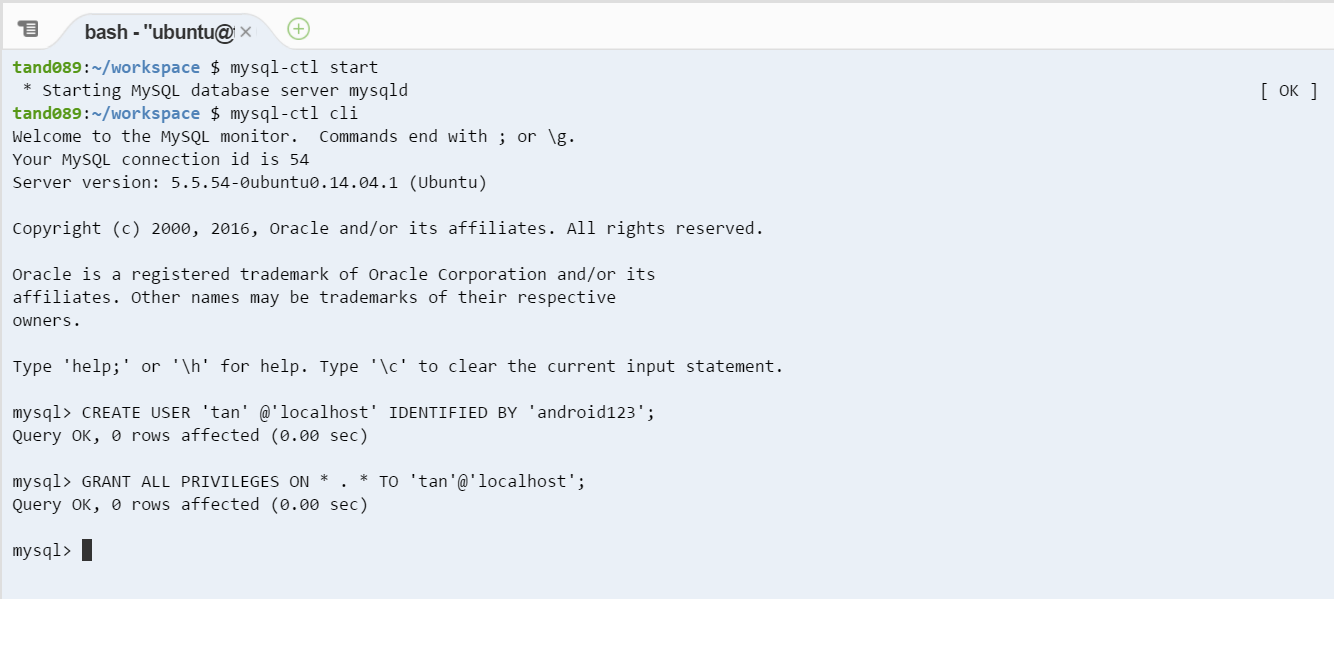
CSE575-Section3: feedback activity

1. Backend server requirements:
   1. MySQL: to store user information and messages.
   2. PHP: to parse data into MySQL database.
2. Create database and table in My SQL (We will use c9.io backend server that we have created before, check the section 2 for references.)
   1. Create username and password for MySQL

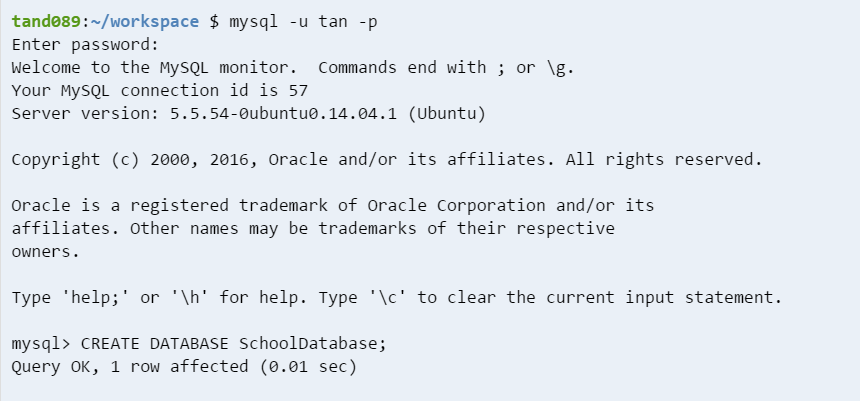
* Open the terminal on c9.io
* Start MySQL: mysql-ctl start
* Go to MySQL: mysql-ctl cli
* Create new user with password: CREATE USER 'tan' @'localhost' IDENTIFIED BY 'android123';

Note: user is tan and password is android123

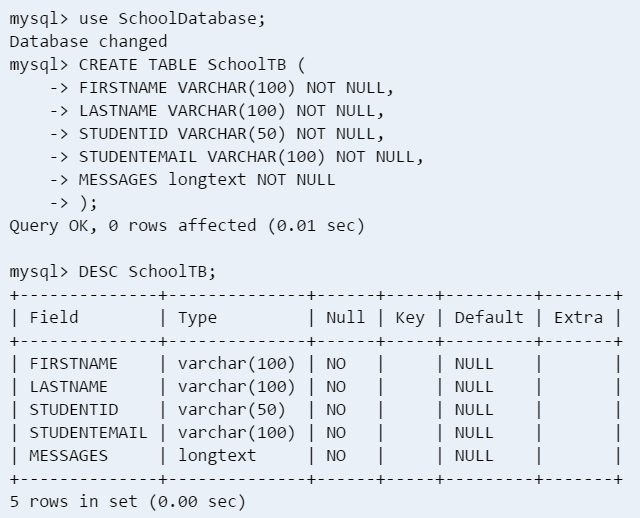
* Grant the privilege to the new user: GRANT ALL PRIVILEGES ON \*.\* TO 'username'@’localhost’;



