

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

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.content.Intent;

import android.content.SharedPreferences;

import android.os.Bundle;

import android.os.Handler;

import android.text.Editable;

import android.text.TextWatcher;

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 androidx.appcompat.widget.Toolbar;


import com.example.covid_19alertapp.R;

import com.example.covid_19alertapp.extras.Constants;

import com.example.covid_19alertapp.models.UserInfoData;

import com.google.android.gms.tasks.OnCompleteListener;

import com.google.android.gms.tasks.Task;

import com.google.firebase.auth.AuthResult;

import com.google.firebase.auth.FirebaseAuth;
```

```
import com.google.firebase.auth.FirebaseUser;

import com.google.firebase.auth.PhoneAuthCredential;

import com.google.firebase.auth.PhoneAuthProvider;

import com.google.firebase.auth.UserInfo;

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 static com.example.covid_19alertapp.activities.SignUpActivity.verification;
```

```
public class VerificationPageActivity extends AppCompatActivity {
```

```
    Toolbar toolbar;

    Button homeButton,confirmButton,editNumberButton;

    TextView textViewResendOTP;

    EditText digit1,digit2,digit3,digit4,digit5,digit6;

    String verificationCode,uid;

    FirebaseAuth auth;

    SharedPreferences sp,userInfoCheck,signUpSp;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_verification_page);
```

```
homeButton = findViewById(R.id.home_button_verification_page);
```

```
toolbar = findViewById(R.id.verification_page_toolbar);
```

```
digit1=findViewById(R.id.editTextDigit1);
```

```
digit2=findViewById(R.id.editTextDigit2);
```

```
digit3=findViewById(R.id.editTextDigit3);
```

```
digit4=findViewById(R.id.editTextDigit4);
```

```
digit5=findViewById(R.id.editTextDigit5);
```

```
digit6=findViewById(R.id.editTextDigit6);
```

```
auth=FirebaseAuth.getInstance();
```

```
setSupportActionBar(toolbar);
```

```
sp = getSharedPreferences("verify",MODE_PRIVATE);
```

```
userInfoCheck=getSharedPreferences("info",MODE_PRIVATE);
```

```
signUpSp =  
getSharedPreferences(Constants.USER_LOGIN_INFO_SHARED_PREFERENCES,MODE_PRIVATE);
```

```
if(sp.getBoolean("logged",false)){
```

```
    if(userInfoCheck.getBoolean(Constants.user_exists_preference,false)) {
```

```
        GoToMainActivity();
```

```
        finish();
```

```

    }

    else

        checkIfUserInfoExist();

}

homeButton.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        SignUpActivity.ISRETURNEDFROMVERLAYOUT = true;

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

        finish();

    }

});

```

```

((EditText)findViewById(R.id.editTextDigit1)).setCursorVisible(false);

findViewById(R.id.editTextDigit1).setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        ((EditText) findViewById(R.id.editTextDigit1)).setCursorVisible(true); });

((EditText)findViewById(R.id.editTextDigit1)).addTextChangedListener(new TextWatcher() {

    @Override

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

```

```

@Override

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

    if(((EditText)findViewById(R.id.editTextDigit1)).getText().toString().length()==1)

    {

        findViewById(R.id.editTextDigit2).clearFocus();

        findViewById(R.id.editTextDigit2).requestFocus();

        ((EditText) findViewById(R.id.editTextDigit2)).setCursorVisible(true);

    }

}

@Override

public void afterTextChanged(Editable s) {}

});

((EditText)findViewById(R.id.editTextDigit2)).addTextChangedListener(new TextWatcher() {

@Override

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

@Override

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

    if(((EditText)findViewById(R.id.editTextDigit2)).getText().toString().length()==1)

    {

        findViewById(R.id.editTextDigit3).clearFocus();

        findViewById(R.id.editTextDigit3).requestFocus();

        ((EditText) findViewById(R.id.editTextDigit3)).setCursorVisible(true);

