

MAIN ACTIVITIES:

APPHOME:

```
package com.example.bookeasy;
import
androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class appHome extends AppCompatActivity
{

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

    }

    public void roomHome(View view){

        Intent homeRoom = new
Intent(appHome.this,roomHome.class);
        startActivity(homeRoom);
    }

    public void table(View view){

        Intent homeTable = new
Intent(appHome.this,start.class);
        startActivity(homeTable);
    }

    public void account(View view){

        Intent homeAccount = new
Intent(appHome.this,Profile.class);
        startActivity(homeAccount);
    }

    public void food(View view){

        Intent homeFood = new
Intent(appHome.this,foodHome.class);
        startActivity(homeFood);
    }
}
```

BOOK ROOM:

```
package com.example.bookeasy;

import
```

```
androidx.appcompat.app.AppCompatActivity;
```

```
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
```

```
public class appHome extends AppCompatActivity
{

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

    }

    public void roomHome(View view){

        Intent homeRoom = new
Intent(appHome.this,roomHome.class);
        startActivity(homeRoom);
    }

    public void table(View view){

        Intent homeTable = new
Intent(appHome.this,start.class);
        startActivity(homeTable);
    }

    public void account(View view){

        Intent homeAccount = new
Intent(appHome.this,Profile.class);
        startActivity(homeAccount);
    }

    public void food(View view){

        Intent homeFood = new
Intent(appHome.this,foodHome.class);
        startActivity(homeFood);
    }
}
```

CONFIRMEDBOOKING:

```
package com.example.bookeasy;
```

```
import
androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
```

```

import android.view.View;

public class confirmedBooking extends
AppCompatActivity {

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_confirmed_booki
ng);
    }

    public void Home(View view){

        Intent intent = new
Intent(confirmedBooking.this,start.class);
        startActivity(intent);

    }

    public void viewBookings(View view){

        Intent intent = new
Intent(confirmedBooking.this,viewBookings.class);
        startActivity(intent);

    }
}

```

CUSTOMER:

```

package com.example.bookeasy;
public class Customer {

    private String name;
    private String email;
    private String password;
    private String telephone;

    public Customer() {

    }

    public String getName() {
        return name;
    }

    public String getEmail() {
        return email;
    }

    public String getPassword() {
        return password;
    }
}

```

```

    public String getTelephone() {
        return telephone;
    }

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

    public void setEmail(String email) {
        this.email = email;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    public void setTelephone(String telephone) {
        this.telephone = telephone;
    }
}

```

DELETE:

```

package com.example.bookeasy;
import
androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.Toast;
import
com.google.firebase.database.DatabaseReference;
import
com.google.firebase.database.FirebaseDatabase;

```

```

public class Delete extends AppCompatActivity {

    DatabaseReference dbRef;
    Button delete;

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

        delete = findViewById(R.id.delete);

        dbRef =
FirebaseDatabase.getInstance().getReference().chil
d("student").child("1");

        delete.setOnClickListener(new
View.OnClickListener() {

```

```

        public void onClick(View v){

            dbRef =
            FirebaseDatabase.getInstance().getReference().child("student");

            dbRef.child("1").removeValue();
            Toast.makeText(Delete.this, "
            Successfully Removed",
            Toast.LENGTH_SHORT).show();

            Intent intent=new
            Intent(Delete.this,Login.class);
            startActivity(intent);

        }

    });

}
}

```

FOOD:

```
package com.example.bookeasy;
```

```
public class Food {
```

```

    private String foodname;
    private String qty;
    private String type;
    private String price;

```

```

    public String getPrice() {
        return price;
    }

```

```

    public void setPrice(String price) {
        this.price = price;
    }

```

```

    public Food() {
    }

```

```

    public String getFoodname() {
        return foodname;
    }

```

```

    public void setFoodname(String foodname) {
        this.foodname = foodname;
    }

```

```

    public String getQty() {
        return qty;
    }

    public void setQty(String qty) {
        this.qty = qty;
    }

    public String getType() {
        return type;
    }

    public void setType(String type) {
        this.type = type;
    }
}

```

FOODLIST:

```
package com.example.bookeasy;
```

```

import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;

```

```

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

```

```

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 food_list extends AppCompatActivity
{

```

```

    TextView fname,qty,type,price;
    DatabaseReference dbRef;

```

```

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

```

```

        fname= findViewById(R.id.fname);

```

```

        qty= findViewById(R.id.qty);
        price= findViewById(R.id.price);
        type= findViewById(R.id.type);

        dbRef =
        FirebaseDatabase.getInstance().getReference().child("Food").child("1");
        dbRef.addValueEventListener(new
        ValueEventListener() {
            @Override
            public void onDataChange(@NonNull
            DataSnapshot dataSnapshot) {
                String foodname =
                dataSnapshot.child("foodname").getValue().toString();
                String qtyf =
                dataSnapshot.child("qty").getValue().toString();
                String typf =
                dataSnapshot.child("type").getValue().toString();

                int prz;
                String prizeS;

                if(foodname.equals("Submarine")) {

                    prz= Integer.parseInt(qtyf)*500;
                    prizeS = String.valueOf(prz);

                }else if(foodname.equals("Burger")){
                    prz= Integer.parseInt(qtyf)*300;
                    prizeS = String.valueOf(prz);

                }else{
                    prz= Integer.parseInt(qtyf)*200;
                    prizeS = String.valueOf(prz);

                }
                fname.setText(foodname);
                qty.setText(qtyf);
                price.setText(prizeS);
                type.setText(typf);

            }

            @Override
            public void onCancelled(@NonNull
            DatabaseError databaseError) {

            }

        });
    }

    public void backFHome(View view){

        Intent intent = new

