**Book.java**

package com.example.hissss;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.ProgressDialog;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.OnSuccessListener;  
import com.google.android.gms.tasks.Task;  
import com.google.android.material.datepicker.MaterialDatePicker;  
import com.google.android.material.datepicker.MaterialPickerOnPositiveButtonClickListener;  
import com.google.firebase.auth.FirebaseAuth;  
import com.google.firebase.auth.FirebaseUser;  
import com.google.firebase.database.DataSnapshot;  
import com.google.firebase.database.DatabaseReference;  
import com.google.firebase.database.FirebaseDatabase;  
  
import java.util.HashMap;  
  
public class Book extends AppCompatActivity {  
  
 TextView selectedDate;  
 Button calenderButton,ok;  
 FirebaseAuth mAuth;  
 DatabaseReference docUser, patRef;  
 ProgressDialog loader;  
 FirebaseDatabase database= FirebaseDatabase.*getInstance*();  
 String Date;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_book*);  
  
 Intent intent = getIntent();  
  
 // receive the value by getStringExtra() method  
 // and key must be same which is send by first  
 // activity  
 String docEmail = intent.getStringExtra("message\_key1");  
 String patEmail = intent.getStringExtra("message\_key2");  
 String patname = intent.getStringExtra("message\_key2.1");  
  
 //Toast.makeText(Book.this, patname, Toast.LENGTH\_SHORT).show();  
  
 selectedDate=findViewById(R.id.*text*);  
 calenderButton=findViewById(R.id.*calender*);  
 ok=findViewById(R.id.*ok*);  
  
 loader = new ProgressDialog(this);  
 mAuth = FirebaseAuth.*getInstance*();  
  
 FirebaseUser user= mAuth.*getInstance*().getCurrentUser();  
 //docUser= database.getReference().child("Doctor Schedule");  
  
 MaterialDatePicker materialDatePicker=MaterialDatePicker.Builder.*datePicker*().  
 setTitleText("Select date").setSelection(MaterialDatePicker.*todayInUtcMilliseconds*()).build();  
  
 calenderButton.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 materialDatePicker.show(getSupportFragmentManager(),"Tag\_Picker");  
 materialDatePicker.addOnPositiveButtonClickListener(new MaterialPickerOnPositiveButtonClickListener() {  
 @Override  
 public void onPositiveButtonClick(Object selection) {  
 selectedDate.setText(materialDatePicker.getHeaderText());  
 Date=materialDatePicker.getHeaderText();  
 }  
 });  
 }  
 });  
  
 ok.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 if (Date != null) {  
  
 String currentUserId = mAuth.getCurrentUser().getUid();  
 docUser = database.getReference().child("Doctor Schedule").child(currentUserId);  
 //HashMap userInfo = new HashMap();  
 HashMap userInfo = new HashMap();  
 userInfo.put("Date", Date);  
 userInfo.put("Patient", patname);  
 userInfo.put("Email", patEmail);  
 userInfo.put("Doctor", docEmail);  
 userInfo.put("Status", "Pending");  
  
 docUser.updateChildren(userInfo).addOnCompleteListener(new OnCompleteListener() {  
 @Override  
 public void onComplete(@NonNull Task task) {  
 if (task.isSuccessful()) {  
 Toast.*makeText*(Book.this, "Appointment booked", Toast.*LENGTH\_SHORT*).show();  
  
 } else {  
 Toast.*makeText*(Book.this, task.getException().toString(), Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 }  
  
 });  
  
 patRef = database.getReference().child("Patient Appointments");  
  
 patRef.get().addOnCompleteListener(new OnCompleteListener<DataSnapshot>() {  
 @Override  
 public void onComplete(@NonNull Task<DataSnapshot> task) {  
 if (task.isSuccessful()) {  
 for (DataSnapshot ds : task.getResult().getChildren()) {  
 String pat = ds.child("Patient").getValue(String.class);  
  
 if(pat.equals(patEmail)){  
 HashMap update= new HashMap();  
 update.put("Date",Date);  
  
 String currentUserId = mAuth.getCurrentUser().getUid();  
 patRef.child(currentUserId).updateChildren(update).addOnSuccessListener(new OnSuccessListener() {  
 @Override  
 public void onSuccess(Object o) {  
 Intent intent= new Intent( Book.this, DoctorList.class);  
 intent.putExtra("message", Date);  
 startActivity(intent);  
 }  
 });  
  
