

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

import androidx.annotation.Nullable;

import androidx.appcompat.app.AppCompatActivity;


import android.content.Context;

import android.content.Intent;

import android.content.SharedPreferences;

import android.graphics.drawable.Drawable;

import android.os.Bundle;

import android.os.Handler;

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.AddressReceiver;

import com.example.covid_19alertapp.models.UserInfoData;

import com.example.covid_19alertapp.extras.Constants;

import com.example.covid_19alertapp.extras.LogTags;

import com.google.firebase.auth.FirebaseAuth;

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

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

```
public class UserInfoFormActivity extends AppCompatActivity implements  
AddressReceiver.AddressView {
```

```
    EditText dobText,userName;
```

```
    TextView workAddress,homeAddress;
```

```
    Button save_profile;
```

```
    UserInfoData userInfoData;
```

```
    FirebaseDatabase database;
```

```
    DatabaseReference userInfoRef;
```

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

```
    String path="UserInfo";
```

```
    public static SharedPreferences userInfo;
```

```
    private String homeLatLng = "", workLatLng = "", homeAddressVariable = "", workAddressVariable =  
    "";
```

```
    // address picker keys
```

```
    private static final int HOME_ADDRESS_PICKER = 829;
```

```
    private static final int WORK_ADDRESS_PICKER = 784;
```

```
    // address picker icon
```

```
    Drawable checkedIcon;
```

```

// latLng to address fetcher

AddressReceiver addressReceiver = new AddressReceiver(new Handler(), this);

@Override

protected void onCreate(Bundle savedInstanceState) {

    super.onCreate(savedInstanceState);

    setContentView(R.layout.activity_user_info_form);

    dobText= findViewById(R.id.dateOfBirth);

    userName = findViewById(R.id.userName);

    workAddress = findViewById(R.id.workAddress);

    homeAddress = findViewById(R.id.homeAddress);

    save_profile = findViewById(R.id.SaveProfButton);

    userInfo = getSharedPreferences(Constants.USER_INFO_SHARED_PREFERENCES,MODE_PRIVATE);

    checkedIcon =
getApplicationContext().getResources().getDrawable(R.drawable.ic_check_black_24dp);

    homeAddress.setOnClickListener(new View.OnClickListener() {

        @Override

        public void onClick(View v) {

            // home address click

            Intent homeIntent = new Intent(UserInfoFormActivity.this, AddressPickerMapsActivity.class);

            startActivityForResult(homeIntent, HOME_ADDRESS_PICKER);

```

```
}  
});
```

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

```
    @Override
```

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

```
        // work address click
```

```
        Intent workIntent = new Intent(UserInfoFormActivity.this, AddressPickerMapsActivity.class);
```

```
        startActivityForResult(workIntent, WORK_ADDRESS_PICKER);
```

```
    }
```

```
});
```

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

```
    @Override
```

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

```
        if(homeLatLng.equals("") || homeAddressVariable.equals("") || RequiredEditText(userName)  
|| RequiredEditText(dobText))
```

```
        {
```

```
            if(homeLatLng.equals(""))
```

```
                homeAddress.setError("Required");
```

```
            else if(homeAddressVariable.equals("")) {
```

```
                Toast.makeText(UserInfoFormActivity.this,
```

```
                    "please wait as we fetch your address",
```

```

        Toast.LENGTH_LONG)

        .show();

    }

    return;
}

final String name,day,month,year,dateOfBirth,contactNumber;

name=userName.getText().toString();

dateOfBirth=dobText.getText().toString();

contactNumber=userInfo.getString(Constants.user_phone_no_preference,"Not Defined");

if(workLatLng.equals("")){

    userInfoData=new UserInfoData(name,dateOfBirth,homeLatLng,contactNumber,
homeAddressVariable);

}

else {

    userInfoData = new UserInfoData(name, dateOfBirth, workLatLng, homeLatLng,
contactNumber, homeAddressVariable, workAddressVariable);

userInfo.edit().putString(Constants.user_work_address_latlng_preference,workLatLng).apply();

userInfo.edit().putString(Constants.user_work_address_preference,workAddressVariable).apply();

}

//applying values to the info names Shared Preference

```

```
        userInfo.edit().putString(Constants.username_preference,name).apply();

        userInfo.edit().putString(Constants.user_dob_preference,dateOfBirth).apply();


        userInfo.edit().putString(Constants.user_home_address_latLng_preference,homeLatLng).apply();

        userInfo.edit().putString(Constants.uid_preference,uid).apply();

        //userInfo.edit().putString(Constants.user_phone_no_preference,PHONE_NUMBER).apply();

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


        // set the home address fetched using intent service

        userInfo.edit().putString(Constants.user_home_address_preference,
homeAddressVariable).apply();


        database = FirebaseDatabase.getInstance();

        userInfoRef = database.getReference(path).child(uid);

        userInfoRef.setValue(userInfoData);


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

        finish();

    }

    });

}
```

```
//Home Address field's onClick function
```

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

```
}
```

```
//Work ADDRESS field's onclick function
```

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

```
}
```

```
@Override
```

```
protected void onActivityResult(int requestCode, int resultCode, @Nullable Intent data) {
```

```
    super.onActivityResult(requestCode, resultCode, data);
```

```
    /*
```

```
    receive latLong picked from map
```

```
    */
```

```
    switch (requestCode){
```

```
        case (HOME_ADDRESS_PICKER):
```

```
            if(resultCode == RESULT_OK){
```

```

        // set the home LatLng
        homeLatLng = data.getStringExtra("latitude-longitude");

        Log.d(LogTags.Map_TAG, "onActivityResult: home latLng fetched = "+homeLatLng);

        // start address fetch intent service

        String[] latLng = homeLatLng.split(",");

        addressReceiver.startAddressFetchService(

            this,

            Double.valueOf(latLng[0]),

            Double.valueOf(latLng[1]),

            0

        );

        //onSuccess

        homeAddress.setText(getText(R.string.address_fetching_text));

        homeAddress.setCompoundDrawables(null,null,checkedIcon,null);

    }

    break;

case (WORK_ADDRESS_PICKER):

    if(resultCode == RESULT_OK){

        // set the work address

```



```

workLatLng = data.getStringExtra("latitude-longitude");

Log.d(LogTags.Map_TAG, "onActivityResult: work latLng fetched = "+workLatLng);


// start address fetch intent service

String[] latLng = workLatLng.split(",");

addressReceiver.startAddressFetchService(

    this,

    Double.valueOf(latLng[0]),

    Double.valueOf(latLng[1]),

    1

);


//onSuccess

workAddress.setCompoundDrawables(null,null,checkedIcon,null);

workAddress.setText(getText(R.string.address_fetching_text));

}


break;

}

}

private boolean RequiredEditText(EditText e)

```

```
{  
    if(e.getText().toString().length()==0)  
    {  
        e.setError("Required");  
        return true;  
    }  
  
    return false;  
}
```

@Override

```
public void updateAddress(String address, int type) {  
    /*  
    address received callback  
    */  
  
    if(type == 0) {  
        // home address  
  
        homeAddressVariable = address;  
        homeAddress.setText(homeAddressVariable);  
    }  
  
    else if(type==1){
```

```
// work address
```

```
workAddressVariable = address;
```

```
workAddress.setText(workAddressVariable);
```

```
}
```

```
}
```

```
}
```