```

```

        Intent(this,foodHome.class);
        startActivity(intent);
    }

    public void update(View view){

        Intent intent = new
        Intent(this,foodUpdate.class);
        startActivity(intent);
    }

    public void delete(View view){

        Intent intent = new
        Intent(this,foodHome.class);
        startActivity(intent);
    }
}

FOOD HOME:

package com.example.bookeasy;

import
androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class foodHome extends
AppCompatActivity {

    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_food_home);
    }

    public void orderFood(View view){

        Intent main = new
        Intent(foodHome.this,orderFood.class);
        startActivity(main);
    }

    public void orderFoodlist(View view){

        Intent main = new
        Intent(foodHome.this,food_list.class);
        startActivity(main);
    }

    public void MainAct(View view){

```

```

        Intent main = new
Intent(foodHome.this,appHome.class);
        startActivity(main);
    }
}

FOOD UPDATE:

package com.example.bookeasy;

import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
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 foodUpdate extends
AppCompatActivity {

    EditText qty;
    TextView fname,type;
    Button update;
    Food foodClass;
    RadioGroup ftype,food;
    RadioButton radioOption,radioOptionType;
    String foodName,foodType;
    DatabaseReference dbRef;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_food_update);

        fname = findViewById(R.id.flav);
        type=findViewById(R.id.typeUpdate);
        qty = findViewById(R.id.qty);
        ftype = findViewById(R.id.prefRadioGrp);
        food =

```

```

findViewById(R.id.packageRadioGroup);
        update = findViewById(R.id.updateFood);

        //food radio
        food.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener(){
            @Override
            public void
onCheckedChanged(RadioGroup radioGroup, int i)
            {

                radioOption = food.findViewById(i);

                switch (i) {

                    case R.id.Submarine:
                        foodName =
radioOption.getText().toString();
                        break;

                    case R.id.Burger:
                        foodName =
radioOption.getText().toString();
                        break;

                    case R.id.Sandwich:
                        foodName =
radioOption.getText().toString();
                        break;

                    default:

                }
            }
        });

        //food Type
        ftype.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener() {
            @Override
            public void
onCheckedChanged(RadioGroup radioGroup, int i)
            {

                radioOptionType =
ftype.findViewById(i);

                switch (i) {

                    case R.id.Veg:
                        foodType =
radioOptionType.getText().toString();
                        break;

                    case R.id.Non_Veg:

```

```

        foodType =
radioOptionType.getText().toString();
        break;

        default:
    }
}
});

//show oredor details
dbRef =
FirebaseDatabase.getInstance().getReference().chil
d("Food").child("1");
dbRef.addValueEventListener(new
ValueEventListener() {
    @Override
    public void onDataChange(@NonNull
DataSnapshot dataSnapshot) {
        String foodname =
dataSnapshot.child("foodname").getValue().toStrin
g();

        String qtyf =
dataSnapshot.child("qty").getValue().toString();
        String typf =
dataSnapshot.child("type").getValue().toString();
        fname.setText(foodname);
        qty.setText(qtyf);
        type.setText(typf);

    }

    @Override
    public void onCancelled(@NonNull
DatabaseError databaseError) {

    }
});

//send data to database
foodClass = new Food();

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

        dbRef =
FirebaseDatabase.getInstance().getReference().chil
d("Food");

        foodClass.setFoodname(foodName.trim());

        foodClass.setQty(qty.getText().toString().trim());

```

```

        foodClass.setType(foodType.trim());
        // foodClass.setPrice(prize.trim());

        dbRef.child("1").setValue(foodClass);
        Toast.makeText(foodUpdate.this, "Order
Update Successfully",
        Toast.LENGTH_LONG).show();

        Intent intent = new
        Intent(foodUpdate.this,food_list.class);
        startActivity(intent);
    }
});

    }
}

LOGIN:

package com.example.bookeasy;
import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
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 Login extends AppCompatActivity {

    EditText email,password;
    Button button;
    Customer customer;
    String email1;
    String password1;
    DatabaseReference dbref;

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

