

```
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import androidx.core.app.ActivityCompat;
import androidx.annotation.RequiresApi;
import android.content.Context;
import android.content.Intent;
import android.location.Location;
import android.location.LocationManager;
import android.location.LocationListener;
import android.provider.Settings;
import android.app.AlertDialog.Builder;
import android.database.Cursor;
import android.sqlite.SQLiteDatabase;
import android.widget.Button;
import android.widget.TextView;
import android.view.View;
import android.view.View.OnClickListener;
```

```
public void MainActivity extends AppCompatActivity
```

```
{
    EditText id;
    button insert, delete, view;
    SQLiteDatabase db;
```

@Override

```
protected void onCreate (Bundle savedInstanceState)
```

```
{
    super.onCreate (savedInstanceState);
    setContentView (R.layout.activity_main);
```

```
id = (EditText) findViewById(R.id.id);
location = (EditText) findViewById(R.id.location);
insert =
```

```
delete = (Button) findViewById(R.id.delete);
```

```
view = (Button) findViewById(R.id.view);
```

```
db = openOrCreateDatabase ("facultydata",
    context.MODE_PRIVATE, null);
```

```
insert.setOnClickListener(this);
```

```
delete.setOnClickListener(this);
view.setOnClickListener(this);
```

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```
db.execSQL("create table if not exists  
faculty (id VARCHAR, address VARCHAR);  
}
```

@Override

public void onClick (View view)

```
{  
    if (View == insert)  
    {  
        LocationManager  
        LocationManager locationManager;  
        locationManager = (LocationManager)  
            getSystemService(Context.  
                LOCATION_SERVICE);  
        locationManager.requestLocationUpdates  
            (LocationManager.GPS_PROVIDER, 2000,  
                1, this);  
  
        if (id.getText().toString().trim().length()  
            == 0)  
        {  
            showMessage("Error", "please enter value")  
            return;  
        }  
  
        db.execSQL("Insert into faculty values(  
            " + id.getText() + ", " + location.getText() + ");  
        showMessage("Success", "Record added");  
    }  
  
    if (View == delete)  
    {  
        if (id.getText().toString().trim().length == 0)  
        {  
            showMessage("Error", "Enter id");  
            return;  
        }  
    }  
}
```

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```
Cursor c = db.rawQuery("select * from  
faculty where id = '" + id.getText().trim() + "'  
null);
```

```
if (c.moveToFirst())
```

```
{  
    db.execSQL("delete from faculty  
    where id = '" + id.getText().trim() + "'");
```

```
    showMessage("success", "deleted");
```

```
}
```

```
}
```

```
if (View == view)
```

```
{  
    if (id.getText().toString().trim().length()  
        == 0)
```

```
{  
    showMessage("Error", "add value");
```

```
    return;
```

```
}
```

```
cursor = db.rawQuery("select * from  
faculty where id = '" + id.getText().trim() + "'");
```

```
if (cursor.moveToFirst())
```

```
{  
    id.setText(id.getText().trim());
```

```
location.setText(c.getString(1));
```

```
}
```

```
}
```

```
public void showMessage (String title, String message) {
```

```
{
```

```
    Builder builder = new Builder (this);
```

```
    builder.setCancelable (true);
```

```
    builder.setTitle (title);
```

```
    builder.setMessage (message);
```

```
    builder.show ();
```

```
}
```


@Override

```
public void onLocationChanged (Location location)
{
    String msg = "la" + location.getLatitude() + "lo" +
        location.getLongitude();

    location.setText(msg);
}
```

@Override

```
public void onProviderDisabled (String Provider)
{
    Intent intent = new Intent (Settings,
        ACTION_LOCATION_SOURCE_SETTINGS);
    startActivity (intent);
}
```

@Override

```
public void onProviderEnabled (String Provider)
{
}
```

```
}
```

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