* Type exit and log in the username and password we just created.
* Log in: mysql -u tan -p > press enter > enter the password which is “android123”
* Create new database called SchoolDatabase: CREATE DATABASE SchoolDatabase;



* Using the SchoolDatabase: use SchoolDatabase;
* Create table as show in the image below



1. Create SchoolFeedback.php to insert data into SchoolTB table
   1. Create new file > SchoolFeedback.php
   2. SchoolFeedback.php

<?php

$servername = "localhost";

$username = "tan";

$password = "android123";

$dbname = "SchoolDatabase";

try {

//Creating connection for mysql

$conn = new PDO("mysql:host=$servername; dbname=$dbname", $username, $password);

// set the PDO error mode to exception

$conn->setAttribute(PDO::ATTR\_ERRMODE, PDO::ERRMODE\_EXCEPTION);

//use POST method to insert data into table

$stmt = $conn->prepare("INSERT INTO SchoolTB VALUES (:firstname, :lastname, :studentID, :email, :messages)");

$stmt->bindParam(':firstname', $\_POST['FIRSTNAME']);

$stmt->bindParam(':lastname', $\_POST['LASTNAME']);

$stmt->bindParam(':studentID', $\_POST['STUDENTID']);

$stmt->bindParam(':email', $\_POST['STUDENTEMAIL']);

$stmt->bindParam(':messages', $\_POST['MESSAGES']);

$stmt->execute();

echo "Submitted Successfully";

}

catch(PDOException $e) {

echo "Error: " . $e->getMessage();

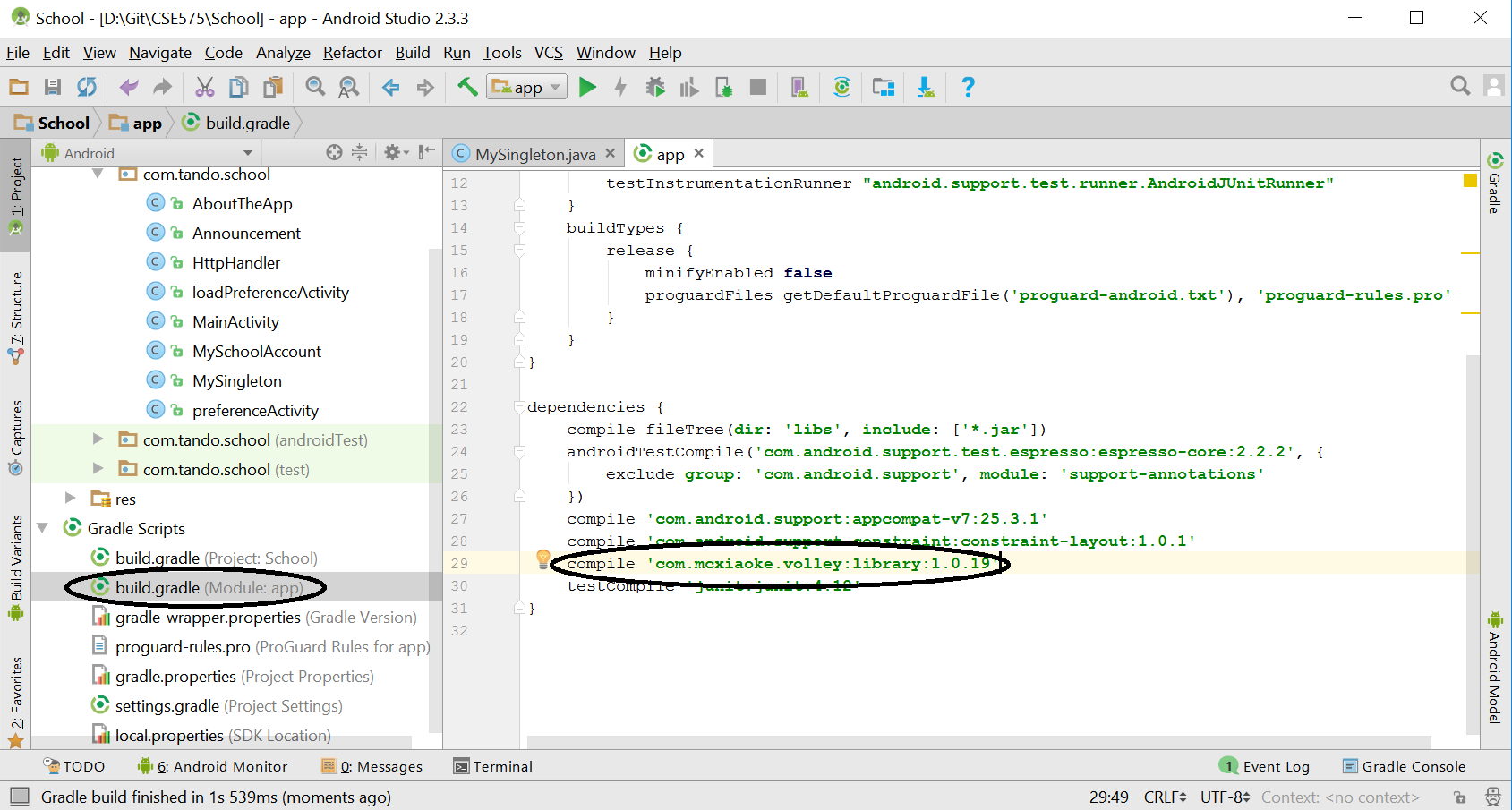
}

$conn = null;