```

```

        email = findViewById(R.id.emaillog);
        password = findViewById(R.id.passwordlog);
        button = findViewById(R.id.button);

        dbref =
        FirebaseDatabase.getInstance().getReference().child(
        "Customer").child("1");

        dbref.addValueEventListener(new
        ValueEventListener() {
            @Override
            public void onDataChange(@NonNull
            DataSnapshot dataSnapshot) {

                email1 =
                dataSnapshot.child("email").getValue().toString();
                password1 =
                dataSnapshot.child("password").getValue().toString
                ();
            }

            @Override
            public void onCancelled(@NonNull
            DatabaseError databaseError) {

            }
        });

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

                boolean x = validateLogin();

                if(x==true){
                    Intent intent1 = new Intent(Login.this,
                    appHome.class);
                    startActivity(intent1);
                }else{
                    Toast.makeText(Login.this, "Invalid
                    email or password",
                    Toast.LENGTH_SHORT).show();
                }
            }
        });

        private boolean validateLogin(){

            String inputEmail = email.getText().toString();
            String inputPassword =

```

```

password.getText().toString();

            if(inputEmail.equals(email1) &&
            inputPassword.equals(password1)) {
                return true;
            }else if(inputEmail.isEmpty() ||
            inputPassword.isEmpty()){
                email.setError("Feild can't be empty");
                password.setError("Feild can't be empty");
                return false;
            }else{
                return false;
            }
        }

        public void ResetPassword(View view) {
            Intent intent3 = new Intent(this,
            ResetPassword.class);
            startActivity(intent3);
        }

        public void Register(View view) {
            Intent intent4 = new Intent(this,
            Register.class);
            startActivity(intent4);
        }
    }
}

```

MAINACTIVITY:

```

package com.example.bookeasy;

import
androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.content.Intent;
import android.view.View;

public class MainActivity extends
AppCompatActivity {

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

    public void Login(View view) {
        Intent intent1 = new Intent(this, Login.class);
        startActivity(intent1);
    }
}

```

```

    public void Register(View view) {
        Intent intent2 = new Intent(this,
            Register.class);
        startActivity(intent2);
    }
}

ORDER FOOD:

package com.example.bookeasy;

import
androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.Toast;
import
com.google.firebase.database.DatabaseReference;
import
com.google.firebase.database.FirebaseDatabase;

public class orderFood extends AppCompatActivity
{

    RadioButton radioOption, radioOptionType;
    RadioGroup food, ftype;
    EditText qty;
    Button send;
    Food foodClass;
    DatabaseReference dbRef;
    String prize, qtyString;
    String qtyFood, totPrize;
    String foodName;
    String foodType;
    Integer prizeq;
    Integer fqty;
    String prizef;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_order_food);
        food =
findViewById(R.id.packageRadioGroup);
        qty = findViewById(R.id.qty);
        ftype = findViewById(R.id.prefRadioGrp);
        send = findViewById(R.id.next);

```

```

        //fqty =
Integer.parseInt(qty.getText().toString());

        //food radio
        food.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener(){
            @Override
            public void
onCheckedChanged(RadioGroup radioGroup, int i)
            {

                radioOption = food.findViewById(i);

                switch (i) {

                    case R.id.Submarine:
                        foodName =
radioOption.getText().toString();

                        break;

                    case R.id.Burger:
                        foodName =
radioOption.getText().toString();

                        break;

                    case R.id.Sandwich:
                        foodName =
radioOption.getText().toString();

                        break;

                    default:
                        foodName="not work";

                }
            }
        });

        //food Type
        ftype.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener() {
            @Override
            public void
onCheckedChanged(RadioGroup radioGroup, int i)
            {

                radioOptionType =
ftype.findViewById(i);

                switch (i) {

                    case R.id.Veg:

```



```

        foodType =
radioOptionType.getText().toString();
        break;

        case R.id.Non_Veg:
            foodType =
radioOptionType.getText().toString();
            break;

        default:
            foodType="not work";

    }
}
});

//send data to database
foodClass = new Food();

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

        boolean check = validateForm();

        if (check == true) {

            dbRef =
FirebaseDatabase.getInstance().getReference().child("Food");

            foodClass.setFoodname(foodName.trim());

            foodClass.setQty(qty.getText().toString().trim());
            foodClass.setType(foodType.trim());

            dbRef.child("1").setValue(foodClass);
            Toast.makeText(orderFood.this,
"Ordered Successfully",
Toast.LENGTH_LONG).show();

            Intent main = new
Intent(orderFood.this, food_list.class);
            startActivity(main);
        }
    }
});

private boolean validateForm(){

    String qtyF = qty.getText().toString();

```

```

        if(qtyF.isEmpty()){
            qty.setError("Feild can't be empty");

            return false;
        }else{
            return true;
        }
    }
}

```

PROFILE:

```

package com.example.bookeasy;
import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;
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.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 Profile extends AppCompatActivity {

    TextView name,email,password,telephone;
    DatabaseReference dbRef;
    Customer customer;
    Button update;

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

        name = findViewById(R.id.name);
        email = findViewById(R.id.email);
        password = findViewById(R.id.password);
        telephone = findViewById(R.id.telephone);
        update = findViewById(R.id.save);