    }

}

}

@Override

```

```

        public void afterTextChanged(Editable s) { }

});

((EditText)findViewById(R.id.editTextDigit3)).addTextChangedListener(new TextWatcher() {

    @Override

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

    @Override

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

        if(((EditText)findViewById(R.id.editTextDigit3)).getText().toString().length()==1)

        {

            findViewById(R.id.editTextDigit4).clearFocus();

            findViewById(R.id.editTextDigit4).requestFocus();

            ((EditText) findViewById(R.id.editTextDigit4)).setCursorVisible(true);

        }

    }

    @Override

    public void afterTextChanged(Editable s) { }

});

((EditText)findViewById(R.id.editTextDigit4)).addTextChangedListener(new TextWatcher() {

    @Override

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

    @Override

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

        if(((EditText)findViewById(R.id.editTextDigit4)).getText().toString().length()==1)

        {

            findViewById(R.id.editTextDigit5).clearFocus();

```

```

        findViewById(R.id.editTextDigit5).requestFocus();

        ((EditText) findViewById(R.id.editTextDigit5)).setCursorVisible(true);
    }
}

@Override

public void afterTextChanged(Editable s) {}

});

((EditText)findViewById(R.id.editTextDigit5)).addTextChangedListener(new TextWatcher() {

    @Override

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

    @Override

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

        if(((EditText)findViewById(R.id.editTextDigit5)).getText().toString().length()==1)

        {

            findViewById(R.id.editTextDigit6).clearFocus();

            findViewById(R.id.editTextDigit6).requestFocus();

            ((EditText) findViewById(R.id.editTextDigit6)).setCursorVisible(true);

        }

    }

    @Override

    public void afterTextChanged(Editable s) {}

});

((EditText)findViewById(R.id.editTextDigit6)).addTextChangedListener(new TextWatcher() {

    @Override

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

```

```

@Override

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

    if(((EditText)findViewById(R.id.editTextDigit6)).getText().toString().length()==1)

    {

        ((EditText) findViewById(R.id.editTextDigit6)).setCursorVisible(false);

        findViewById(R.id.btn_continue).clearFocus();

        findViewById(R.id.btn_continue).requestFocus();

        hideSoftInput();

    }

}

@Override

public void afterTextChanged(Editable s) { }

});

textViewResendOTP = findViewById(R.id.TextViewResendOTP);

textViewResendOTP.setOnClickListener(new View.OnClickListener() {

    @Override

    public void onClick(View v) {

        Toast.makeText(getApplicationContext(),"RESENDING OTP",Toast.LENGTH_SHORT).show();

        textViewResendOTP.setEnabled(false);

        textViewResendOTP.setTextColor(getResources().getColor(R.color.colorInactive));

        ToggleResendTextView(textViewResendOTP);

```



```
//Write ResendOTP Function Here
```

```
}
```

```
});
```

```
ToggleResendTextView(textViewResendOTP);
```

```
confirmButton = findViewById(R.id.btn_continue);
```

```
editNumberButton = findViewById(R.id.btn_change_number);
```

```
confirmButton.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```
    public void onClick(View v) {
```

```
        //Write OTP Submission Function Here
```

```
verificationCode=digit1.getText().toString().trim()+""+digit2.getText().toString().trim()+""+digit3.getText()  
( ).toString().trim()+""+digit4.getText().toString().trim()+""+digit5.getText().toString().trim()+""+digit6.getT  
ext().toString().trim();
```

```
        System.out.println(verificationCode+" sdf"+ digit1.getText().toString());
```

```
        verify(verificationCode);
```

```
    }
```

```
});
```

```
editNumberButton.setOnClickListener(new View.OnClickListener() {
```

```
    @Override
```

```

public void onClick(View v) {

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

    SignUpActivity.ISRETURNEDFROMVERLAYOUT = true;

    signUpSp.edit().putBoolean(Constants.user_login_state_shared_preference,false).apply();

    finish();

}

});

}

//Methods

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 ToggleResendTextView(final TextView textView)