?>

1. Now we finish with the backend server, next we will do frontend for the app. We will use “volley” library tom implement this activity.
   1. Add the following dependency to your app's build.gradle: as show in the images

\*\*Gradle Scripts > build.gradle > paste “compile 'com.mcxiaoke.volley:library:1.0.19'” > click sync now.



* 1. Create a MySingleton.java to be a class for Feedback activity

MySingleton.java: details in comments

**private static** MySingleton *mInstance*;  
**private** RequestQueue **requestQueue**;  
**private static** Context *mCtx*;  
  
**private** MySingleton (Context context)  
{  
 *// Specify the application context  
 mCtx* =context;  
 *// Get the request queue* **requestQueue** = getRequestQueue();  
}  
*//synchronized method***public static synchronized** MySingleton getInstance(Context context) {  
 *// If Instance is null then initialize new Instance* **if** (*mInstance*==**null**){  
 *mInstance* = **new** MySingleton(context);  
 }  
 *// Return MySingleton new Instance* **return** *mInstance*;  
}  
*//method for request queue***public** RequestQueue getRequestQueue() {  
 *//check to see the requestQueue is initialized or not* **if**(**requestQueue**==**null**){  
 **requestQueue** = Volley.*newRequestQueue*(*mCtx*.getApplicationContext());  
 }  
 *//return request queue* **return requestQueue**;  
}  
  
**public** <T>**void** addTorequestqueue(Request<T> request){  
 *// Add the specified request to the request queue* **requestQueue**.add(request);  
}

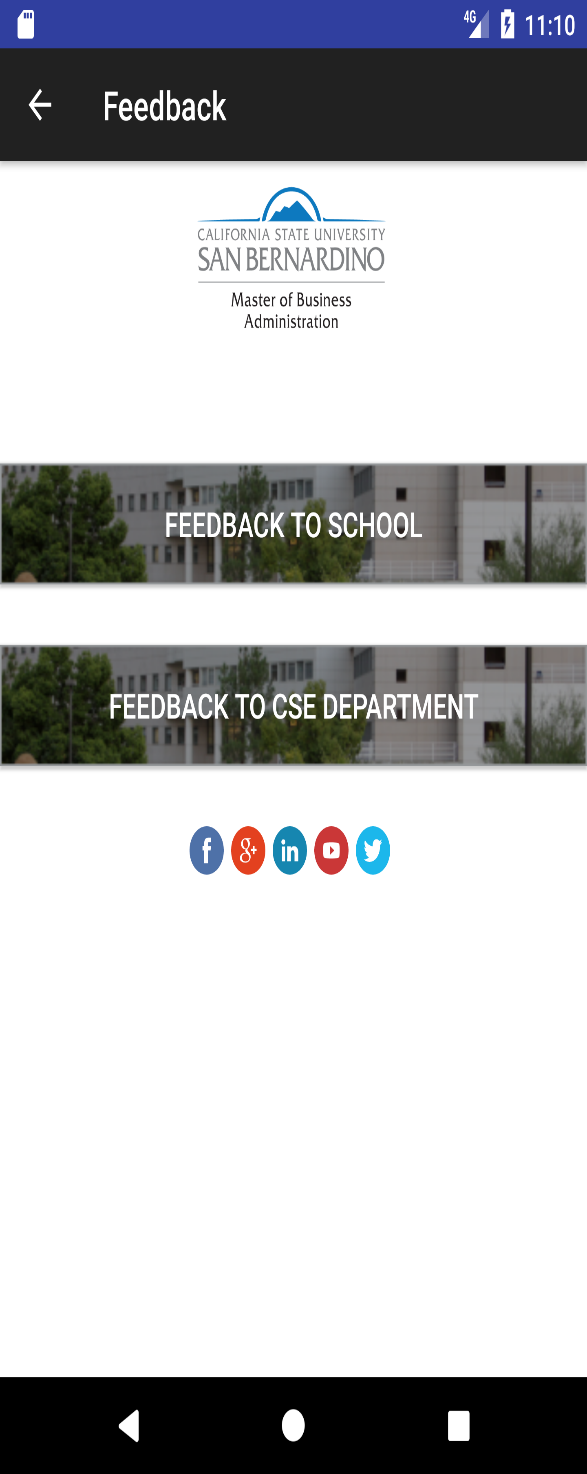
* 1. Create new activity called Feedback, and 2 sub-activities named SchoolFeedback and DepFeedback
     + Style the UI for Feedback

activity\_feedback.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.tando.school.Feedback"  
 android:orientation="vertical"  
 android:background="#FFF"  
 android:paddingBottom="0dp"  
 android:paddingLeft="0dp"  
 android:paddingRight="0dp"  
 android:paddingTop="0dp"**>  
 <**ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
 <**LinearLayout  
 android:orientation="vertical"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginBottom="10dp"**>  
  
