

```
package com.example.covid_19alertapp.activities;

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


import android.Manifest;
import android.annotation.SuppressLint;
import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.text.Editable;
import android.text.TextWatcher;
import android.util.Log;
import android.view.View;
import android.view.inputmethod.InputMethodManager;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;


import com.example.covid_19alertapp.R;
import com.example.covid_19alertapp.extras.Constants;
import com.example.covid_19alertapp.extras.LogTags;
```

```
import com.example.covid_19alertapp.extras.Permissions;

import com.google.firebase.FirebaseException;

import com.google.firebase.auth.PhoneAuthCredential;

import com.google.firebase.auth.PhoneAuthProvider;


import java.util.concurrent.TimeUnit;


public class SignUpActivity extends AppCompatActivity {


    Button btnContinue,btnHomeSignup,btnForwardSignup;

    EditText phoneNumber;

    TextView textViewTermsCond;

    public static String PHONE_NUMBER,verification;

    public static boolean ISRETURNEDFROMVERLAYOUT;

    public static SharedPreferences loginSp,userInfo;

    PhoneAuthProvider.OnVerificationStateChangedCallbacks mCallbacks;


    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_sign_up);


        // ask permissions

        promptPermissions();
```

```

phoneNumber = findViewById(R.id.editText_phoneNumber);

btnContinue = findViewById(R.id.btn_continue);

textViewTermsCond = findViewById(R.id.TextViewTerm);

btnHomeSignup = findViewById(R.id.home_button_signup_page);

btnForwardSignup = findViewById(R.id.forward_button_signup_page);


loginSp =
getSharedPreferences(Constants.USER_LOGIN_INFO_SHARED_PREFERENCES,MODE_PRIVATE);

userInfo = getSharedPreferences(Constants.USER_INFO_SHARED_PREFERENCES,MODE_PRIVATE);


if(loginSp.getBoolean(Constants.user_login_state_shared_preference,false)){

    startActivity(new Intent(getApplicationContext(), VerificationPageActivity.class));

    finish();

}


mCallbacks=new PhoneAuthProvider.OnVerificationStateChangedCallbacks() {

    @Override

    public void onVerificationCompleted(@NonNull PhoneAuthCredential phoneAuthCredential) {

        Toast.makeText(getApplicationContext(),"Successful",Toast.LENGTH_SHORT).show();

    }


    @Override

    public void onVerificationFailed(@NonNull FirebaseException e) {

```

```

        Toast.makeText(getApplicationContext(),"Check Your Internet
Connection",Toast.LENGTH_SHORT).show();

        btnContinue.setEnabled(true);

    }

    @Override

    public void onCodeSent(@NonNull String s, @NonNull PhoneAuthProvider.ForceResendingToken
forceResendingToken) {

        super.onCodeSent(s, forceResendingToken);

        verification=s;

        Toast.makeText(getApplicationContext(),"Code Sent to the
Number",Toast.LENGTH_SHORT).show();

        startActivity(new Intent(getApplicationContext(), VerificationPageActivity.class));

        loginSp.edit().putBoolean(Constants.user_login_state_shared_preference,true).apply();

        btnContinue.setEnabled(true);

        finish();

    }

};

if(ISRETURNEDFROMVERLAYOUT)

{

    PHONE_NUMBER=PHONE_NUMBER.substring(0,4)+" "+PHONE_NUMBER.substring(4);

    phoneNumber.setText(PHONE_NUMBER);

```

```

ISRETURNEDFROMVERLAYOUT = false;

btnHomeSignup.setVisibility(View.INVISIBLE);

btnForwardSignup.setVisibility(View.VISIBLE);


btnForwardSignup.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        startActivity(new Intent(getApplicationContext(), VerificationPageActivity.class));

        loginSp.edit().putBoolean(Constants.user_login_state_shared_preference,true).apply();

        finish();

    }

});

}

phoneNumber.clearFocus();

phoneNumber.setSelection(phoneNumber.getText().toString().length());

phoneNumber.addTextChangedListener(new TextWatcher() {

    @Override

    public void beforeTextChanged(CharSequence s, int start, int count, int after) {

    }

    //I

    int countB=phoneNumber.getText().toString().length(),countA=0;

    @SuppressWarnings("SetTextI18n")

    @Override