 }  
  
 }  
  
 }  
  
 }  
 });  
  
  
 }  
  
 else {  
 Toast.*makeText*(Book.this, "Select date!", Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 //finish();  
  
 }  
 });  
 }  
}

**DoctorList.java**

package com.example.hissss;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.app.ProgressDialog;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import com.google.android.gms.tasks.OnCompleteListener;  
import com.google.android.gms.tasks.Task;  
import com.google.android.material.datepicker.MaterialDatePicker;  
import com.google.android.material.datepicker.MaterialPickerOnPositiveButtonClickListener;  
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;  
  
public class DoctorList extends AppCompatActivity {  
  
  
 TextView doc1,doc2,doc3,doc4;  
 FirebaseAuth mAuth;  
 DatabaseReference patUser;  
 ProgressDialog loader;  
 FirebaseDatabase database= FirebaseDatabase.*getInstance*();  
 String Date;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_doctor\_list*);  
  
 Intent intent = getIntent();  
  
 // receive the value by getStringExtra() method  
 // and key must be same which is send by first  
 // activity  
 String email = intent.getStringExtra("message\_key");//patient email  
 String name = intent.getStringExtra("message\_key.1");//patient name  
  
 doc1=findViewById(R.id.*doc1*);  
 doc2=findViewById(R.id.*doc2*);  
 doc3=findViewById(R.id.*doc3*);  
 doc4=findViewById(R.id.*doc4*);  
  
 loader = new ProgressDialog(this);  
 mAuth = FirebaseAuth.*getInstance*();  
  
 FirebaseUser user= mAuth.*getInstance*().getCurrentUser();  
 //patUser= database.getReference().child("Patient Appointments");  
  
 doc1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 loader.setMessage("Please wait....");  
 loader.setCanceledOnTouchOutside(false);  
 loader.show();  
  
 Intent intent= new Intent( DoctorList.this, Book.class);  
 intent.putExtra("message\_key1", "elise@doc.com");  
 intent.putExtra("message\_key2", email);  
 intent.putExtra("message\_key2.1", name);  
 startActivity(intent);  
  
 // create the get Intent object  
 Intent intent1 = getIntent();  
  
 // receive the value by getStringExtra() method  
 // and key must be same which is send by first  
 // activity  
 Date = intent1.getStringExtra("message");  
 //Toast.makeText(PatientPage.this, str, Toast.LENGTH\_SHORT).show();  
  
 String currentUserId = mAuth.getCurrentUser().getUid();  
 patUser= database.getReference().child("Patient Appointments").child(currentUserId);  
 //HashMap userInfo = new HashMap();  
 HashMap userInfo = new HashMap();  
 userInfo.put("Date",Date);  
 userInfo.put("Patient",email);  
 userInfo.put("Doctor","Dr.Elise Heather");  
 userInfo.put("Phone","5925866");  
 userInfo.put("Status","Pending");  
  
 patUser.updateChildren(userInfo).addOnCompleteListener(new OnCompleteListener() {  
 @Override  
 public void onComplete(@NonNull Task task) {  
 if (task.isSuccessful()){  
 Toast.*makeText*(DoctorList.this, "Little more to go....", Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 else{  
 Toast.*makeText*(DoctorList.this, task.getException().toString(), Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 }  
  
 });  
  
 loader.dismiss();  
 //finish();  
  
 //Intent intent2= new Intent( DoctorList.this, PatientPage.class);  
 //startActivity(intent2);  
  
 }  
  
 });  
  
 doc2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 loader.setMessage("Please wait....");  
 loader.setCanceledOnTouchOutside(false);  
 loader.show();  
  
 Intent intent= new Intent( DoctorList.this, Book.class);  
 intent.putExtra("message\_key1", "brook@gm.com");  
 intent.putExtra("message\_key2", email);  
 intent.putExtra("message\_key2.1", name);  
 startActivity(intent);  
  
 // create the get Intent object  
 Intent intent1 = getIntent();  
  
 // receive the value by getStringExtra() method  
 // and key must be same which is send by first  
 // activity  
 Date = intent1.getStringExtra("message");  
 //Toast.makeText(PatientPage.this, str, Toast.LENGTH\_SHORT).show();  
  