 *<!--Logo -->* <**ImageView  
 android:id="@+id/logo"  
 android:layout\_width="150dp"  
 android:layout\_height="100dp"  
 android:background="@drawable/school\_logo"  
 android:layout\_gravity="center"**/>  
 <**Button  
 android:text="Feedback to school"  
 android:textSize="17dp"  
 android:textColor="#FFFFFF"  
 android:layout\_width="match\_parent"  
 android:id="@+id/feedback01"  
 android:layout\_marginTop="50dp"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/sections"  
 android:onClick="feedbackSchool"**/>  
  
 <**Button  
 android:text="Feedback to CSE department"  
 android:textSize="17dp"  
 android:textColor="#FFFFFF"  
 android:layout\_width="match\_parent"  
 android:id="@+id/feedback02"  
 android:layout\_marginTop="30dp"  
 android:layout\_height="wrap\_content"  
 android:background="@drawable/sections"  
 android:onClick="feedbackDep"**/>  
 *<!--Social Media -->* <**LinearLayout  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="30dp"  
 android:orientation="horizontal"  
 android:layout\_gravity="center"**>  
  
 <**ImageView  
 android:id="@+id/faceBook"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_facebook"  
 android:paddingRight="5dp"  
 android:onClick="fbClick"**/>  
  
 <**ImageView  
 android:id="@+id/googlePlus"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_google"  
 android:paddingRight="5dp"  
 android:onClick="googleClick"**/>  
  
 <**ImageView  
 android:id="@+id/linkedIn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_linkedin"  
 android:paddingRight="5dp"  
 android:onClick="linkedInClick"**/>  
  
 <**ImageView  
 android:id="@+id/youTube"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_youtube"  
 android:paddingRight="5dp"  
 android:onClick="youTubeClick"**/>  
  
 <**ImageView  
 android:id="@+id/twitterT"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:src="@drawable/ic\_twitter"  
 android:paddingRight="5dp"  
 android:onClick="twitterClick"**/>  
 </**LinearLayout**>  
 </**LinearLayout**>  
 </**ScrollView**>  
  
</**LinearLayout**>

\*Note: go to manifest.xml to change theme, label, and parentActivityName for this activity.

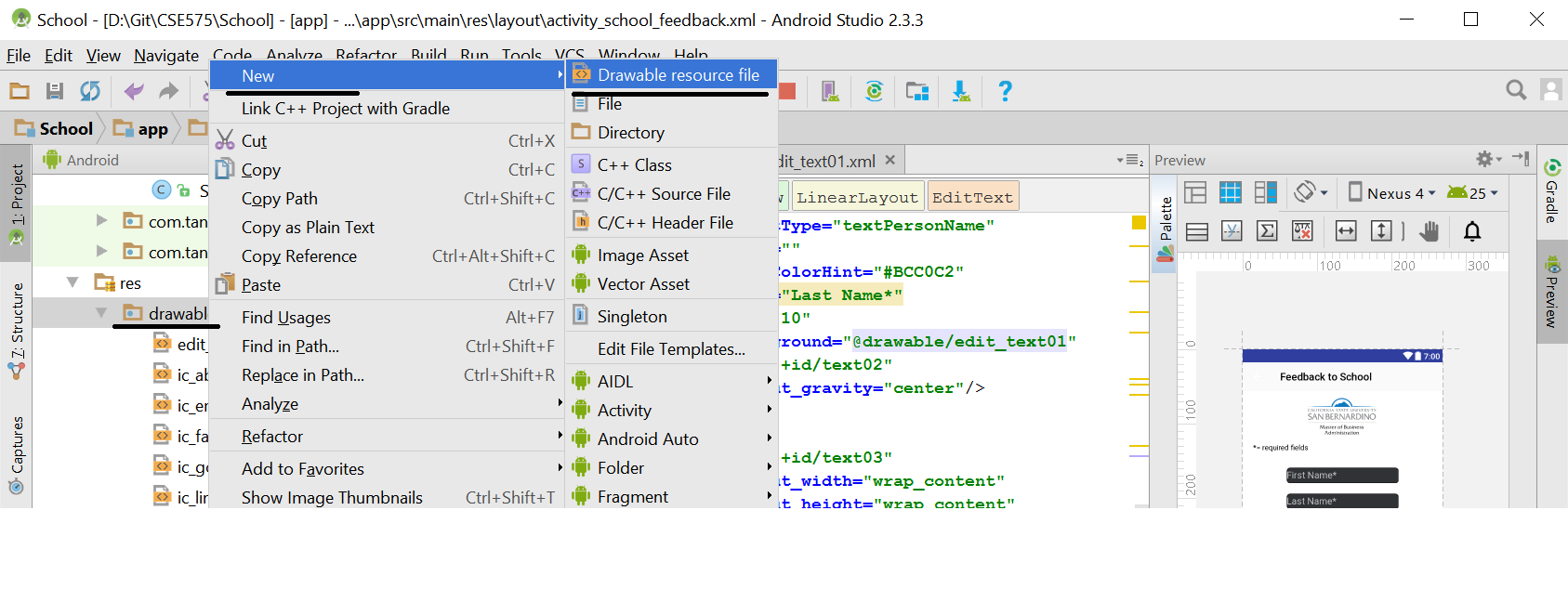
<**activity  
 android:name=".Feedback"  
 android:label="Feedback"  
 android:parentActivityName=".MainActivity"  
 android:theme="@style/customTheme"**></**activity**>