```

```

        dbRef =
        FirebaseDatabase.getInstance().getReference().child("Customer").child("1");

        dbRef.addValueEventListener(new
        ValueEventListener() {
            @Override
            public void onDataChange(@NonNull
            DataSnapshot dataSnapshot) {
                String name1 =
                dataSnapshot.child("name").getValue().toString();
                String email1 =
                dataSnapshot.child("email").getValue().toString();
                String password1 =
                dataSnapshot.child("password").getValue().toString();
                String telephone1 =
                dataSnapshot.child("telephone").getValue().toString();

                name.setText(name1);
                email.setText(email1);
                password.setText(password1);
                telephone.setText(telephone1);
            }

            @Override
            public void onCancelled(@NonNull
            DatabaseError databaseError) {

            }
        });

        customer = new Customer();

        update.setOnClickListener(new
        View.OnClickListener() {

            public void onClick(View v) {

                dbRef =
                FirebaseDatabase.getInstance().getReference().child("Customer");

                customer.setName(name.getText().toString().trim());

                customer.setEmail(email.getText().toString().trim());

                customer.setPassword(password.getText().toString().trim());

                customer.setTelephone(telephone.getText().toString()

```

```

                ().trim());

                dbRef.child("1").setValue(customer);
                Toast.makeText(Profile.this, "Update
                Successfully.....",
                Toast.LENGTH_SHORT).show();
            }
        });

        public void Delete(View view) {
            Intent intent4 = new Intent(this, Delete.class);
            startActivity(intent4);
        }

        public void Home(View view) {
            Intent intent4 = new Intent(this, Login.class);
            startActivity(intent4);
        }
    }
}

```

REGISTER:

```

package com.example.bookeasy;

import
androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.util.Patterns;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import
com.google.firebase.database.DatabaseReference;
import
com.google.firebase.database.FirebaseDatabase;

public class Register extends AppCompatActivity {

    EditText name,email,password,telephone;
    Button signup;
    Customer customer;
    DatabaseReference dbRef;

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

```

```

        name = findViewById(R.id.name);
        email = findViewById(R.id.email);
        password = findViewById(R.id.password);
        telephone = findViewById(R.id.telephone);
        signup = findViewById(R.id.signup);

        customer = new Customer();

        signup.setOnClickListener(new
        View.OnClickListener() {

            public void onClick(View v) {

                boolean x = validateForm();

                if(x == true) {
                    dbRef =
                    FirebaseDatabase.getInstance().getReference().child("Customer");

                    customer.setName(name.getText().toString().trim());

                    customer.setEmail(email.getText().toString().trim());

                    customer.setPassword(password.getText().toString().trim());

                    customer.setTelephone(telephone.getText().toString().trim());

                    dbRef.child("1").setValue(customer);
                    Toast.makeText(Register.this, "Data
                    Saved Successfully",
                    Toast.LENGTH_SHORT).show();

                    Intent intent = new Intent(Register.this,
                    Login.class);
                    startActivity(intent);

                }

            }

        });

        private boolean validateForm() {

            String inputEmail = email.getText().toString();
            String inputName = name.getText().toString();
            String inputPassword =
            password.getText().toString();
            String inputTelephone =

```

```

            telephone.getText().toString();

            if(inputEmail.isEmpty() ||
            inputName.isEmpty() || inputPassword.isEmpty() ||
            inputTelephone.isEmpty() ) {
                email.setError("Feild can't be empty");
                name.setError("Feild can't be empty");
                password.setError("Feild can't be empty");
                telephone.setError("Feild can't be empty
                !");
                return false;
            } else
            if(!Patterns.EMAIL_ADDRESS.matcher(inputEmail).matches()) {
                email.setError("Please enter a valid email
                address");
                return false;
            } else if(!(telephone.length()==10)) {
                telephone.setError("Invalid Telephone
                Number");
                return false;
            } else {
                email.setError(null);
                return true;
            }
        }

        public void Login(View view) {
            Intent intent1 = new Intent(this, Login.class);
            startActivity(intent1);
        }
    }
}

```

RESET PASSWORD:

```

package com.example.bookeasy;

import
androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class ResetPassword extends
AppCompatActivity {

    @Override
    protected void onCreate(Bundle
    savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_reset_password);
    }
}

```

ROOM:

```

package com.example.bookeasy;

public class Room {

    private String checkinDate;
    private String checkoutDate;
    private String packages;
    private String noOfRoom;
    private String preference;

    public Room() {
    }

    public String getCheckinDate() {
        return checkinDate;
    }

    public void setCheckinDate(String checkinDate)
    {
        this.checkinDate = checkinDate;
    }

    public String getCheckoutDate() {
        return checkoutDate;
    }

    public void setCheckoutDate(String
checkoutDate) {
        this.checkoutDate = checkoutDate;
    }

    public String getPackages() {
        return packages;
    }

    public void setPackages(String packages) {
        this.packages = packages;
    }

    public String getNoOfRoom() {
        return noOfRoom;
    }

    public void setNoOfRoom(String noOfRoom) {
        this.noOfRoom = noOfRoom;
    }

    public String getPreference() {
        return preference;
    }

    public void setPreference(String preference) {
        this.preference = preference;
    }
}