 String currentUserId = mAuth.getCurrentUser().getUid();  
 patUser= database.getReference().child("Patient Appointments").child(currentUserId);  
 //HashMap userInfo = new HashMap();  
 HashMap userInfo = new HashMap();  
 userInfo.put("Date",Date);  
 userInfo.put("Patient",email);  
 userInfo.put("Doctor","Dr.Brooklyn Masefield");  
 userInfo.put("Phone","89659");  
 userInfo.put("Status","Pending");  
  
 patUser.updateChildren(userInfo).addOnCompleteListener(new OnCompleteListener() {  
 @Override  
 public void onComplete(@NonNull Task task) {  
 if (task.isSuccessful()){  
 Toast.*makeText*(DoctorList.this, "Little more to go....", Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 else{  
 Toast.*makeText*(DoctorList.this, task.getException().toString(), Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 }  
  
 });  
  
 loader.dismiss();  
 //finish();  
  
 //Intent intent2= new Intent( DoctorList.this, PatientPage.class);  
 //startActivity(intent2);  
  
 }  
 });  
  
 doc3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 loader.setMessage("Please wait....");  
 loader.setCanceledOnTouchOutside(false);  
 loader.show();  
  
 Intent intent= new Intent( DoctorList.this, Book.class);  
 intent.putExtra("message\_key1", "vani@gh.com");  
 intent.putExtra("message\_key2", email);  
 intent.putExtra("message\_key2.1", name);  
 startActivity(intent);  
  
 // create the get Intent object  
 Intent intent1 = getIntent();  
  
 // receive the value by getStringExtra() method  
 // and key must be same which is send by first  
 // activity  
 Date = intent1.getStringExtra("message");  
 //Toast.makeText(PatientPage.this, str, Toast.LENGTH\_SHORT).show();  
  
 String currentUserId = mAuth.getCurrentUser().getUid();  
 patUser= database.getReference().child("Patient Appointments").child(currentUserId);  
 //HashMap userInfo = new HashMap();  
 HashMap userInfo = new HashMap();  
 userInfo.put("Date",Date);  
 userInfo.put("Patient",email);  
 userInfo.put("Doctor","Dr.Vanitha");  
 userInfo.put("Phone","865865");  
 userInfo.put("Status","Pending");  
  
 patUser.updateChildren(userInfo).addOnCompleteListener(new OnCompleteListener() {  
 @Override  
 public void onComplete(@NonNull Task task) {  
 if (task.isSuccessful()){  
 Toast.*makeText*(DoctorList.this, "Little more to go....", Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 else{  
 Toast.*makeText*(DoctorList.this, task.getException().toString(), Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 }  
  
 });  
  
 loader.dismiss();  
 //finish();  
  
 //Intent intent2= new Intent( DoctorList.this, PatientPage.class);  
 //startActivity(intent2);  
  
 }  
 });  
  
 doc4.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 loader.setMessage("Please wait....");  
 loader.setCanceledOnTouchOutside(false);  
 loader.show();  
  
 Intent intent= new Intent( DoctorList.this, Book.class);  
 intent.putExtra("message\_key1", "austin@mu.in");  
 intent.putExtra("message\_key2", email);  
 intent.putExtra("message\_key2.1", name);  
 startActivity(intent);  
  
 // create the get Intent object  
 Intent intent1 = getIntent();  
  
 // receive the value by getStringExtra() method  
 // and key must be same which is send by first  
 // activity  
 Date = intent1.getStringExtra("message");  
 //Toast.makeText(PatientPage.this, str, Toast.LENGTH\_SHORT).show();  
  
 String currentUserId = mAuth.getCurrentUser().getUid();  
 patUser= database.getReference().child("Patient Appointments").child(currentUserId);  
 //HashMap userInfo = new HashMap();  
 HashMap userInfo = new HashMap();  
 userInfo.put("Date",Date);  
 userInfo.put("Patient",email);  
 userInfo.put("Doctor","Dr.Austin R.P.");  
 userInfo.put("Phone","56599");  
 userInfo.put("Status","Pending");  
  
 patUser.updateChildren(userInfo).addOnCompleteListener(new OnCompleteListener() {  
 @Override  
 public void onComplete(@NonNull Task task) {  
 if (task.isSuccessful()){  
 Toast.*makeText*(DoctorList.this, "Little more to go....", Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 else{  
 Toast.*makeText*(DoctorList.this, task.getException().toString(), Toast.*LENGTH\_SHORT*).show();  
  
 }  
  
 }  
  
 });  
  
 loader.dismiss();  
 //finish();  
  
 //Intent intent2= new Intent( DoctorList.this, PatientPage.class);  
 //startActivity(intent2);  
  
 }  
 });  
  
 }  
 }