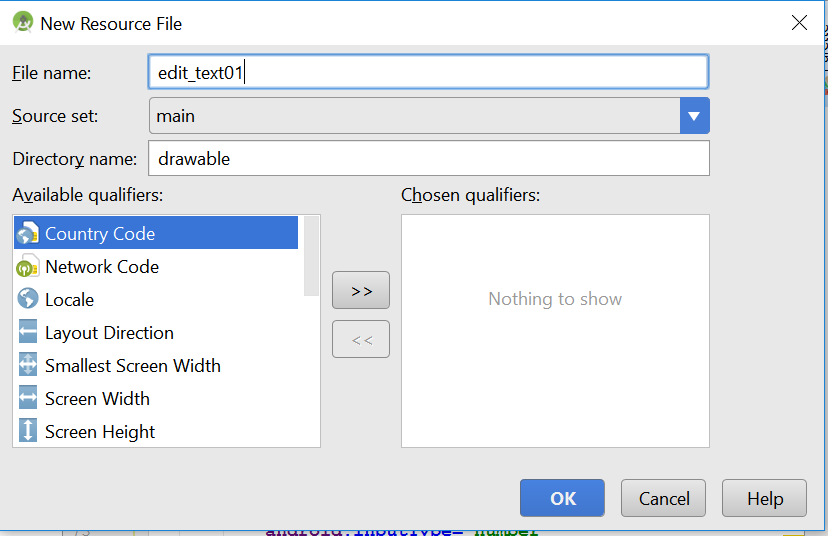


Feedback.java

**package** com.tando.school;  
  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
  
**public class** Feedback **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_feedback***);  
 }  
  
 *//SchoolFeedback activity* **public void** feedbackSchool (View view) {  
 startActivity(**new** Intent(**this**, SchoolFeedback.**class**));  
 }  
 *//DepFeedback activity (feedback to a department)* **public void** feedbackDep (View view) {  
 startActivity(**new** Intent(**this**, DepFeedback.**class**));  
 }  
 *//link to FaceBook* **public void** fbClick (View view) {  
 *//use startActivity and Intent methods to parse the link* startActivity(**new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(**"https://www.facebook.com/flitetest/"**)));  
 }  
 *//google+* **public void** googleClick (View view) {  
 *//use startActivity and Intent methods to parse the link* startActivity(**new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(**"https://plus.google.com/u/0/+google"**)));  
 }  
 *//LinkedIn* **public void** linkedInClick (View view) {  
 *//use startActivity and Intent methods to parse the link* startActivity(**new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(**"https://www.linkedin.com/in/mbacsusb/"**)));  
 }  
 *//youtube* **public void** youTubeClick (View view) {  
 *//use startActivity and Intent methods to parse the link* startActivity(**new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(**"https://www.youtube.com/channel/UCwqJShoifP6032UXYe-sD-A"**)));  
 }  
 *//Twitter* **public void** twitterClick (View view) {  
 *//use startActivity and Intent methods to parse the link* startActivity(**new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(**"https://twitter.com/Google"**)));  
 }  
}

* 1. Style UI for SchoolFeedback
* Style the EditText fields: as shown in the images below





edit\_text01.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**shape xmlns:android="http://schemas.android.com/apk/res/android"  
 android:padding="2dp"  
 android:shape="rectangle"** >  
 <**solid android:color="#313235"**/>  
 <**corners android:radius="12px"**/>  
 <**stroke android:width="1dp" android:color="#000"**/>  
 <**size android:height="30dp"**></**size**>  
</**shape**>

* Make a bigger EditText field for messages: do the same steps as edit\_text01, and call it edit\_text02