```

ROOMBOOKLIST:

```

package com.example.bookeasy;

import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;

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

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 roomBookList extends
AppCompatActivity {

    TextView cIn,cOut,rooms,pack,pref;
    DatabaseReference dbRef;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_room_book_list)
        ;

        cIn = findViewById(R.id.checkInDate);
        cOut = findViewById(R.id.checkOutDate);
        pack = findViewById(R.id.packages);
        rooms = findViewById(R.id.noRoom);
        pref = findViewById(R.id.preference);

        dbRef =
FirebaseDatabase.getInstance().getReference().chil
d("Room").child("1");
        dbRef.addValueEventListener(new
ValueEventListener() {
            @Override
            public void onDataChange(@NonNull
DataSnapshot dataSnapshot) {
                String in =
dataSnapshot.child("checkinDate").getValue().toStr
ing();

```

```

        String out =
dataSnapshot.child("checkoutDate").getValue().toString();
        String pack_s =
dataSnapshot.child("packages").getValue().toString();
        String nRoom =
dataSnapshot.child("noOfRoom").getValue().toString();
        String prefs =
dataSnapshot.child("preference").getValue().toString();

        cIn.setText(in);
        cOut.setText(out);
        pack.setText(pack_s);
        rooms.setText(nRoom);
        pref.setText(prefs);
    }

    @Override
    public void onCancelled(@NonNull DatabaseError databaseError) {

    }
});
}

public void updateBook(View view){

    Intent upBook = new
Intent(roomBookList.this,updateBooking.class);
    startActivity(upBook);
}

public void backHome(View view){
    Intent intent=new
Intent(roomBookList.this,appHome.class);
    startActivity(intent);
}

}

ROOMHOME:

package com.example.bookeasy;

import
androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class roomHome extends

```

```

AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_room_home);
    }

    public void bookRoom(View view){

        Intent intent = new
Intent(roomHome.this,bookRoom.class);
        startActivity(intent);
    }

    public void bookList(View view){

        Intent bList = new
Intent(roomHome.this,roomBookList.class);
        startActivity(bList);
    }

    public void MainAct(View view){

        Intent main = new
Intent(roomHome.this,appHome.class);
        startActivity(main);
    }
}

START:

package com.example.bookeasy;

import
androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class start extends AppCompatActivity {

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

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

```

```

    }

    public void checkBooking(View view){
        Intent intent = new Intent(start.this,
viewBookings.class);
        startActivity(intent);
    }
}

```

STARTBOOKING:

```
package com.example.bookeasy;
```

```
import
androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TimePicker;
import android.widget.Toast;
import
com.google.firebase.database.DatabaseReference;
import
com.google.firebase.database.FirebaseDatabase;
import java.util.Calendar;
```

```
public class startBooking extends
AppCompatActivity {
```

```

    EditText date;
    EditText time;
    EditText guest;
    RadioGroup event;
    RadioGroup location;
    RadioButton radioOption;
    RadioButton radioOption2;
```

```

    Button done, btn, TimeBtn;
    DatabaseReference dbRef;
    Table tbl;
```

```

    private String eventType= "";
    private String locationType= "";
```

```

    Calendar c;
    DatePickerDialog dp;

    Context context = this;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_start_booking);

        date = findViewById(R.id.DateeditText);
        time = findViewById(R.id.TimeeditText);
        guest =
findViewById(R.id.NoOfGuesteditText);
        event = findViewById(R.id.specialEvents);
        location = findViewById(R.id.location);

        done = findViewById(R.id.buttonNext);

        btn = (Button)
findViewById(R.id.UDatebutton);
        TimeBtn = (Button)
findViewById(R.id.UTimebutton);

        Calendar calendar = Calendar.getInstance();
        final int hour =
calendar.get(Calendar.HOUR_OF_DAY);
        final int minute =
calendar.get(Calendar.MINUTE);

        event.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener() {
            @Override
            public void
onCheckedChanged(RadioGroup radioGroup, int i)
            {

                radioOption = event.findViewById(i);

                switch (i){

                    case R.id.radioBirthDay:
                        eventType =
radioOption.getText().toString();

                        break;

                    case R.id.radioParty:
                        eventType =
radioOption.getText().toString();

                        break;
```

```

        default:

    }

}

});

location.setOnCheckedChangeListener(new
RadioGroup.OnCheckedChangeListener() {
    @Override
    public void
onCheckedChanged(RadioGroup radioGroup, int i)
{

        radioOption2 =
location.findViewById(i);

        switch (i){

            case R.id.radioIndoor:
                locationType =
radioOption2.getText().toString();

                break;

            case R.id.radioOutdoor:
                locationType =
radioOption2.getText().toString();
                break;

            default:

        }

    }

});

tbl = new Table();

done.setOnClickListener(new
View.OnClickListener() {

    public void onClick(View v) {

        boolean check = validateForm();

        if (check == true) {

            dbRef =
FirebaseDatabase.getInstance().getReference().chil
d("Table");

