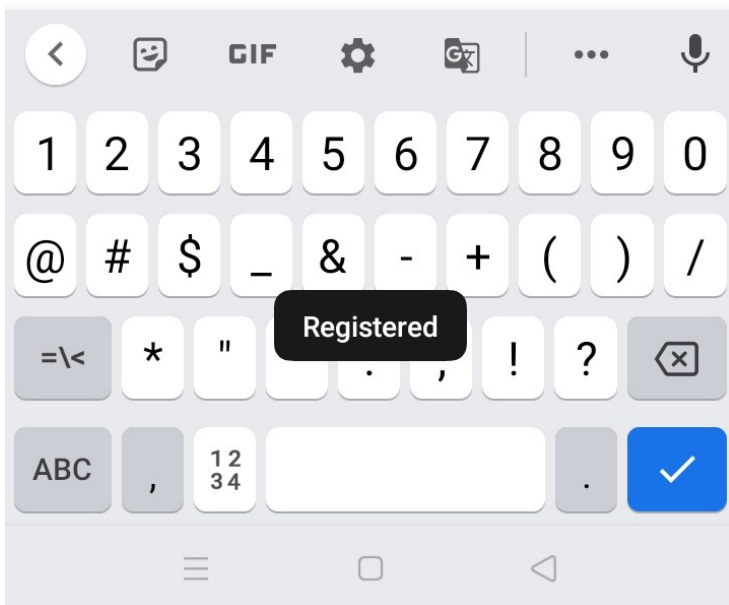


REGISTER NEW USER

Rahul Gupta

19BCW0283

REGISTER

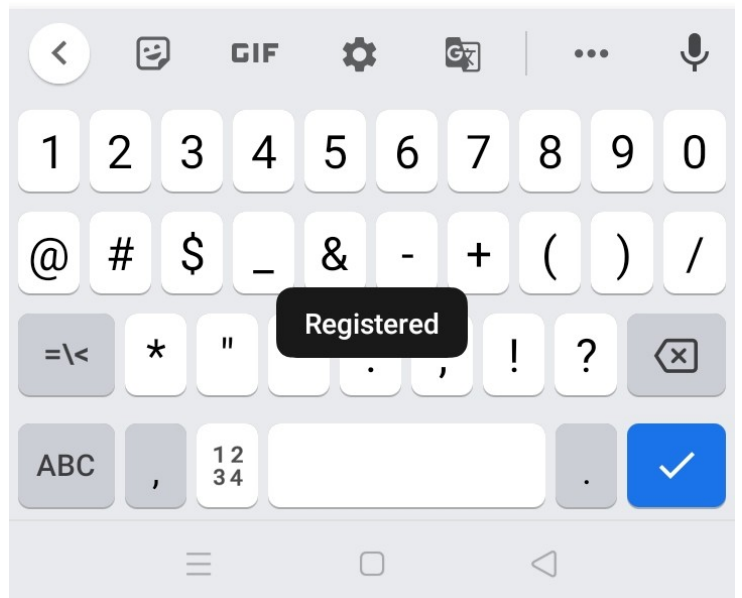


REGISTER NEW USER

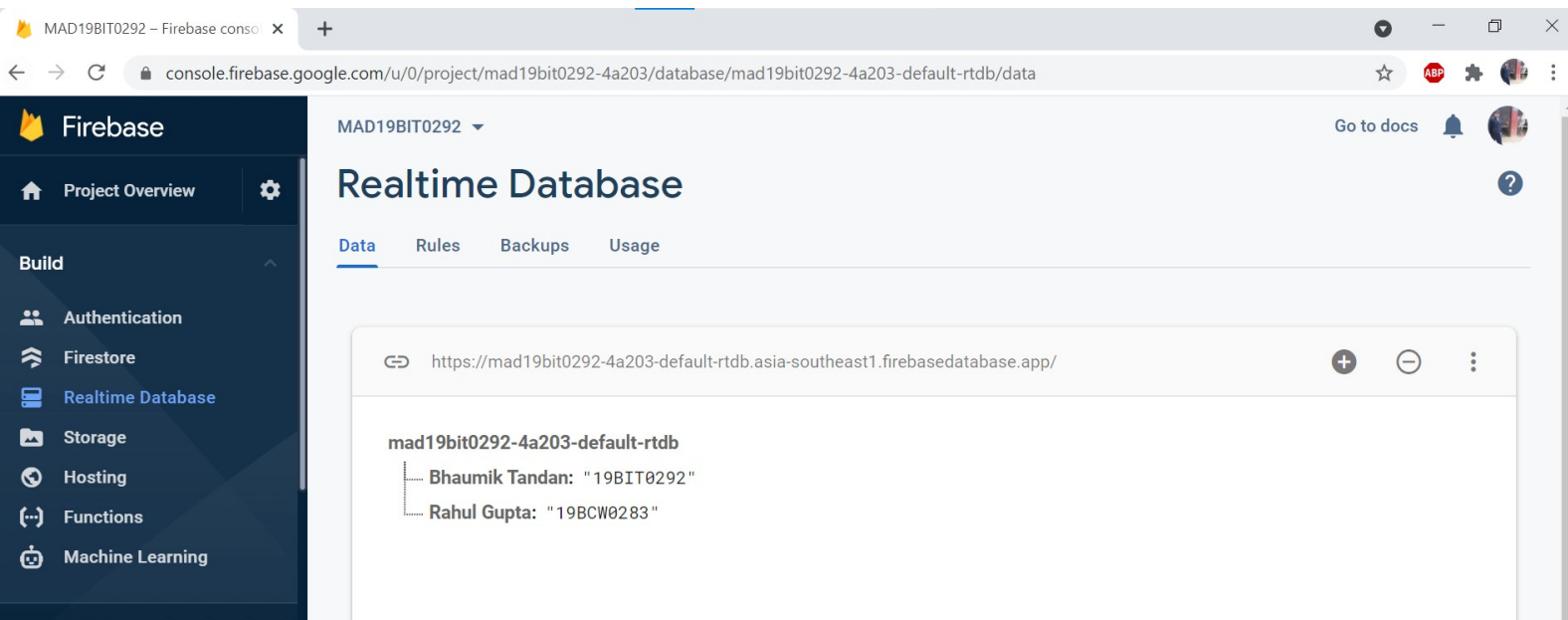
Bhaumik Tandan

19BIT0292

REGISTER



FIREBASE STATUS



CHECK REGISTRATION NUMBER

← CHECK REGISTRATION NU...

← CHECK REGISTRATION NU...

Name

CHECK

Bhaumik Tandan

CHECK



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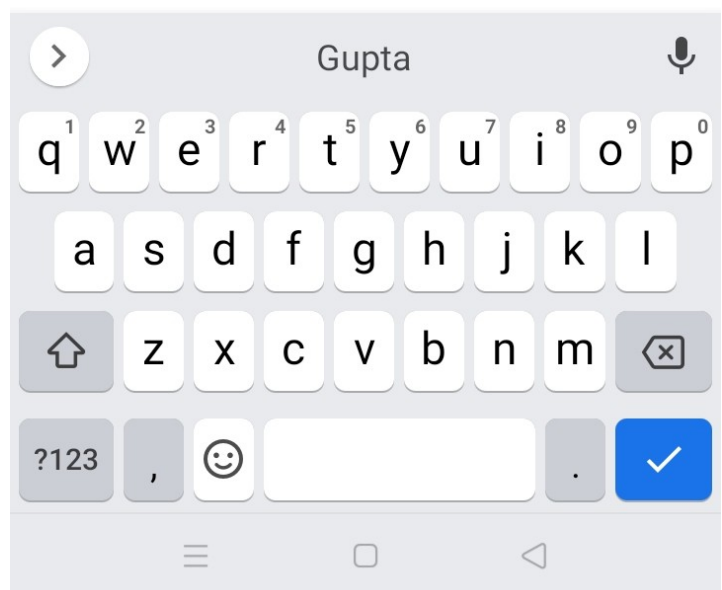


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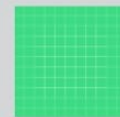
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Q3. HTML (Completion Screen)

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Basic HTML and HTML5

HTML is a markup language that uses a special syntax or notation to describe the structure of a webpage to the browser. HTML elements usually have opening and closing tags that surround and give meaning to content. For example, different elements can describe text as a heading, paragraph, or list item.

In this course, you'll build a cat photo app to learn some of the most common HTML elements — the building blocks of any webpage.

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Q4. CSS (Completion Screen)

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Basic CSS #

CSS, or Cascading Style Sheets, tell the browser how to display the text and other content that you write in HTML. With CSS, you can control the color, font, size, spacing, and many other aspects of HTML elements.

Now that you've described the structure of your cat photo app, give it some style with CSS.

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CERTIFICATE

freeCodeCamp (🔥)

Issued
May 6, 2021

This certifies that

Bhaumik Tandan

has successfully completed the
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Responsive Web Design

Developer Certification, representing
approximately 300 hours of coursework.



Quincy Larson

Executive Director, freeCodeCamp.org

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