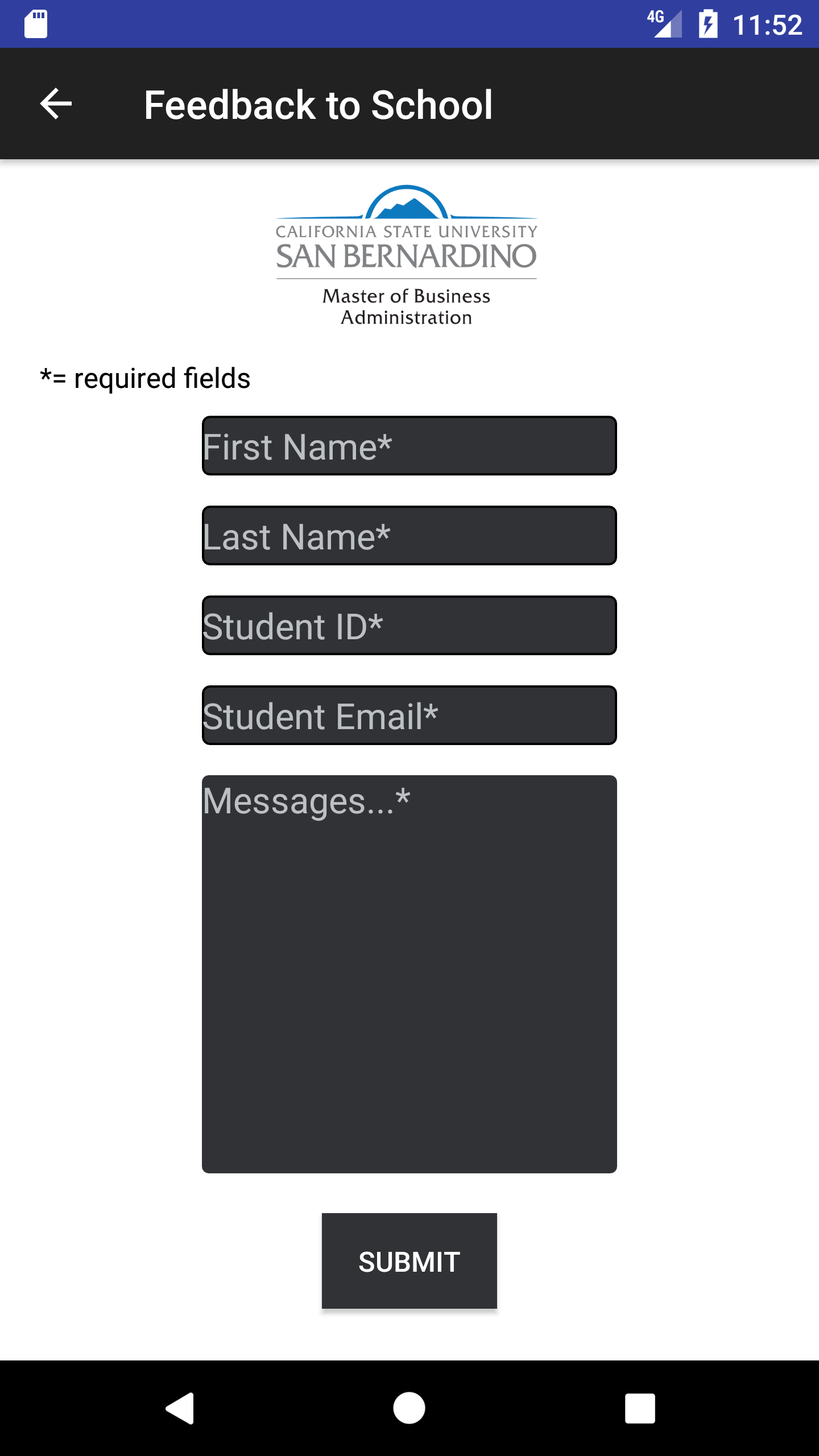
edit\_text02.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**shape xmlns:android="http://schemas.android.com/apk/res/android"  
 android:padding="2dp"  
 android:shape="rectangle"** >  
 <**solid android:color="#313235"**/>  
 <**corners android:radius="12px"**/>  
 <**size android:height="200dp"**/>  
</**shape**>

* Next SchoolFeedback UI

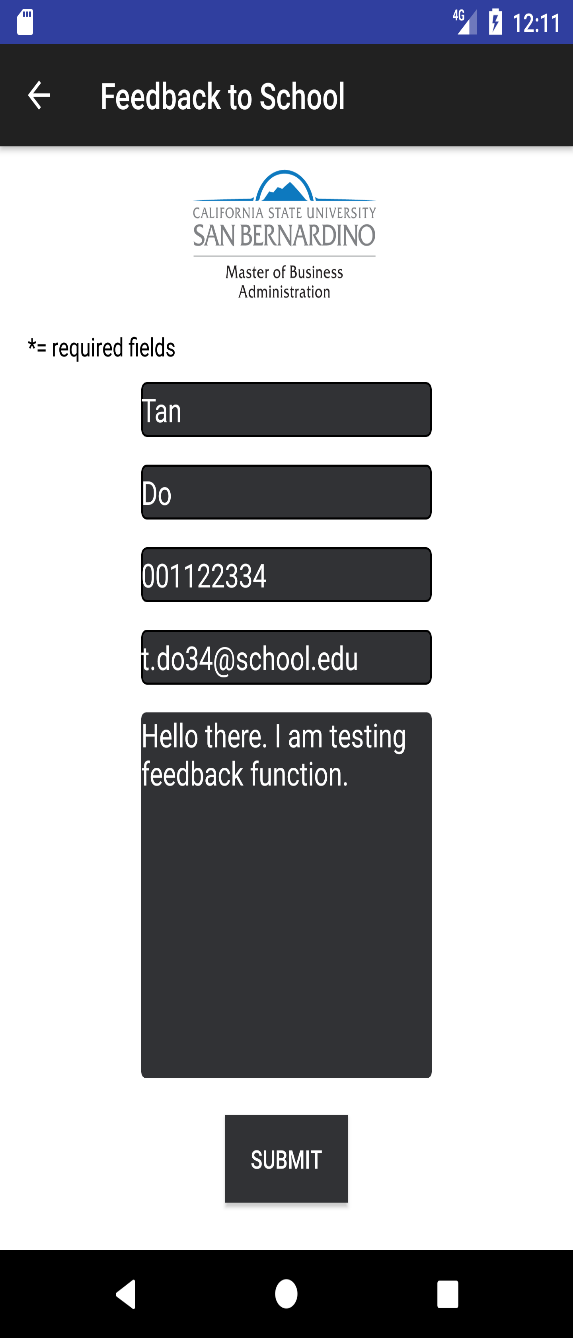
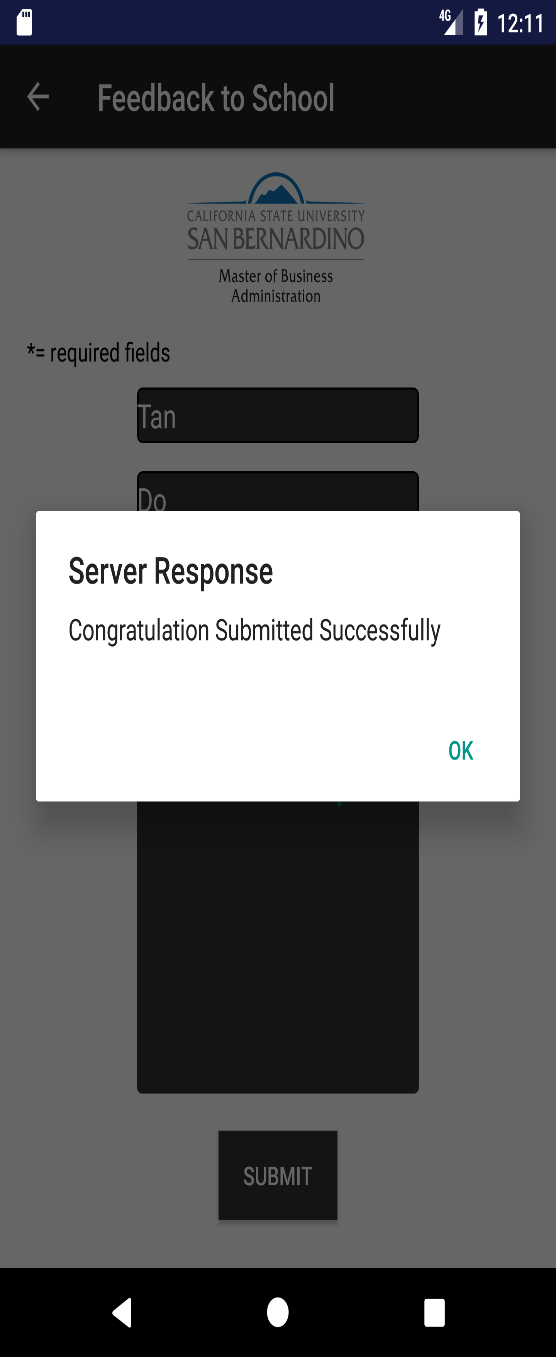
activity\_school\_feedback.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.tando.school.SchoolFeedback"  
 android:orientation="vertical"  
 android:background="#FFF"**>  
 <**ScrollView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
 <**LinearLayout  
 android:orientation="vertical"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_marginBottom="10dp"**>  
  
 *<!--Logo -->* <**ImageView  
 android:id="@+id/logo"  
 android:layout\_width="150dp"  
 android:layout\_height="100dp"  
 android:background="@drawable/school\_logo"  
 android:layout\_gravity="center"**/>  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="left"  
 android:layout\_marginLeft="20dp"  
 android:textColor="#000"  
 android:text="\*= required fields"**/>  
 <**EditText  
 android:layout\_marginTop="10dp"  
 android:layout\_marginBottom="15dp"  
 android:textColor="#000000"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="textPersonName"  
 android:text=""  
 android:textColorHint="#BCC0C2"  
 android:hint="First Name\*"  
 android:ems="10"  
 android:background="@drawable/edit\_text01"  
 android:id="@+id/text01"  
 android:layout\_gravity="center"**/>  
  
 <**EditText  
 android:layout\_marginBottom="15dp"  
 android:textColor="#000000"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="textPersonName"  
 android:text=""  
 android:textColorHint="#BCC0C2"  
 android:hint="Last Name\*"  
 android:ems="10"  
 android:background="@drawable/edit\_text01"  
 android:id="@+id/text02"  
 android:layout\_gravity="center"**/>  
  
 <**EditText  
 android:id="@+id/text03"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_gravity="center"  
 android:layout\_marginBottom="15dp"  
 android:background="@drawable/edit\_text01"  
 android:ems="10"  
 android:hint="Student ID\*"  
 android:inputType="number"  
 android:text=""  
 android:textColor="#000000"  
 android:textColorHint="#BCC0C2"** />  
 <**EditText  
 android:layout\_marginBottom="15dp"  
 android:textColor="#000000"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="textPersonName"  
 android:text=""  
 android:textColorHint="#BCC0C2"  
 android:hint="Student Email\*"  
 android:ems="10"  
 android:background="@drawable/edit\_text01"  
 android:id="@+id/text04"  
 android:layout\_gravity="center"**/>  
 <**EditText  
 android:gravity="top"  
 android:layout\_marginBottom="10dp"  
 android:textColor="#000000"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text=""  
 android:textColorHint="#BCC0C2"  
 android:hint="Messages...\*"  
 android:ems="10"  
 android:background="@drawable/edit\_text02"  
 android:id="@+id/text05"  
 android:layout\_gravity="center"**/>  
 <**Button  
 android:text="Submit"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/bnt01"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginBottom="10dp"  
 android:background="#313235"  
 android:textColor="#FFF"**/>  
 </**LinearLayout**>  
 </**ScrollView**>  
</**LinearLayout**>

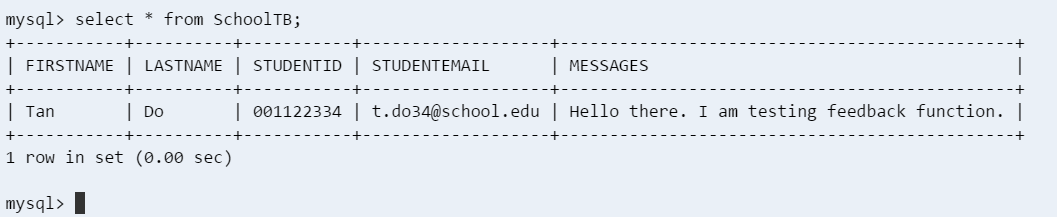


SchoolFeedback.java: details in comments

**package** com.tando.school;  
  
**import** android.content.Context;  
**import** android.content.DialogInterface;  
**import** android.support.v7.app.AlertDialog;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.view.inputmethod.InputMethodManager;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**import** com.android.volley.AuthFailureError;  
**import** com.android.volley.Request;  
**import** com.android.volley.Response;  
**import** com.android.volley.VolleyError;  
**import** com.android.volley.toolbox.StringRequest;  
  
**import** java.util.HashMap;  
**import** java.util.Map;  
  
**public class** SchoolFeedback **extends** AppCompatActivity {  
 *//Declare variables* Button **bntfunc**;  
 EditText **FirstName**, **LastName**, **StudentID**, **StudentEmail**, **Messages**;  
 *//link to server* String **server\_url** =**"https://schoolserver-tand089.c9users.io/SchoolFeedback.php"**;  
  
 AlertDialog.Builder **builder**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_school\_feedback***);  
 *//cast the variables* **bntfunc** = (Button) findViewById(R.id.***bnt01***);  
 **FirstName** = (EditText) findViewById(R.id.***text01***);  
 **LastName** = (EditText) findViewById(R.id.***text02***);  
 **StudentID** =(EditText) findViewById(R.id.***text03***);  
 **StudentEmail** = (EditText) findViewById(R.id.***text04***);  
 **Messages** = (EditText) findViewById(R.id.***text05***);  
 **builder** = **new** AlertDialog.Builder(SchoolFeedback.**this**);  
  
 *//set fucntion for the submit button* **bntfunc**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 *//Hide virtual keyboard after click the submit button* InputMethodManager inputManager = (InputMethodManager)  
 getSystemService(Context.***INPUT\_METHOD\_SERVICE***);  
  
 inputManager.hideSoftInputFromWindow(getCurrentFocus().getWindowToken(),  
 InputMethodManager.***HIDE\_NOT\_ALWAYS***);  
 *//declares some strings* **final** String firstName, lastName, studentID, studentEmail, messages;  
 *//covert inputs from edittexts to strings* firstName = **FirstName**.getText().toString();  
 lastName = **LastName**.getText().toString();  
 studentID = **StudentID**.getText().toString();  
 studentEmail = **StudentEmail**.getText().toString();  
 messages = **Messages**.getText().toString();  
 *//Ensure no empty fields* **if** (firstName.equals(**""**) || lastName.equals(**""**) || studentID.equals(**""**)  
 || studentEmail.equals(**""**) || messages.equals(**""**)) {  
 **builder**.setTitle(**"Error!!!"**);  
 *//Creating a AlertDialog to display errors* AlertDialog alertDialog01 = **builder**.create();  
 alertDialog01.setMessage(**"Please Enter All Required Fields\*"**);  
 alertDialog01.show();  
 }  
 **else** {  
 *//request with POST method and string* StringRequest stringRequest = **new** StringRequest(Request.Method.***POST***, **server\_url**,  
 **new** Response.Listener<String>() {  
 @Override  
 **public void** onResponse(String response) {  
 *//get response form server to check if it is successfully submitted* **builder**.setTitle(**"Server Response"**);  
 **builder**.setMessage(**"Congratulation"** + **" "** + response);  
 **builder**.setPositiveButton(**"OK"**, **new** DialogInterface.OnClickListener() {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** which) {  
 *//clear the text fields after submit* **FirstName**.setText(**""**);  
 **LastName**.setText(**""**);  
 **StudentID**.setText(**""**);  
 **StudentEmail**.setText(**""**);  
 **Messages**.setText(**""**);  
 }  
 });  
 AlertDialog alertDialog = **builder**.create();  
 alertDialog.show();  
 }  
 },  
 **new** Response.ErrorListener() {  
 @Override  
 **public void** onErrorResponse(VolleyError error) {  
 Toast.*makeText*(SchoolFeedback.**this**, **"Error!!!"**, Toast.***LENGTH\_SHORT***).show();  
 error.printStackTrace();  
 }  
 }) {  
 @Override  
 **protected** Map<String, String> getParams() **throws** AuthFailureError {  
 Map<String, String> params = **new** HashMap<String, String>();  
 *//send data to mySQL server  
 //the keys must be same as field names in mySQL server* params.put(**"FIRSTNAME"**, firstName);  
 params.put(**"LASTNAME"**, lastName);  
 params.put(**"STUDENTID"**, studentID);  
 params.put(**"STUDENTEMAIL"**, studentEmail);  
 params.put(**"MESSAGES"**, messages);  
 **return** params;  
 }  
 };  
 MySingleton.*getInstance*(SchoolFeedback.**this**).addTorequestqueue(stringRequest);  
 }  
 }  
 });  
 }  
}

* Check for the database on server to see if we have successfully stored the information into MySQL table



* That is all for the Feedback activity. We can use this implementation to implement for feedback to other departments in school.