```

```

tbl.setDate(date.getText().toString().trim());

tbl.setTime(time.getText().toString().trim());

tbl.setGuest(guest.getText().toString().trim());
tbl.setEvent(eventType.trim());
tbl.setLocation(locationType.trim());

dbRef.child("tbl").setValue(tbl);

Toast.makeText(startBooking.this,
"Data Saved Successfully",
Toast.LENGTH_SHORT).show();
//clearControls();
Intent intent = new
Intent(startBooking.this, confirmedBooking.class);
startActivity(intent);

    }

}

});

//Date Picker
btn.setOnClickListener(new
View.OnClickListener() {
    @Override
    public void onClick(View view) {

        c = Calendar.getInstance();
        int day =
c.get(Calendar.DAY_OF_MONTH);
        int month = c.get(Calendar.MONTH);
        int year = c.get(Calendar.YEAR);

        dp = new
DatePickerDialog(startBooking.this, new
DatePickerDialog.OnDateSetListener() {
            @Override
            public void onDateSet(DatePicker
datePicker, int Year, int Month, int Date) {

                date.setText(Date + "/" + (Month+1)
+ "/" + Year);
            }

        }, day, month, year);

        dp.show();
    }
}

```

```

    });

    //Time Picker
    TimeBtn.setOnClickListener(new
    View.OnClickListener() {
        @Override
        public void onClick(View view) {

            TimePickerDialog timePickerDialog =
            new TimePickerDialog(context, new
            TimePickerDialog.OnTimeSetListener() {
                @Override
                public void onTimeSet(TimePicker
            timePicker, int hour, int minute) {

                    time.setText(hour + ":" + minute);
                }
            },hour,minute,
            android.text.format.DateFormat.is24HourFormat(c
            ontext));

            timePickerDialog.show();
        }
    });

}

public void startWindow(View view){

    Intent intent = new
    Intent(startBooking.this,start.class);
    startActivity(intent);

}

private boolean validateForm(){

    String date_t = date.getText().toString();
    String time_t = time.getText().toString();
    String guest_t = guest.getText().toString();

    if(date_t.isEmpty() || time_t.isEmpty() ||
    guest_t.isEmpty()){
        time.setError("Feild can't be empty");
        date.setError("Feild can't be empty");
        guest.setError("Feild can't be empty");

        return false;
    }else{
        return true;
    }
}

```

```

}

```

TABLE:

```

package com.example.bookeasy;

```

```

public class Table {

    private String date;
    private String time;
    private String guest;
    private String event;
    private String location;

    public Table() {

    }

    public String getDate() {
        return date;
    }

    public void setDate(String date) {
        this.date = date;
    }

    public String getTime() {
        return time;
    }

    public void setTime(String time) {
        this.time = time;
    }

    public String getGuest() {
        return guest;
    }

    public void setGuest(String guest) {
        this.guest = guest;
    }

    public String getEvent() {
        return event;
    }

    public void setEvent(String event) {
        this.event = event;
    }

    public String getLocation() {
        return location;
    }

}

```



```

        public void setLocation(String location) {
            this.location = location;
        }

    }

UPDATEBOOKING:

package com.example.bookeasy;

import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.CheckBox;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
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;

import java.util.Calendar;

public class updateBooking extends
AppCompatActivity {

    EditText in,out,nRoom;
    TextView packView,prefView;
    RadioGroup pack,pref;
    RadioButton radioOption,radioOptionPref;
    Button senDbBtn, checkin, checkout;
    String packType,prefType;
    Room room;

```

```

    DatabaseReference dbRef;

    Calendar c;
    DatePickerDialog dp;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_update_booking)
        ;

        in = findViewById(R.id.checkinText);
        out = findViewById(R.id.checkoutText);
        nRoom = findViewById(R.id.noRoom);
        pack =
findViewById(R.id.packageRadioGroup);
        pref = findViewById(R.id.prefRadioGrp);
        packView = findViewById(R.id.packdata);
        prefView = findViewById(R.id.prefdata);
        senDbBtn = findViewById(R.id.update);

        checkin = (Button)
findViewById(R.id.checkin);
        checkout = (Button)
findViewById(R.id.checkout);

        Calendar calendar = Calendar.getInstance();

        dbRef =
FirebaseDatabase.getInstance().getReference().child(
"Room").child("1");
        dbRef.addValueEventListener(new
ValueEventListener() {
            @Override
            public void onDataChange(@NonNull
DataSnapshot dataSnapshot) {
                String cin =
dataSnapshot.child("checkinDate").getValue().toStr
ing();

                String cout =
dataSnapshot.child("checkoutDate").getValue().toS
tring();

                String pack_s =
dataSnapshot.child("packages").getValue().toStrin
g();

                String room =
dataSnapshot.child("noOfRoom").getValue().toStri
ng();

                String pref_s =
dataSnapshot.child("preference").getValue().toStrin
g();

                in.setText(cin);

```

```

        out.setText(cout);
        nRoom.setText(room);
        packView.setText(pack_s);
        prefView.setText(pref_s);
    }

    @Override
    public void onCancelled(@NonNull
    DatabaseError databaseError) {

    }

    //pref Radio
    pref.setOnCheckedChangeListener(new
    RadioGroup.OnCheckedChangeListener() {
        @Override
        public void
        onCheckedChanged(RadioGroup radioGroup, int i)
        {

            radioOptionPref = pref.findViewById(i);

            switch (i){

                case R.id.BreakFast_Lunch:
                    prefType =
                    radioOptionPref.getText().toString();

                    break;

                case R.id.Dinner:
                    prefType =
                    radioOptionPref.getText().toString();
                    break;

                case R.id.All:
                    prefType =
                    radioOptionPref.getText().toString();
                    break;

                default:

            }

        }
    });

    //update
    //radio button
    pack.setOnCheckedChangeListener(new
    RadioGroup.OnCheckedChangeListener() {
        @Override
        public void
        onCheckedChanged(RadioGroup radioGroup, int i)