{

    final Handler handler = new Handler();

    handler.postDelayed(new Runnable() {

        @Override

        public void run() {

```

```

        textView.setEnabled(true);

        textView.setTextColor(getResources().getColor(R.color.colorActive));
    }
}, 20000);
}

```

```

public void verify(String verificationCode){

    System.out.println(verification+" verify");

    verifyPhoneNumber(verification,verificationCode);
}

```

```

private void verifyPhoneNumber(String verification, String enterededCodeString) {

    System.out.println(verification+" credential "+enterededCodeString);

    PhoneAuthCredential phoneAuthCredential=
PhoneAuthProvider.getCredential(verification,enterededCodeString);

    signInWithPhoneAuthCredential(phoneAuthCredential);
}

```

```

private void signInWithPhoneAuthCredential(PhoneAuthCredential credential) {

    auth.signInWithCredential(credential)

        .addOnCompleteListener(this, new OnCompleteListener<AuthResult>() {

            @Override

            public void onComplete(@NonNull Task<AuthResult> task) {

                if (task.isSuccessful()) {

                    // Sign in success, update UI with the signed-in user's information

```

```

        //Log.d(TAG, "signInWithCredential:success");

        //System.out.println("Successful");

        FirebaseUser user = task.getResult().getUser();

        uid= FirebaseAuth.getInstance().getCurrentUser().getUid();

        if(userInfoCheck.getBoolean(Constants.user_exists_preference,false)) {

            GoToMainActivity();

            finish();

        }

        else

            checkIfUserInfoExist();


        sp.edit().putBoolean("logged",true).apply();

        Toast.makeText(getApplicationContext(),"User Signed In
        Successfully",Toast.LENGTH_SHORT).show();

    } else {

        //System.out.println(task.getException()+" task exception");

        Toast.makeText(getApplicationContext(),"Please use the valid
        code",Toast.LENGTH_SHORT).show();

        // Sign in failed, display a message and update the UI


    }

}

});

}

```

```

public void checkIfUserInfoExist(){

    FirebaseDatabase database = FirebaseDatabase.getInstance();

    uid=FirebaseAuth.getInstance().getUid();

    DatabaseReference ref = database.getReference().child("UserInfo").child(uid);

    ValueEventListener valueEventListener = new ValueEventListener() {

        @Override

        public void onDataChange(DataSnapshot dataSnapshot) {

            if(dataSnapshot.exists()){

                UserInfoData user = dataSnapshot.getValue(UserInfoData.class);

                userInfoCheck.edit().putString(Constants.username_preference, user.getName()).apply();

                userInfoCheck.edit().putString(Constants.user_dob_preference, user.getDob()).apply();

                userInfoCheck.edit().putString(Constants.user_home_address_preference,
user.getHomeAddress()).apply();

                userInfoCheck.edit().putString(Constants.user_home_address_latlng_preference,
user.getHomeLatLng()).apply();

```

```
        userInfoCheck.edit().putString(Constants.uid_preference,uid).apply();

        userInfoCheck.edit().putString(Constants.user_phone_no_preference,
user.getContactNumber()).apply();

        userInfoCheck.edit().putBoolean(Constants.user_exists_preference,true).apply();

if(String.valueOf(dataSnapshot.child(Constants.userInfo_node_workAddress).getValue())!=null) {

        userInfoCheck.edit().putString(Constants.user_work_address_preference,
user.getWorkAddress()).apply();

        userInfoCheck.edit().putString(Constants.user_work_address_latlng_preference,
user.getWorkLatLng()).apply();

    }

        GoToMainActivity();

    }

    else {

        GotoUserInfoFormActivity();

    }

        finish();

    }
```

```
@Override

    public void onCancelled(@NonNull DatabaseError databaseError) {

        }

};

ref.addListenerForSingleValueEvent(valueEventListener);


}

public void GoToMainActivity(){

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

}

public void GotoUserInfoFormActivity(){

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

}

}
```