```

```

public void onTextChanged(CharSequence s, int start, int before, int count) {

    if(phoneNumber.getText().toString().length()<5)
    {
        phoneNumber.setText("+880 ");
        phoneNumber.setSelection(phoneNumber.getText().toString().length());
    }

    countA = phoneNumber.getText().toString().length();

    if(phoneNumber.getText().toString().length()==9 && countA>countB)
    {
        phoneNumber.setText(phoneNumber.getText().toString()+"-");
        phoneNumber.setSelection(phoneNumber.getText().toString().length());
    }

    countB = countA;

    if(phoneNumber.getText().toString().length()==16)
    {
        hideSoftInput();
    }
}

@Override

public void afterTextChanged(Editable s) { }

});

```

```
phoneNumber.setOnFocusChangeListener(new View.OnFocusChangeListener() {  
  
    @Override  
  
    public void onFocusChange(View v, boolean hasFocus) {  
  
        if(hasFocus) phoneNumber.setCursorVisible(true);  
  
        else phoneNumber.setCursorVisible(false);  
  
    }  
  
});
```

```
btnContinue.setOnClickListener(new View.OnClickListener() {  
  
    @Override  
  
    public void onClick(View v) {  
  
        if(phoneNumber.getText().toString().length()==16) //Write a function to check phone number  
validity  
        {  
  
            PHONE_NUMBER = phoneNumber.getText().toString();  
  
            PHONE_NUMBER=PHONE_NUMBER.replaceAll("\\s+", "");  
  
            System.out.println(PHONE_NUMBER);  
  
            userInfo.edit().putString(Constants.user_phone_no_preference,PHONE_NUMBER).apply();  
  
            sendSms(PHONE_NUMBER);  
  
            btnContinue.setEnabled(false);  
  
        }  
  
        else  
  
        {  
  
            phoneNumber.setError("Invalid Number!");  
  
        }  
  
    }  
  
});
```

```
}  
});
```

```
textViewTermsCond.setOnClickListener(new View.OnClickListener() {  
  
    @Override  
  
    public void onClick(View v) {  
  
        //Write Terms and Condition Page Function  
  
        textViewTermsCond.setTextColor(getResources().getColor(R.color.colorInactive));  
  
    }  
});
```

```
btnHomeSignup.setOnClickListener(new View.OnClickListener() {  
  
    @Override  
  
    public void onClick(View v) {  
  
        finish();  
  
    }  
});
```

```
}
```

```
public void hideSoftInput() {  
  
    View view1 = this.getCurrentFocus();  
  
    if(view1!= null){
```



```

        InputMethodManager imm = (InputMethodManager)
getSystemService(Context.INPUT_METHOD_SERVICE);

        imm.hideSoftInputFromWindow(view1.getWindowToken(), 0);

    }

}

```

```

public void sendSms(String phoneNo){

```

```

    PhoneAuthProvider.getInstance().verifyPhoneNumber(

        phoneNo,    // Phone number to verify

        60,         // Timeout duration

        TimeUnit.SECONDS, // Unit of timeout

        this,       // Activity (for callback binding)

        mCallbacks  // OnVerificationStateChangedCallbacks

    );

}

```

```

/*

permission needed at start of app

*/

```

```

private Permissions permissions;

private static final String[] permissionStrings = {

    Manifest.permission.ACCESS_FINE_LOCATION,

    Manifest.permission.ACCESS_BACKGROUND_LOCATION,

```

```
Manifest.permission.ACCESS_WIFI_STATE,  
Manifest.permission.CALL_PHONE  
};
```

```
private void promptPermissions() {
```

```
permissions = new Permissions(this, permissionStrings, Constants.PERMISSION_CODE);
```

```
if(!permissions.checkPermissions())
```

```
permissions.askPermissions();
```

```
}
```

```
@Override
```

```
public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions, @NonNull  
int[] grantResults) {
```

```
//resolve unresolved permissions
```

```
switch (requestCode){
```

```
case Constants.PERMISSION_CODE:
```

```
try {
```

```
    this.permissions.resolvePermissions(permissions, grantResults);
```

```
}catch (Exception e){
```

```
    Log.d(LogTags.Permissions_TAG, "onRequestPermissionsResult: "+e.getMessage());
```

```
}
```

```
break;
```

```
}
```

```
}
```

```
}
```