```

```

    {

        radioOption = pack.findViewById(i);

        switch (i){

            case R.id.gold:
                packType =
                radioOption.getText().toString();

                break;

            case R.id.silver:
                packType =
                radioOption.getText().toString();
                break;

            case R.id.regular:
                packType =
                radioOption.getText().toString();
                break;

            default:

        }

    });

    //send data to database
    room = new Room();

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

            dbRef =
            FirebaseDatabase.getInstance().getReference().child("Room");

            room.setCheckinDate(in.getText().toString().trim())
            ;

            room.setCheckoutDate(out.getText().toString().trim()
            ());

            room.setPackages(packType.trim());

            room.setNoOfRoom(nRoom.getText().toString().trim());

            room.setPreference(prefType.trim());

            dbRef.child("1").setValue(room);
            Toast.makeText(updateBooking.this,

```

```

"Update Successfully",
Toast.LENGTH_LONG).show();

        Intent bookList = new
Intent(updateBooking.this,roomBookList.class);
        startActivity(bookList);
    }
});

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

        c = Calendar.getInstance();
        int day =
c.get(Calendar.DAY_OF_MONTH);
        int month = c.get(Calendar.MONTH);
        int year = c.get(Calendar.YEAR);

        dp = new
DatePickerDialog(updateBooking.this, new
DatePickerDialog.OnDateSetListener() {
            @Override
            public void onDateSet(DatePicker
datePicker, int Year, int Month, int Date) {

                in.setText(Date + "/" + (Month+1) +
"/" + Year);
            }

            }, day, month, year);

            dp.show();
        }

    });

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

        c = Calendar.getInstance();
        int day =
c.get(Calendar.DAY_OF_MONTH);
        int month = c.get(Calendar.MONTH);
        int year = c.get(Calendar.YEAR);

        dp = new
DatePickerDialog(updateBooking.this, new
DatePickerDialog.OnDateSetListener() {
            @Override
            public void onDateSet(DatePicker
datePicker, int Year, int Month, int Date) {

```

```

                out.setText(Date + "/" + (Month+1)
+ "/" + Year);
            }

            }, day, month, year);

            dp.show();
        }

    });
}

UPDATEBOOKINGT:

package com.example.bookeasy;

import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.app.TimePickerDialog;
import android.content.Context;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.TimePicker;
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;

import java.util.Calendar;

public class updateBookingT extends
AppCompatActivity {

    EditText
editDate,editTime,editGuest,editEvent,editLocation
;

    DatabaseReference dbRef;

```

```

Table tbl;
Button update;
//Button delete;

Button delete,Datebtn,TmBtn;

Calendar c;
DatePickerDialog dp;

Context context = this;

@Override
protected void onCreate(Bundle
savedInstanceState) {
    super.onCreate(savedInstanceState);

setContentView(R.layout.activity_update_booking
_t);

    editDate = findViewById(R.id.UpdateDate);
    editTime = findViewById(R.id.UpdateTime);
    editGuest = findViewById(R.id.UpdateGuest);
    editEvent = findViewById(R.id.UpdateEvent);
    editLocation =
findViewById(R.id.UpdateLocation);

    update =
findViewById(R.id.updateBtnNextR);
    delete = findViewById(R.id.deleteBtnNext);

    Datebtn = (Button)
findViewById(R.id.UDatebutton);
    TmBtn = (Button)
findViewById(R.id.UTimebutton);

    Calendar calendar = Calendar.getInstance();
    final int hour =
calendar.get(Calendar.HOUR_OF_DAY);
    final int minute =
calendar.get(Calendar.MINUTE);

    dbRef =
FirebaseDatabase.getInstance().getReference().chil
d("Table").child("tbl");
    dbRef.addValueEventListener(new
ValueEventListener() {
        @Override
        public void onDataChange(@NonNull
DataSnapshot dataSnapshot) {
            String Edate =
dataSnapshot.child("date").getValue().toString();
            String Etime =

```

```

dataSnapshot.child("time").getValue().toString();
            String Eguest =
dataSnapshot.child("guest").getValue().toString();
            String Eevent =
dataSnapshot.child("event").getValue().toString();
            String Elocation =
dataSnapshot.child("location").getValue().toString(
);
            //String pref_1 =
dataSnapshot.child("lunch").getValue().toString();
            //String pref_d =
dataSnapshot.child("dinner").getValue().toString();

            editDate.setText(Edate);
            editTime.setText(Etime);
            editGuest.setText(Eguest);
            editEvent.setText(Eevent);
            editLocation.setText(Elocation);
            //pref.setText(pref_b+" , "+pref_1+" and
"+pref_d);

        }

        @Override
        public void onCancelled(@NonNull
DatabaseError databaseError) {

        }
    });

    tbl = new Table();

    update.setOnClickListener(new
View.OnClickListener() {

        public void onClick(View v) {

            dbRef =
FirebaseDatabase.getInstance().getReference().chil
d("Table");
            tbl.setDate(editDate.getText().toString().trim());
            tbl.setTime(editTime.getText().toString().trim());
            tbl.setGuest(editGuest.getText().toString().trim());
            tbl.setEvent(editEvent.getText().toString().trim());
            tbl.setLocation(editLocation.getText().toString().tri
m());

            dbRef.child("tbl").setValue(tbl);

            //dbRef.push().child("Table").setValue("Male");
            //
            dbRef.push().child("tbl").setValue("eventType");

            Toast.makeText(updateBookingT.this,
            "Data Updated Successfully",
            Toast.LENGTH_SHORT).show();
            //clearControls();

```

```

        Intent intent = new
Intent(updateBookingT.this,viewBookings.class);
        startActivity(intent);

    }

});

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

        //deleteTbl();

        //dbRef =
FirebaseDatabase.getInstance().getReference().child("Table");
        dbRef.removeValue();

        //dbRef.child("tbl").removeValue();
        Toast.makeText(updateBookingT.this,
        "Data Deleted Successfully",
        Toast.LENGTH_SHORT).show();

        Intent intent = new
Intent(updateBookingT.this,startBooking.class);
        startActivity(intent);

    }
});

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

        c = Calendar.getInstance();
        int day =
c.get(Calendar.DAY_OF_MONTH);
        int month = c.get(Calendar.MONTH);
        int year = c.get(Calendar.YEAR);

        dp = new
DatePickerDialog(updateBookingT.this, new
DatePickerDialog.OnDateSetListener() {
            @Override
            public void onDateSet(DatePicker
datePicker, int Year, int Month, int Date) {

                editDate.setText(Date + "/" +
        (Month+1) + "/" + Year);
            }

        }, day, month, year);

```

```

        dp.show();
    }

});

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

        TimePickerDialog timePickerDialog =
new TimePickerDialog(context, new
TimePickerDialog.OnTimeSetListener() {
            @Override
            public void onTimeSet(TimePicker
timePicker, int hour, int minute) {

                editTime.setText(hour + ":" +
        minute);
            }
        },hour,minute,
        android.text.format.DateFormat.is24HourFormat(c
        ontext));

        timePickerDialog.show();
    }
});

}

VIEWBOOKINGS:

package com.example.bookeasy;

import androidx.annotation.NonNull;
import
androidx.appcompat.app.AppCompatActivity;

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.firebase.database.DatabaseError;
import
com.google.firebase.database.DatabaseReference;
import
com.google.firebase.database.FirebaseDatabase;
import
com.google.firebase.database.DataSnapshot;
import
com.google.firebase.database.ValueEventListener;

```

```

public class viewBookings extends
AppCompatActivity {

    TextView date,time,guest,event,location;

    //Table tbl;
    DatabaseReference dbRef;
    Button delete;

    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_view_bookings);

        date = findViewById(R.id.dateView);
        time = findViewById(R.id.timeView);
        guest = findViewById(R.id.guestView);
        event = findViewById(R.id.EventView);
        location = findViewById(R.id.LocationView);

        delete = findViewById(R.id.deleteBtnNext);

        dbRef =
FirebaseDatabase.getInstance().getReference().child("Table").child("tbl");
        dbRef.addValueEventListener(new
ValueEventListener() {
            @Override
            public void onDataChange(@NonNull
DataSnapshot dataSnapshot) {
                String Sdate =
dataSnapshot.child("date").getValue().toString();
                String Stime =
dataSnapshot.child("time").getValue().toString();
                String Sguest =
dataSnapshot.child("guest").getValue().toString();
                String Sevent =
dataSnapshot.child("event").getValue().toString();
                String Slocation =
dataSnapshot.child("location").getValue().toString(
);
                //String pref_l =
dataSnapshot.child("lunch").getValue().toString();
                //String pref_d =
dataSnapshot.child("dinner").getValue().toString();

                date.setText(Sdate);
                time.setText(Stime);
                guest.setText(Sguest);
                event.setText(Sevent);
                location.setText(Slocation);
                //pref.setText(pref_b+"

```

```

, "+pref_l+" and "+pref_d);

        //
        //Intent intent = new
Intent(viewBookings.this,updateBooking.class);
        //startActivity(intent);
    }

    @Override
    public void onCancelled(@NonNull
DatabaseError databaseError) {

    }
});

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

                //deleteTbl();

                //dbRef =
FirebaseDatabase.getInstance().getReference().child("Table");
                dbRef.removeValue();

                //dbRef.child("tbl").removeValue();
                Toast.makeText(viewBookings.this,
                "Data Deleted Successfully",
                Toast.LENGTH_SHORT).show();

                Intent intent = new
                Intent(viewBookings.this,startBooking.class);
                startActivity(intent);

            }
        });

    }

    public void update(View v){
        Intent intent = new
        Intent(viewBookings.this,updateBookingT.class);
        startActivity(intent);

    }
}

```

OUTPUT:

