

Mobile Application

CMP 354 Dr. Tamer Shanableh

Course Project: My Fitness application

Issa Haddad - 47102

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Sources:

1. <https://www.youtube.com/watch?v=O5pxlyyyvbw>. (How to use Geocoder)
2. <http://stackoverflow.com/questions/17951376/how-to-prevent-app-from-closing-when-geocoder-address-list-is-null>. (how to prevent app from crashing when address list is null)
3. <http://www.bodybuilding.com/> (Connected link in application to search engine in this website)
4. Used this format (http://www.bodybuilding.com/search/#/?q=bench%20press%20machine
5. <http://stackoverflow.com/questions/11726023/split-string-into-individual-words-java> (This link helped me take exercise name as a string and generate a URL that corresponds to the search engine in [www.bodybuilding.com](http://www.bodybuilding.com).
6. <http://www.bodybuilding.com/fun/issa64.htm> (this link gave me the information I needed to create an activity that calculates BMR, protein, fat, and carbohydrate requirement for each person per day.
7. <http://www.w3schools.com/tags/ref_colorpicker.asp> This link helped me choose an appropriate background color and text color.
8. <http://stackoverflow.com/questions/20762001/how-to-set-seekbar-min-and-max-value> (This link helped me set a min and a max value for the seekbar since fat is recommended to be only between 15 % and 50 % of your entire diet)
9. <http://stackoverflow.com/questions/4540684/java-round-up-any-number> This link helped me round up numbers in diet calculations.

--- MainActivity.java ---

**package** com.example.user.myfitness;  
  
**import** android.app.Activity;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**import** android.os.Bundle;  
**import** android.preference.PreferenceManager;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.Snackbar;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.View;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.widget.Button;  
  
**public class** MainActivity **extends** Activity **implements** View.OnClickListener{  
  
 **private** Button **one**;  
 **private** Button **two**;  
 **private** Button **three**;  
 **private** SharedPreferences **prefs**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **one** = (Button) findViewById(R.id.***button\_one***);  
 **two** = (Button) findViewById(R.id.***button\_two***);  
 **three** = (Button) findViewById(R.id.***button\_three***);  
  
 **one**.setOnClickListener(**this**);  
 **two**.setOnClickListener(**this**);  
 **three**.setOnClickListener(**this**);  
  
  
 PreferenceManager.*setDefaultValues*(**this**, R.xml.***preferences***, **false**);  
 **prefs** = PreferenceManager.*getDefaultSharedPreferences*(**this**);  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.***menu\_main***, menu);  
 **return true**;  
 }  
  
 **public void** onPause() {  
 *// save the instance variables* SharedPreferences.Editor editor = **prefs**.edit();  
 editor.commit();  
 **super**.onPause();  
 }  
  
  
 **public void** onResume() {  
 **super**.onResume();  
  
 *// get preferences* **one**.setText(**prefs**.getString(**"pref\_button1"**, **" "**));  
 }  
  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 **switch** (item.getItemId()) {  
 **case** R.id.***action\_settings***:  
 *// Toast.makeText(this, "Settings", Toast.LENGTH\_SHORT).show();* startActivity(**new** Intent(**this**, SettingsActivity.**class**));  
 **return true**;  
 **default**:  
 **return super**.onOptionsItemSelected(item);  
 }  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 **switch** (v.getId()) {  
 **case** R.id.***button\_one***:  
 Intent save =  
 **new** Intent(MainActivity.**this**, SaveActive.**class**);  
 startActivity(save);  
 **break**;  
 **case** R.id.***button\_two***:  
 Intent mydiet =  
 **new** Intent(MainActivity.**this**, Mydiet.**class**);  
 startActivity(mydiet);  
 **break**;  
 **case** R.id.***button\_three***:  
 Intent myplace =  
 **new** Intent(MainActivity.**this**, Findplace.**class**);  
 startActivity(myplace);  
 **break**;  
 }  
 }  
}

--- content\_main.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  
 tools:context="com.example.user.myfitness.MainActivity"  
 tools:showIn="@layout/activity\_main"  
 android:background="#b3b3b3"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textAppearance="?android:attr/textAppearanceLarge"  
 android:text="My Fitness App"  
 android:id="@+id/textView"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:textSize="30dp"  
 android:textColor="#000"** />  
  
 <**Button  
 style="?android:attr/buttonStyleSmall"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="My Workout"  
 android:id="@+id/button\_one"  
 android:layout\_below="@+id/textView"  
 android:layout\_marginTop="46dp"  
 android:textStyle="italic"  
 android:layout\_alignRight="@+id/textView"  
 android:layout\_alignEnd="@+id/textView"  
 android:layout\_alignLeft="@+id/textView"  
 android:layout\_alignStart="@+id/textView"  
 android:background="#8aa88a"** />  
  
 <**Button  
 style="?android:attr/buttonStyleSmall"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="My Diet"  
 android:id="@+id/button\_two"  
 android:layout\_below="@+id/button\_one"  
 android:layout\_alignLeft="@+id/button\_one"  
 android:layout\_alignStart="@+id/button\_one"  
 android:layout\_alignRight="@+id/button\_one"  
 android:layout\_alignEnd="@+id/button\_one"  
 android:textStyle="italic"  
 android:background="#8aa88a"  
 android:layout\_marginTop="5dp"** />  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Find Gym"  
 android:id="@+id/button\_three"  
 android:layout\_below="@+id/button\_two"  
 android:layout\_alignLeft="@+id/button\_two"  
 android:layout\_alignStart="@+id/button\_two"  
 android:layout\_alignRight="@+id/button\_two"  
 android:layout\_alignEnd="@+id/button\_two"  
 android:textStyle="italic"  
 android:background="#8aa88a"  
 android:layout\_marginTop="5dp"** />  
  
</**RelativeLayout**>

--- Mydiet.java ---

**package** com.example.user.myfitness;  
  
**import** android.app.Activity;  
**import** android.content.SharedPreferences;  
**import** android.os.Bundle;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.Snackbar;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.KeyEvent;  
**import** android.view.View;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.view.inputmethod.InputMethodManager;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.SeekBar;  
**import** android.widget.Spinner;  
**import** android.widget.TextView;  
  
**import** java.text.NumberFormat;  
  
**public class** Mydiet **extends** Activity **implements** TextView.OnEditorActionListener, SeekBar.OnSeekBarChangeListener, View.OnClickListener {  
  
 **private** TextView **weight**;  
 **private** TextView **gender**;  
 **private** TextView **bfp**;  
 **private** TextView **activityl**;  
 **private** TextView **bodyc**;  
 **private** TextView **ffd**;  
 **private** TextView **ffdv**;  
 **private** TextView **bmr**;  
 **private** TextView **dce**;  
 **private** TextView **proteing**;  
 **private** TextView **proteinc**;  
 **private** TextView **fatg**;  
 **private** TextView **fatc**;  
 **private** TextView **carbg**;  
 **private** TextView **carbc**;  
 **private** EditText **weightv**;  
 **private** EditText **bmrv**;  
 **private** EditText **dcev**;  
 **private** EditText **proteingv**;  
 **private** EditText **proteincv**;  
 **private** EditText **fatgv**;  
 **private** EditText **fatcv**;  
 **private** EditText **carbgv**;  
 **private** EditText **carbcv**;  
 **private** Spinner **gspin**;  
 **private** Spinner **bfpspin**;  
 **private** Spinner **activitylspin**;  
 **private** Spinner **bodycspin**;  
 **private** SeekBar **ffdseek**;  
 **private** Button **calculate**;  
 **private** SharedPreferences **savedValues**;  
 String **WeightString**;  
 String **GenderString**;  
 String **BFPString**;  
 String **ActivitylString**;  
 String **BodycString**;  
 String **ffdString**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_mydiet);  
 weight = (TextView) findViewById(R.id.weightTextView);  
 gender = (TextView) findViewById(R.id.genderTextView);  
 bfp = (TextView) findViewById(R.id.BFPtextView);  
 activityl = (TextView) findViewById(R.id.ALtextView);  
 bodyc = (TextView) findViewById(R.id.BCtextView);  
 ffd = (TextView) findViewById(R.id.ffdTextView);  
 ffdv = (TextView) findViewById(R.id.ffdvTextView);  
 bmr = (TextView) findViewById(R.id.BMRTextView);  
 dce = (TextView) findViewById(R.id.DCETextView);  
 proteing = (TextView) findViewById(R.id.PGTextView);  
 proteinc = (TextView) findViewById(R.id.PCTextView);  
 fatg = (TextView) findViewById(R.id.FGTextView);  
 fatc = (TextView) findViewById(R.id.FCTextView);  
 carbg = (TextView) findViewById(R.id.CGTextView);  
 carbc = (TextView) findViewById(R.id.CCTextView);  
 weightv = (EditText) findViewById(R.id.weightEditText);  
 bmrv = (EditText) findViewById(R.id.BMREditText);  
 dcev = (EditText) findViewById(R.id.DCEEditText);  
 proteingv = (EditText) findViewById(R.id.PGEditText);  
 proteincv = (EditText) findViewById(R.id.PCEditText);  
 fatgv = (EditText) findViewById(R.id.FGEditText);  
 fatcv = (EditText) findViewById(R.id.FCEditText);  
 carbgv = (EditText) findViewById(R.id.CGEditText);  
 carbcv = (EditText) findViewById(R.id.CCEditText);  
 gspin = (Spinner) findViewById(R.id.Gspinner);  
 bfpspin = (Spinner) findViewById(R.id.BFPspinner);  
 activitylspin = (Spinner) findViewById(R.id.ALspinner);  
 bodycspin = (Spinner) findViewById(R.id.BCspinner);  
 ffdseek = (SeekBar) findViewById(R.id.ffdSeekBar);  
 calculate = (Button) findViewById(R.id.button);  
  
 bmrv.setKeyListener(**null**);  
 dcev.setKeyListener(**null**);  
 proteingv.setKeyListener(**null**);  
 proteincv.setKeyListener(**null**);  
 fatgv.setKeyListener(**null**);  
 fatcv.setKeyListener(**null**);  
 carbgv.setKeyListener(**null**);  
 carbcv.setKeyListener(**null**);  
  
 ArrayAdapter<CharSequence> adapter1 = ArrayAdapter.createFromResource(**this**, R.array.gender, android.R.layout.simple\_spinner\_item);  
 ArrayAdapter<CharSequence> adapter2 = ArrayAdapter.createFromResource(**this**, R.array.pbf, android.R.layout.simple\_spinner\_item);  
 ArrayAdapter<CharSequence> adapter3 = ArrayAdapter.createFromResource(**this**, R.array.activityl, android.R.layout.simple\_spinner\_item);  
 ArrayAdapter<CharSequence> adapter4 = ArrayAdapter.createFromResource(**this**, R.array.bodyc, android.R.layout.simple\_spinner\_item);  
  
 ffdseek.setOnSeekBarChangeListener(**this**);  
 calculate.setOnClickListener(**this**);  
 gspin.setAdapter(adapter1);  
 bfpspin.setAdapter(adapter2);  
 activitylspin.setAdapter(adapter3);  
 bodycspin.setAdapter(adapter4);  
  
 savedValues = getSharedPreferences(**"SavedValues"**, MODE\_PRIVATE);  
 }  
  
 **public void** CalculateAndDisplay()  
 {  
 WeightString = weightv.getText().toString();  
 GenderString = (String) gspin.getSelectedItem();  
 BFPString = (String) bfpspin.getSelectedItem();  
 ActivitylString = (String) activitylspin.getSelectedItem();  
 BodycString = (String) bodycspin.getSelectedItem();  
 ffdString = (String) ffdv.getText().toString();  
 **float** Weightnum;  
 **float** genderMulti;  
 **float** bfpMulti;  
 **float** activitylMulti;  
 **float** bodycMulti;  
 **float** ffdMulti;  
 **float** BMRnum;  
 **float** DCEnum;  
 **float** PGnum;  
 **float** PCnum;  
 **float** FGnum;  
 **float** FCnum;  
 **float** CGnum;  
 **float** CCnum;  
  
 **if** (WeightString.equals(**""**))  
 {  
 Weightnum = 0;  
 }  
 **else** {  
 Weightnum = Float.parseFloat(WeightString);  
 }  
  
 ffdMulti = (**int**) Float.parseFloat(ffdString);  
 ffdMulti = ffdMulti / 100;  
  
 **if** (GenderString.equals(**"Male"**))  
 {  
 genderMulti = 1;  
 }  
 **else** {  
 genderMulti = (**float**) 0.9;  
 }  
  
 **if** (BFPString.equals(**"Men(10-14) Women(14-18)"**))  
 {  
 bfpMulti = 1;  
 }  
 **else if** (BFPString.equals(**"Men(14-20) Women(18-28)"**))  
 {  
 bfpMulti = (**float**) 0.95;  
 }  
 **else if** (BFPString.equals(**"Men(20-28) Women(28-38)"**))  
 {  
 bfpMulti = (**float**) 0.90;  
 }  
 **else** {  
 bfpMulti = (**float**) 0.85;  
 }  
  
 **if** (ActivitylString.equals(**"Very Light"**))  
 {  
 activitylMulti = (**float**) 1.30;  
 }  
 **else if** (ActivitylString.equals(**"Light"**))  
 {  
 activitylMulti = (**float**) 1.55;  
 }  
 **else if** (ActivitylString.equals(**"Moderate"**))  
 {  
 activitylMulti = (**float**) 1.65;  
 }  
 **else if** (ActivitylString.equals(**"Heavy"**))  
 {  
 activitylMulti = (**float**) 1.80;  
 }  
 **else** {  
 activitylMulti = (**float**) 2.00;  
 }  
  
 **if** (BodycString.equals(**"Sedentary Adult"**))  
 {  
 bodycMulti = (**float**) 0.40;  
 }  
 **else if** (BodycString.equals(**"Adult Recreational Exerciser"**))  
 {  
 bodycMulti = (**float**) 0.75;  
 }  
 **else if** (BodycString.equals(**"Adult Competitive Athlete"**))  
 {  
 bodycMulti = (**float**) 0.90;  
 }  
 **else if** (BodycString.equals(**"Adult Building Muscle Mass"**))  
 {  
 bodycMulti = (**float**) 0.90;  
 }  
 **else if** (BodycString.equals(**"Dieting Athlete"**))  
 {  
 bodycMulti = (**float**) 1.0;  
 }  
 **else** {  
 bodycMulti = (**float**) 1.0;  
 }  
  
 BMRnum = genderMulti \* Weightnum \* bfpMulti \* 24;  
 DCEnum = BMRnum \* activitylMulti;  
 PGnum = (**float**) (Weightnum \* bodycMulti \* 2.20462262);  
 PCnum = PGnum \*4;  
 FCnum = ffdMulti \* DCEnum;  
 FGnum = FCnum/9;  
 CCnum = DCEnum - PCnum - FCnum;  
 CGnum = CCnum/4;  
  
 **float** BMRrounded = (**float**) Math.ceil(BMRnum);  
 **float** DCErounded = (**float**) Math.ceil(DCEnum);  
 **float** PGrounded = (**float**) Math.ceil(PGnum);  
 **float** PCrounded = (**float**) Math.ceil(PCnum);  
 **float** FGrounded = (**float**) Math.ceil(FGnum);  
 **float** FCrounded = (**float**) Math.ceil(FCnum);  
 **float** CGrounded = (**float**) Math.ceil(CGnum);  
 **float** CCrounded = (**float**) Math.ceil(CCnum);  
  
 bmrv.setText(NumberFormat.getNumberInstance().format(BMRrounded));  
 dcev.setText(NumberFormat.getNumberInstance().format(DCErounded));  
 proteingv.setText(NumberFormat.getNumberInstance().format(PGrounded));  
 proteincv.setText(NumberFormat.getNumberInstance().format(PCrounded));  
 fatgv.setText(NumberFormat.getNumberInstance().format(FGrounded));  
 fatcv.setText(NumberFormat.getNumberInstance().format(FCrounded));  
 carbgv.setText(NumberFormat.getNumberInstance().format(CGrounded));  
 carbcv.setText(NumberFormat.getNumberInstance().format(CCrounded));  
 }  
  
 @Override  
 **protected void** onResume() {  
 **super**.onResume();  
 WeightString=savedValues.getString(**"WeightString"**, **""**);  
 GenderString=savedValues.getString(**"GenderString"**,**""**);  
 BFPString=savedValues.getString(**"BFPString"**,**""**);  
 ActivitylString=savedValues.getString(**"ActivitylString"**,**""**);  
 BodycString=savedValues.getString(**"BodycString"**,**""**);  
 ffdString=savedValues.getString(**"ffdString"**,**""**);  
 CalculateAndDisplay();  
 }  
  
 @Override  
 **protected void** onPause() {  
 SharedPreferences.Editor editor = savedValues.edit();  
 editor.putString(**"WeightString"**, WeightString);  
 editor.putString(**"BFPString"**, BFPString);  
 editor.putString(**"ActivitylString"**, ActivitylString);  
 editor.putString(**"BodycString"**, BodycString);  
 editor.putString(**"ffdString"**, ffdString);  
 CalculateAndDisplay();  
 **super**.onPause();  
 }  
  
 @Override  
 **public boolean** onCreateOptionsMenu(Menu menu) {  
 *// Inflate the menu; this adds items to the action bar if it is present.* getMenuInflater().inflate(R.menu.menu\_main, menu);  
 **return true**;  
 }  
  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 *// Handle action bar item clicks here. The action bar will  
 // automatically handle clicks on the Home/Up button, so long  
 // as you specify a parent activity in AndroidManifest.xml.* **int** id = item.getItemId();  
  
 *//noinspection SimplifiableIfStatement* **if** (id == R.id.action\_settings) {  
 **return true**;  
 }  
  
 **return super**.onOptionsItemSelected(item);  
 }  
  
 @Override  
 **public boolean** onEditorAction(TextView v, **int** actionId, KeyEvent event) {  
 CalculateAndDisplay();  
 **return false**;  
 }  
  
 @Override  
 **public void** onProgressChanged(SeekBar seekBar, **int** progress, **boolean** fromUser) {  
 **double** value;  
 value = 15 + progress;  
 **ffdv**.setText(value + **""**);  
 }  
  
 @Override  
 **public void** onStartTrackingTouch(SeekBar seekBar) {  
 }  
  
 @Override  
 **public void** onStopTrackingTouch(SeekBar seekBar) {  
 CalculateAndDisplay();  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 View view = **this**.getCurrentFocus();  
 InputMethodManager imm = (InputMethodManager)getSystemService(***INPUT\_METHOD\_SERVICE***);  
 imm.hideSoftInputFromWindow(view.getWindowToken(), 0);  
 CalculateAndDisplay();  
 }  
}

--- content\_mydiet.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**TableLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools" android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent" android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 android:paddingBottom="@dimen/activity\_vertical\_margin" tools:context=".TipActivity"  
 android:id="@+id/tableLayout"  
 android:padding="5dp"  
 android:stretchColumns="1, 2, 3"  
 android:background="#b3b3b3"**>  
  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow0"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Weight(Kg)"  
 android:id="@+id/weightTextView"  
 android:textColor="#000"** />  
  
 <**EditText  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/weightEditText"  
 android:layout\_weight="1"  
 android:layout\_span="3"** />  
  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow1"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Gender"  
 android:id="@+id/genderTextView"  
 android:textColor="#000"  
 android:layout\_weight="0.4"** />  
  
 <**Spinner  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/Gspinner"  
 android:layout\_weight="1"** />  
  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow2"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="BFP"  
 android:id="@+id/BFPtextView"  
 android:textColor="#000"  
 android:layout\_weight="0.4"** />  
  
 <**Spinner  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/BFPspinner"  
 android:layout\_weight="1"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow3"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Activity Level"  
 android:id="@+id/ALtextView"  
 android:textColor="#000"  
 android:layout\_weight="0.4"** />  
  
 <**Spinner  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/ALspinner"  
 android:layout\_weight="1"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow4"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Body Category"  
 android:id="@+id/BCtextView"  
 android:textColor="#000"  
 android:layout\_weight="0.4"** />  
  
 <**Spinner  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/BCspinner"  
 android:layout\_weight="1"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow5"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Fat from diet"  
 android:id="@+id/ffdTextView"  
 android:textColor="#000"** />  
  
 <**SeekBar  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/ffdSeekBar"  
 android:indeterminate="false"  
 android:layout\_weight="1"  
 android:layout\_span="2"  
 android:progress="30"  
 android:paddingLeft="8dp"  
 android:paddingRight="8dp"  
 android:max="35"  
 android:layout\_column="1"** />  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="45.0"  
 android:id="@+id/ffdvTextView"  
 android:layout\_weight="1"  
 android:textColor="#000"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow6"**>  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Calculate"  
 android:id="@+id/button"  
 android:layout\_weight="1"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow7"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="BMR"  
 android:id="@+id/BMRTextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/BMREditText"  
 android:layout\_weight="1"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"** />  
  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow8"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Daily calorie Expenditure"  
 android:id="@+id/DCETextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/DCEEditText"  
 android:layout\_weight="1"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"** />  
  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow9"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Protein grams"  
 android:id="@+id/PGTextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/PGEditText"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"  
 android:layout\_weight="0.75"** />  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Protein calories"  
 android:id="@+id/PCTextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/PCEditText"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"  
 android:layout\_weight="0.75"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow10"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Fat grams"  
 android:id="@+id/FGTextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/FGEditText"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"  
 android:layout\_weight="0.75"** />  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Fat calories"  
 android:id="@+id/FCTextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/FCEditText"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"  
 android:layout\_weight="0.75"** />  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/tableRow11"**>  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Carbs grams"  
 android:id="@+id/CGTextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/CGEditText"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"  
 android:layout\_weight="0.75"** />  
  
 <**TextView  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Carbs calories"  
 android:id="@+id/CCTextView"  
 android:textColor="#000"  
 android:layout\_weight="1"** />  
  
 <**EditText  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:inputType="numberDecimal"  
 android:ems="10"  
 android:id="@+id/CCEditText"  
 android:gravity="center"  
 android:textSize="14sp"  
 android:focusable="true"  
 android:longClickable="false"  
 android:layout\_weight="0.75"** />  
 </**TableRow**>  
  
  
</**TableLayout**>

--- Findplace.java ---

**package** com.example.user.myfitness;  
  
**import** java.io.BufferedReader;  
**import** java.io.IOException;  
**import** java.io.InputStreamReader;  
**import** java.net.HttpURLConnection;  
**import** java.net.URL;  
**import** java.util.ArrayList;  
**import** java.util.List;  
**import** java.util.Timer;  
**import** java.util.TimerTask;  
  
**import** android.app.AlertDialog;  
**import** android.app.ProgressDialog;  
**import** android.content.Intent;  
**import** android.content.IntentSender;  
**import** android.location.Address;  
**import** android.location.Geocoder;  
**import** android.location.Location;  
**import** android.location.LocationManager;  
**import** android.os.AsyncTask;  
**import** android.os.Bundle;  
**import** android.provider.Settings;  
**import** android.support.v4.app.FragmentActivity;  
**import** android.support.v4.app.FragmentManager;  
**import** android.util.Log;  
**import** android.view.View;  
**import** android.view.View.OnClickListener;  
**import** android.view.inputmethod.InputMethodManager;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**import** com.google.android.gms.common.ConnectionResult;  
**import** com.google.android.gms.common.GooglePlayServicesClient;  
**import** com.google.android.gms.location.LocationClient;  
**import** com.google.android.gms.maps.CameraUpdateFactory;  
**import** com.google.android.gms.maps.GoogleMap;  
**import** com.google.android.gms.maps.SupportMapFragment;  
**import** com.google.android.gms.maps.model.CameraPosition;  
**import** com.google.android.gms.maps.model.LatLng;  
**import** com.google.android.gms.maps.model.MarkerOptions;  
**import** com.google.android.gms.maps.model.PolylineOptions;  
  
**import** org.json.JSONArray;  
**import** org.json.JSONException;  
**import** org.json.JSONObject;  
  
**import** javax.net.ssl.HttpsURLConnection;  
  
**public class** Findplace **extends** FragmentActivity  
 **implements** OnClickListener,  
 GooglePlayServicesClient.ConnectionCallbacks,  
 GooglePlayServicesClient.OnConnectionFailedListener {  
  
 **private final static int** CONNECTION\_FAILURE\_RESOLUTION\_REQUEST = 9000;  
 **private static final int** INTERVAL\_REFRESH = 10 \* 1000; *// 10 seconds* **private** GoogleMap map;  
 **private** LocationClient locationClient;  
 **static** List<Location> locationList; *//TS change to static  
  
 //private RunTrackerDB db; //TS* **private** Button viewgymButton;  
 **private** Button mylocButton;  
 **private** EditText Loc;  
  
 **private** Timer timer;  
  
 *//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 // Activity lifecycle methods  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\** @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_findplace);  
  
 viewgymButton = (Button) findViewById(R.id.viewGymButton);  
 mylocButton = (Button) findViewById(R.id.Mylocbutton);  
 Loc = (EditText) findViewById(R.id.locationeditText);  
 viewgymButton.setOnClickListener(**this**);  
 mylocButton.setOnClickListener(**this**);  
  
 *//db = new RunTrackerDB(this); //TS  
 //TS added this  
 //if (locationList==null)  
 // locationList = new ArrayList<Location>();  
  
 // if GPS is not enabled, start GPS settings activity* LocationManager locationManager =  
 (LocationManager) getSystemService(LOCATION\_SERVICE);  
 **if** (!locationManager.isProviderEnabled(LocationManager.GPS\_PROVIDER))  
 {  
 Toast.makeText(**this**, **"Please enable GPS!"**,  
 Toast.LENGTH\_LONG).show();  
 Intent intent =  
 **new** Intent(Settings.ACTION\_LOCATION\_SOURCE\_SETTINGS);  
 startActivity(intent);  
 }  
  
 locationClient = **new** LocationClient(**this**, **this**, **this**);  
  
 }  
  
 @Override  
 **protected void** onStart() {  
 **super**.onStart();  
  
 *// if GoogleMap object is not already available, get it* **if** (map == **null**) {  
 FragmentManager manager = getSupportFragmentManager();  
 SupportMapFragment fragment =  
 (SupportMapFragment) manager.findFragmentById(R.id.map);  
 map = fragment.getMap();  
 }  
  
 *// if GoogleMap object is available, configure it* **if** (map != **null**) {  
 map.getUiSettings().setZoomControlsEnabled(**true**);  
 }  
  
 locationClient.connect();  
 }  
  
 @Override  
 **protected void** onStop() {  
 locationClient.disconnect();  
  
 **super**.onStop();  
 }  
  
 @Override  
 **protected void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) {  
 **super**.onActivityResult(requestCode, resultCode, data);  
  
 *// if returning from connection failed resolution activity...* **if** (requestCode == CONNECTION\_FAILURE\_RESOLUTION\_REQUEST) {  
 *// do additional processing* }  
 }  
  
 *//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 // Private methods  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\** **private void** updateMap(){  
 **if** (locationClient.isConnected()){  
 setCurrentLocationMarker();  
 }  
 *//displayRun();* }  
  
 **private void** viewonMap(LatLng ll)  
 {  
 **if** (locationClient.isConnected()){  
 map.animateCamera(  
 CameraUpdateFactory.newCameraPosition(  
 **new** CameraPosition.Builder()  
 .target(ll)  
 .zoom(16.5f)  
 .bearing(0)  
 .tilt(25)  
 .build()));  
  
 *// add a marker for the current location* map.addMarker( *// add new marker* **new** MarkerOptions()  
 .position(ll)  
 .title(**"new location"**));  
 }  
 }  
  
 **private void** setCurrentLocationMarker(){  
 **if** (map != **null**) {  
 *// get current location* Location location = locationClient.getLastLocation();  
  
 **if** (location != **null**) {  
 *// zoom in on current location* map.animateCamera(  
 CameraUpdateFactory.newCameraPosition(  
 **new** CameraPosition.Builder()  
 .target(**new** LatLng(location.getLatitude(),  
 location.getLongitude()))  
 .zoom(16.5f)  
 .bearing(0)  
 .tilt(25)  
 .build()));  
  
 *// add a marker for the current location* map.clear(); *// clear old marker(s)* map.addMarker( *// add new marker* **new** MarkerOptions()  
 .position(**new** LatLng(location.getLatitude(),  
 location.getLongitude()))  
 .title(**"You are here"**));  
 }  
 }  
 }  
  
 *//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 // Implement ConnectionCallbacks interface  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\** @Override  
 **public void** onConnected(Bundle dataBundle) {  
 updateMap();  
 }  
  
 @Override  
 **public void** onDisconnected() {  
 timer.cancel();  
 Toast.makeText(**this**, **"Disconnected"**, Toast.LENGTH\_SHORT).show();  
 }  
  
 *//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 // Implement OnConnectionFailedListener  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\** @Override  
 **public void** onConnectionFailed(ConnectionResult connectionResult) {  
 *// if Google Play services can resolve the error, display activity* **if** (connectionResult.hasResolution()) {  
 **try** {  
 *// start an Activity that tries to resolve the error* connectionResult.startResolutionForResult(**this**,  
 CONNECTION\_FAILURE\_RESOLUTION\_REQUEST);  
 }  
 **catch** (IntentSender.SendIntentException e) {  
 e.printStackTrace();  
 }  
 }  
 **else** {  
 **new** AlertDialog.Builder(**this**)  
 .setMessage(**"Connection failed. Error code: "** + connectionResult.getErrorCode())  
 .show();  
 }  
 }  
  
 *//\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
 // Implement OnClickListener  
 //\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\** @Override  
 **public void** onClick(View v) {  
 **switch** (v.getId()) {  
 **case** R.id.viewGymButton:  
 String location = Loc.getText().toString();  
 Geocoder gc = **new** Geocoder(**this**);  
 List<Address> list = **null**;  
 **try** {  
 list = gc.getFromLocationName(location, 1);  
 } **catch** (IOException e) {  
 e.printStackTrace();  
 }  
 **if** (list != **null** && list.size() >0) {  
 Address add = list.get(0);  
 **double** lat = add.getLatitude();  
 **double** lng = add.getLongitude();  
 LatLng ll = **new** LatLng(lat, lng);  
 View view = **this**.getCurrentFocus();  
 InputMethodManager imm = (InputMethodManager) getSystemService(***INPUT\_METHOD\_SERVICE***);  
 imm.hideSoftInputFromWindow(view.getWindowToken(), 0);  
 viewonMap(ll);  
 }  
 **else** {  
 View view = **this**.getCurrentFocus();  
 InputMethodManager imm = (InputMethodManager) getSystemService(***INPUT\_METHOD\_SERVICE***);  
 imm.hideSoftInputFromWindow(view.getWindowToken(), 0);  
 Toast.*makeText*(**this**, **"Address entered is invalid!"**,  
 Toast.***LENGTH\_LONG***).show();  
 }  
 **break**;  
 **case** R.id.***Mylocbutton***:  
 updateMap();  
 **break**;  
 }  
 }  
}

--- content\_findplace.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** >  
  
 <**fragment  
 android:id="@+id/map"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 class="com.google.android.gms.maps.SupportMapFragment"** />  
  
 <**Button  
 android:id="@+id/viewGymButton"  
 android:layout\_width="150dp"  
 android:layout\_height="61dp"  
 android:layout\_marginTop="35dp"  
 android:gravity="center"  
 android:text="@string/viewGym"  
 android:textSize="15sp"  
 android:layout\_gravity="left|top"  
 android:layout\_marginLeft="10dp"** />  
  
 <**Button  
 style="?android:attr/buttonStyleSmall"  
 android:layout\_width="150dp"  
 android:layout\_height="61dp"  
 android:text="My location"  
 android:id="@+id/Mylocbutton"  
 android:layout\_gravity="right|top"  
 android:layout\_marginTop="35dp"  
 android:layout\_marginRight="10dp"  
 android:textSize="15dp"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/locationeditText"  
 android:layout\_gravity="center\_horizontal|top"  
 android:layout\_marginTop="10dp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginRight="10dp"  
 android:background="#d9d9d9"** />  
  
</**FrameLayout**>

--- SettingsActivity.java ---

**package** com.example.user.myfitness;  
  
**import** android.app.Activity;  
**import** android.os.Bundle;  
**import** android.preference.PreferenceActivity;  
  
**public class** SettingsActivity **extends** PreferenceActivity {  
  
 @SuppressWarnings(**"deprecation"**)  
 @Override  
 **public void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 addPreferencesFromResource(R.xml.***preferences***);  
 }  
}

--- SaveActive.java ---

**package** com.example.user.myfitness;  
  
**import** android.app.ListActivity;  
**import** android.os.Bundle;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.Snackbar;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.View;  
**import** android.view.Menu;  
**import** android.view.MenuItem;  
**import** android.app.ListActivity;  
**import** android.content.Intent;  
**import** android.database.Cursor;  
**import** android.os.AsyncTask;  
**import** android.view.MenuInflater;  
**import** android.widget.AdapterView;  
**import** android.widget.AdapterView.OnItemClickListener;  
**import** android.widget.CursorAdapter;  
**import** android.widget.ListView;  
**import** android.widget.SimpleCursorAdapter;  
  
  
**public class** SaveActive **extends** ListActivity {  
  
 **public static final** String ***ROW\_ID*** = **"row\_id"**; *// Intent extra key* **private** ListView **TargetListView**; *// the ListActivity's ListView* **private** CursorAdapter **contactAdapter**; *// adapter for ListView  
 //TS: Adapter that exposes data from a Cursor to a ListView widget.  
 //The Cursor must include a column named "\_id" or this class will not work  
  
 // called when the activity is first created* @SuppressWarnings(**"deprecation"**)  
 @Override  
 **public void** onCreate(Bundle savedInstanceState)  
 {  
 **super**.onCreate(savedInstanceState); *// call super's onCreate  
  
 //TS: 1. create list view and set it event handler* **TargetListView** = getListView(); *// Get the activity's list view widget* **TargetListView**.setOnItemClickListener(**viewContactListener**);  
  
 *//TS: 2. create a cursor for the list view  
 // map each contact's name to a TextView in the ListView layout  
 //String[] from = new String[] { "name"};  
 //int[] to = new int[] { R.id.contactTextView, R.id.emailTextView };//from contact\_list\_item.xml* String[] from = **new** String[] { **"exercise"**};  
 **int**[] to = **new int**[] {R.id.***exerciseTextView***};*//from contact\_list\_item.xml* **contactAdapter** = **new** SimpleCursorAdapter(  
 SaveActive.**this**, R.layout.***content\_save\_active***, **null**, from, to);  
  
 *//TS: 3. link the cursor to the list view* setListAdapter(**contactAdapter**); *// set contactView's adapter* } *// end method onCreate* @Override  
 **protected void** onResume()  
 {  
 **super**.onResume(); *// call super's onResume method  
  
 // create new GetContactsTask and execute it* **new** GetContactsTask().execute((Object[]) **null**); *//TS: this does not work in OnCreate* } *// end method onResume* @Override  
 **protected void** onStop()  
 {  
 Cursor cursor = **contactAdapter**.getCursor(); *// get current Cursor* **if** (cursor != **null**)  
 cursor.deactivate(); *// deactivate it* **contactAdapter**.changeCursor(**null**); *// adapted now has no Cursor* **super**.onStop();  
 } *// end method onStop  
  
 // performs database query outside GUI thread* **private class** GetContactsTask **extends** AsyncTask<Object, Object, Cursor>  
 {  
 DatabaseConnector **databaseConnector** =  
 **new** DatabaseConnector(SaveActive.**this**);  
  
 *// perform the database access* @Override  
 **protected** Cursor doInBackground(Object... params)  
 {  
 **databaseConnector**.open();  
  
 *// get a cursor containing call contacts* **return databaseConnector**.getAllContacts();  
 } *// end method doInBackground  
  
 // use the Cursor returned from the doInBackground method* @Override  
 **protected void** onPostExecute(Cursor result)  
 {  
 **contactAdapter**.changeCursor(result); *// set the adapter's Cursor* **databaseConnector**.close();  
 } *// end method onPostExecute* } *// end class GetContactsTask  
  
 // create the Activity's menu from a menu resource XML file* @Override  
 **public boolean** onCreateOptionsMenu(Menu menu)  
 {  
 **super**.onCreateOptionsMenu(menu);  
 MenuInflater inflater = getMenuInflater();  
 inflater.inflate(R.menu.***menu\_main***, menu);  
 **return true**;  
 } *// end method onCreateOptionsMenu  
  
 // handle choice from options menu* @Override  
 **public boolean** onOptionsItemSelected(MenuItem item)  
 {  
 **if** (item.getItemId() == R.id.***addTargetItem***) {  
 *// create a new Intent to launch the AddEditContact Activity* Intent addNewContact =  
 **new** Intent(SaveActive.**this**, AddLocationActivity.**class**);  
 startActivity(addNewContact); *// start the AddEditContact Activity* }  
 **return super**.onOptionsItemSelected(item); *// call super's method* } *// end method onOptionsItemSelected  
  
 // event listener that responds to the user touching a contact's name  
 // in the ListView* OnItemClickListener **viewContactListener** = **new** OnItemClickListener()  
 {  
 @Override  
 **public void** onItemClick(AdapterView<?> arg0, View arg1, **int** arg2,  
 **long** arg3)  
 {  
 *// create an Intent to launch the ViewContact Activity* Intent viewContact =  
 **new** Intent(SaveActive.**this**, ViewTarget.**class**);  
  
 *// pass the selected contact's row ID as an extra with the Intent* viewContact.putExtra(***ROW\_ID***, arg3);  
 startActivity(viewContact); *// start the ViewContact Activity* } *// end method onItemClick* }; *// end viewContactListener*} *// end class AddressBook  
  
  
/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
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 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/*

--- content\_save\_active.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:id="@+id/LinearLayout2"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="wrap\_content"  
 android:orientation="horizontal"** >  
  
 <**TextView  
 android:id="@+id/exerciseTextView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:textSize="28dip"  
 android:gravity="center"  
 android:textColor="#b3b3b3"** />  
  
</**LinearLayout**>

--- DatabaseConnector.java ---

**package** com.example.user.myfitness;  
  
*/\*\*  
 \* Created by user on 1/2/2016.  
 \*/***import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.SQLException;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
**import** android.database.sqlite.SQLiteDatabase.CursorFactory;  
  
**public class** DatabaseConnector  
{  
 *// database name* **private static final** String ***DATABASE\_NAME*** = **"UserTargets"**;  
 **private** SQLiteDatabase **database**; *// TS: to run SQL commands* **private** DatabaseOpenHelper **databaseOpenHelper**; *// TS: create or open the database  
  
 // public constructor for DatabaseConnector* **public** DatabaseConnector(Context context)  
 {  
 *// create a new DatabaseOpenHelper* **databaseOpenHelper** =  
 **new** DatabaseOpenHelper(context, ***DATABASE\_NAME***, **null**, 1);  
 } *// end DatabaseConnector constructor  
  
 // open the database connection* **public void** open() **throws** SQLException  
 {  
 *// create or open a database for reading/writing* **database** = **databaseOpenHelper**.getWritableDatabase();*//TS: at the first call, onCreate is called* } *// end method open  
  
 // close the database connection* **public void** close()  
 {  
 **if** (**database** != **null**)  
 **database**.close(); *// close the database connection* } *// end method close  
  
 // inserts a new contact in the database* **public void** insertContact(String exercise, Integer sets, Integer reps)  
 {  
 ContentValues newContact = **new** ContentValues();  
 newContact.put(**"exercise"**, exercise);  
 newContact.put(**"sets"**, sets);  
 newContact.put(**"reps"**, reps);  
  
 open(); *// open the database* **database**.insert(**"targets"**, **null**, newContact);  
 close(); *// close the database* } *// end method insertContact  
  
 // inserts a new contact in the database  
 /\* public void updateContact(Double latitude, Double longitude, Float accuracy,  
 Long time)  
 {  
 ContentValues editContact = new ContentValues();  
 editContact.put("latitude", latitude);  
 editContact.put("longitude", longitude);  
 editContact.put("accuracy", accuracy);  
 editContact.put("time", time);  
  
 open(); // open the database  
 database.update("targets", editContact, "\_id=" + id, null);  
 close(); // close the database  
 } // end method updateContact8\*/  
  
 // return a Cursor with all contact information in the database* **public** Cursor getAllContacts()  
 {  
 *//return database.query("contacts", new String[] {"\_id", "name"},  
 // null, null, null, null, "name"/\*order by\*/);* **return database**.query(**"targets"**, **new** String[] {**"\_id"**, **"exercise"**, **"sets"**, **"reps"**},  
 **null**, **null**, **null**, **null**, **"\_id"***/\*order by\*/*);  
 } *// end method getAllContacts  
  
 // get a Cursor containing all information about the contact specified  
 // by the given id* **public** Cursor getOneContact(**long** id)  
 {  
 *//return database.query(  
 // "contacts", null/\*get all fields\*/, "\_id=" + id /\*selection\*/, null, null, null, null);  
 //TS: OR* **return database**.rawQuery(**"SELECT \* FROM targets WHERE \_id = "** + id , **null**);  
  
 } *// end method getOnContact  
  
 // delete the contact specified by the given String name* **public void** deleteContact(**long** id)  
 {  
 open();  
 **database**.delete(**"targets"**, **"\_id="** + id, **null**);  
 */\*OR\*/ //database.delete("contacts", "\_id = ?", new String[] {String.valueOf(id)});* close();  
 }  
  
 **private class** DatabaseOpenHelper **extends** SQLiteOpenHelper  
 {  
 *// public constructor* **public** DatabaseOpenHelper(Context context, String name,  
 CursorFactory factory, **int** version)  
 {  
 **super**(context, name, factory, version);  
 } *// end DatabaseOpenHelper constructor  
  
 // creates the contacts table when the database is created  
 // TS: this is called from open()->getWritableDatabase(). Only if the database does not exist* @Override  
 **public void** onCreate(SQLiteDatabase db)  
 {  
 *// query to create a new table named contacts* String createQuery = **"CREATE TABLE targets"** +  
 **"(\_id integer primary key autoincrement,"** +  
 **"exercise TEXT, sets INTEGER,"** +  
 **"reps INTEGER);"**;  
  
 db.execSQL(createQuery); *// execute the query* } *// end method onCreate* @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion,  
 **int** newVersion)  
 {  
 } *// end method onUpgrade* } *// end class DatabaseOpenHelper*} *// end class DatabaseConnector  
  
  
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--- AddLocationActivity.java ---

**package** com.example.user.myfitness;  
  
**import** android.content.DialogInterface;  
**import** android.os.AsyncTask;  
**import** android.os.Bundle;  
**import** android.support.design.widget.FloatingActionButton;  
**import** android.support.design.widget.Snackbar;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.Toolbar;  
**import** android.view.View;  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
**import** com.google.android.gms.common.ConnectionResult;  
**import** com.google.android.gms.common.GooglePlayServicesClient;  
**import** com.google.android.gms.location.LocationClient;  
**import** com.google.android.gms.location.LocationListener;  
**import** com.google.android.gms.location.LocationRequest;  
  
**import** android.app.Activity;  
**import** android.content.Intent;  
**import** android.location.Location;  
**import** android.location.LocationManager;  
**import** android.media.AudioManager;  
**import** android.media.ToneGenerator;  
**import** android.provider.Settings;  
**import** android.view.Window;  
**import** android.widget.Button;  
**import** android.widget.CompoundButton;  
**import** android.widget.CompoundButton.OnCheckedChangeListener;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
**import** android.widget.ToggleButton;  
  
**public class** AddLocationActivity **extends** Activity{  
  
 **public static final int *UPDATE\_INTERVAL*** = 5000; *// 5 seconds* **public static final int *FASTEST\_UPDATE\_INTERVAL*** = 2000; *// 2 seconds  
  
  
 //--for a beep sound* **final** ToneGenerator **tg** = **new** ToneGenerator(AudioManager.***STREAM\_NOTIFICATION***, 100);  
 *//~TS* **private** EditText **exercise**;  
 **private** EditText **sets**;  
 **private** EditText **reps**;  
 **private** Button **Add**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 **this**.requestWindowFeature(Window.***FEATURE\_NO\_TITLE***);  
 setContentView(R.layout.***activity\_add\_location***);  
 *// get references to widgets* **exercise** = (EditText) findViewById(R.id.exerciseeditText);  
 sets = (EditText) findViewById(R.id.setseditText);  
 reps = (EditText) findViewById(R.id.repseditText);  
 Add = (Button) findViewById(R.id.button\_Add);  
  
 *// register listener for trackingToggleButton* Add.setOnClickListener(saveRecordButtonClicked);  
 }  
  
  
 View.OnClickListener saveRecordButtonClicked = **new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 AsyncTask<Object, Object, Object> saveContactTask =  
 **new** AsyncTask<Object, Object, Object>() {  
 @Override  
 **protected** Object doInBackground(Object... params) {  
 saveTarget(); *// save contact to the database* **return null**;  
 } *// end method doInBackground* @Override  
 **protected void** onPostExecute(Object result) {  
 } *// end method onPostExecute* }; *// end AsyncTask  
  
 // save the contact to the database using a separate thread* saveContactTask.execute((Object[]) **null**);  
 }  
 };  
  
 **private void** saveTarget() {  
 *// get DatabaseConnector to interact with the SQLite database* DatabaseConnector databaseConnector = **new** DatabaseConnector(**this**);  
 databaseConnector.insertContact(exercise.getText().toString(), Integer.parseInt(sets.getText().toString()), Integer.parseInt(reps.getText().toString()));  
 } *// end class saveContact*}

--- content\_add\_location.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter exercise name below"  
 android:id="@+id/textView"  
 android:layout\_gravity="center\_horizontal"  
 android:textStyle="bold"  
 android:textSize="18dp"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/exerciseeditText"  
 android:layout\_gravity="center\_horizontal"** />  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter number of sets below"  
 android:id="@+id/textView2"  
 android:layout\_gravity="center\_horizontal"  
 android:textStyle="bold"  
 android:textSize="18dp"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="number"  
 android:ems="10"  
 android:id="@+id/setseditText"  
 android:layout\_gravity="center\_horizontal"** />  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Enter number of reps below"  
 android:id="@+id/textView3"  
 android:layout\_gravity="center\_horizontal"  
 android:textStyle="bold"  
 android:textSize="18dp"** />  
  
 <**EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:inputType="number"  
 android:ems="10"  
 android:id="@+id/repseditText"  
 android:layout\_gravity="center\_horizontal"** />  
  
 <**Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Add"  
 android:id="@+id/button\_Add"  
 android:layout\_gravity="center\_horizontal"** />  
  
</**LinearLayout**>

--- ViewTarget.java ---

**package** com.example.user.myfitness;  
  
**import** android.app.Activity;  
**import** android.app.AlertDialog;  
**import** android.content.DialogInterface;  
**import** android.content.Intent;  
**import** android.database.Cursor;  
**import** android.net.Uri;  
**import** android.os.AsyncTask;  
**import** android.os.Bundle;  
**import** android.view.Menu;  
**import** android.view.MenuInflater;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.view.Window;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
  
**public class** ViewTarget **extends** Activity **implements** View.OnClickListener  
{  
 **private long rowID**; *// selected contact's name* **private** TextView **ExerciseTextView**; *// displays contact's name* **private** TextView **SetsTextView**; *// displays contact's phone* **private** TextView **RepsTextView**; *// displays contact's email* **private** TextView **LinkTextView**; *// displays contact's street* **private** Button **delete**;  
 String **linkurl**;  
  
 *// called when the activity is first created* @Override  
 **public void** onCreate(Bundle savedInstanceState)  
 {  
 **super**.onCreate(savedInstanceState);  
 **this**.requestWindowFeature(Window.***FEATURE\_NO\_TITLE***);  
 setContentView(R.layout.activity\_view\_target);  
  
 *// get the EditTexts* **ExerciseTextView** = (TextView) findViewById(R.id.***ExerciseTextView***);  
 **SetsTextView** = (TextView) findViewById(R.id.***SetsTextView***);  
 **RepsTextView** = (TextView) findViewById(R.id.***RepsTextView***);  
 **LinkTextView** = (TextView) findViewById(R.id.***LinkTextView***);  
 **delete** = (Button) findViewById(R.id.***button\_delete***);  
 **delete**.setOnClickListener(**this**);  
 **LinkTextView**.setOnClickListener(**this**);  
 *// get the selected contact's row ID* Bundle extras = getIntent().getExtras();  
 **rowID** = extras.getLong(SaveActive.***ROW\_ID***);  
 } *// end method onCreate  
  
 // called when the activity is first created* @Override  
 **protected void** onResume()  
 {  
 **super**.onResume();  
  
 *// create new LoadContactTask and execute it* **new** LoadContactTask().execute(**rowID**);  
 } *// end method onResume* @Override  
 **public void** onClick(View v) {  
 **switch** (v.getId()) {  
 **case** R.id.***button\_delete***:  
 deleteContact();  
 **break**;  
 **case** R.id.***LinkTextView***:  
 Intent intent = getIntent();  
  
 *// get the Uri for the link* String link = **linkurl**;  
 Uri viewUri = Uri.*parse*(link);  
  
 *// create the intent and start it* Intent viewIntent = **new** Intent(Intent.***ACTION\_VIEW***, viewUri);  
 startActivity(viewIntent);  
 **break**;  
 }  
 }  
  
 *// performs database query outside GUI thread* **private class** LoadContactTask **extends** AsyncTask<Long, Object, Cursor>  
 {  
 DatabaseConnector **databaseConnector** =  
 **new** DatabaseConnector(ViewTarget.**this**);  
  
 *// perform the database access* @Override  
 **protected** Cursor doInBackground(Long... params)  
 {  
 **databaseConnector**.open();  
  
 *// get a cursor containing all data on given entry* **return databaseConnector**.getOneContact(params[0]);  
 } *// end method doInBackground  
  
 // use the Cursor returned from the doInBackground method* @Override  
 **protected void** onPostExecute(Cursor result)  
 {  
 **super**.onPostExecute(result);  
  
 result.moveToFirst(); *// move to the first item  
  
 // get the column index for each data item* **int** ExeIndex = result.getColumnIndex(**"exercise"**);  
 **int** SetIndex = result.getColumnIndex(**"sets"**);  
 **int** RepIndex = result.getColumnIndex(**"reps"**);  
  
 String urlstr = result.getString(ExeIndex);  
  
 String[] arr = urlstr.split(**" "**);  
 String conn = **"http://bodybuilding.com/search/#/?q="**;  
 String bet = **"%20"**;  
 String nam = **""**;  
 String na = **""**;  
 **for** (String ss : arr)  
 {  
 ss += bet;  
 nam = ss;  
 na +=ss;  
 }  
 **linkurl** = conn + na;  
  
  
 *// fill TextViews with the retrieved data* **ExerciseTextView**.setText(result.getString(ExeIndex));  
 **SetsTextView**.setText(result.getString(SetIndex));  
 RepsTextView.setText(result.getString(RepIndex));  
 LinkTextView.setText(linkurl);  
  
 result.close(); *// close the result cursor* databaseConnector.close(); *// close database connection* } *// end method onPostExecute* } *// end class LoadContactTask  
  
 // create the Activity's menu from a menu resource XML file* @Override  
 **public boolean** onCreateOptionsMenu(Menu menu)  
 {  
 **super**.onCreateOptionsMenu(menu);  
 MenuInflater inflater = getMenuInflater();  
 **return true**;  
 } *// end method onCreateOptionsMenu  
  
 // delete a contact* **private void** deleteContact()  
 {  
 *// create a new AlertDialog Builder* AlertDialog.Builder builder =  
 **new** AlertDialog.Builder(ViewTarget.**this**);  
  
 builder.setTitle(R.string.confirmTitle); *// title bar string* builder.setMessage(R.string.confirmMessage); *// message to display  
  
 // provide an OK button that simply dismisses the dialog* builder.setPositiveButton(R.string.button\_delete,  
 **new** DialogInterface.OnClickListener()  
 {  
 @Override  
 **public void** onClick(DialogInterface dialog, **int** button)  
 {  
 **final** DatabaseConnector databaseConnector =  
 **new** DatabaseConnector(ViewTarget.**this**);  
  
 *// create an AsyncTask that deletes the contact in another  
 // thread, then calls finish after the deletion* AsyncTask<Long, Object, Object> deleteTask =  
 **new** AsyncTask<Long, Object, Object>()  
 {  
 @Override  
 **protected** Object doInBackground(Long... params)  
 {  
 *//databaseConnector.open(); //done in the deleteContact() function* databaseConnector.deleteContact(params[0]);  
 *//databaseConnector.close(); //done in the deleteContact() function* **return null**;  
 } *// end method doInBackground* @Override  
 **protected void** onPostExecute(Object result)  
 {  
 finish(); *// return to the AddressBook Activity* } *// end method onPostExecute* }; *// end new AsyncTask  
  
 // execute the AsyncTask to delete contact at rowID* deleteTask.execute(**new** Long[] { rowID });  
 } *// end method onClick* } *// end anonymous inner class* ); *// end call to method setPositiveButton* builder.setNegativeButton(R.string.button\_cancel, **null**);  
 builder.show(); *// display the Dialog* } *// end method deleteContact*} *// end class ViewContact  
  
  
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--- content\_view\_target.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**ScrollView xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content" android:layout\_weight="1"**>  
 <**TableLayout android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:stretchColumns="1" android:layout\_margin="5dp"**>  
 <**TableRow android:id="@+id/nameTableRow"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
 <**TextView android:id="@+id/exerciseLabelTextView"  
 android:text="@string/label\_exercise"  
 android:textStyle="bold"  
 android:textSize="18dp"  
 android:layout\_weight="0.3"  
 android:layout\_width="0dp"**></**TextView**>  
 <**TextView android:id="@+id/ExerciseTextView"  
 android:textSize="18dp"  
 android:layout\_weight="0.7"  
 android:layout\_width="0dp"  
 android:gravity="center"**></**TextView**>  
 </**TableRow**>  
  
 <**TableRow android:id="@+id/phoneTableRow"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
 <**TextView android:id="@+id/setsLabelTextView"  
 android:text="@string/label\_sets"  
 android:textStyle="bold"  
 android:textSize="18dp"  
 android:layout\_weight="0.3"  
 android:layout\_width="0dp"**></**TextView**>  
 <**TextView android:id="@+id/SetsTextView"  
 android:textSize="18dp"  
 android:layout\_weight="0.7"  
 android:layout\_width="0dp"  
 android:gravity="center"**></**TextView**>  
 </**TableRow**>  
  
 <**TableRow android:id="@+id/emailTableRow"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
 <**TextView android:id="@+id/repsLabelTextView"  
 android:text="@string/label\_reps"  
 android:textStyle="bold"  
 android:textSize="18dp"  
 android:layout\_width="0dp"  
 android:layout\_weight="0.3"**></**TextView**>  
 <**TextView android:id="@+id/RepsTextView"  
 android:textSize="18dp"  
 android:layout\_width="0dp"  
 android:layout\_weight="0.7"  
 android:gravity="center"**></**TextView**>  
 </**TableRow**>  
  
 <**TableRow android:id="@+id/GuideTableRow"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
 <**TextView android:id="@+id/GuideTextView"  
 android:text="@string/label\_guide"  
 android:textStyle="bold"  
 android:textSize="14dp"  
 android:layout\_weight="1"**></**TextView**>  
 </**TableRow**>  
  
 <**TableRow android:id="@+id/streetTableRow"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"**>  
 <**TextView android:id="@+id/linkLabelTextView"  
 android:text="@string/label\_link"  
 android:textStyle="bold"  
 android:textSize="18dp"  
 android:layout\_width="0dp"  
 android:layout\_weight="0.3"**></**TextView**>  
 <**TextView android:id="@+id/LinkTextView"  
 android:textSize="18dp"  
 android:layout\_width="0dp"  
 android:layout\_weight="0.7"**></**TextView**>  
 </**TableRow**>  
  
 <**TableRow  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**Button  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:text="Delete"  
 android:id="@+id/button\_delete"  
 android:layout\_weight="1"** />  
 </**TableRow**>  
 </**TableLayout**>  
</**ScrollView**>

--- AndroidManifest.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.user.myfitness"**>  
  
 <**uses-sdk  
 android:minSdkVersion="8"  
 android:targetSdkVersion="17"** />  
 android:versionCode="1"  
 android:versionName="1.0" >  
  
 *<!-- set up MAPS\_RECEIVE permission -->* <**permission  
 android:name="com.murach.runtracker.permission.MAPS\_RECEIVE"  
 android:protectionLevel="signature"** />  
  
 <**uses-permission android:name="com.murach.runtracker.permission.MAPS\_RECEIVE"** />  
  
 *<!-- set other permissions -->* <**uses-permission android:name="android.permission.ACCESS\_COARSE\_LOCATION"** />  
 <**uses-permission android:name="android.permission.INTERNET"** />  
 <**uses-permission android:name="android.permission.ACCESS\_NETWORK\_STATE"** />  
 <**uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE"** />  
 <**uses-permission android:name="com.google.android.providers.gsf.permission.READ\_GSERVICES"** />  
 <**uses-permission android:name="android.permission.ACCESS\_FINE\_LOCATION"** />  
  
 *<!-- Maps API version 2 requires OpenGL ES version 2 -->* <**uses-feature  
 android:glEsVersion="0x00020000"  
 android:required="true"** />  
  
 <**android:uses-permission android:name="android.permission.READ\_PHONE\_STATE"** />  
 <**android:uses-permission android:name="android.permission.READ\_EXTERNAL\_STORAGE"** />  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme"**>  
 <**meta-data  
 android:name="com.google.android.gms.version"  
 android:value="@integer/google\_play\_services\_version"** />  
 <**meta-data  
 android:name="com.google.android.maps.v2.API\_KEY"  
 android:value="AIzaSyCvrUrx5BdEg2B5AuNGAVZa8yWgipx8Znk"** />  
  
 <**activity  
 android:name=".MainActivity"  
 android:label="@string/app\_name"  
 android:theme="@style/AppTheme.NoActionBar"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 <**activity  
 android:name=".SettingsActivity"  
 android:label="settings"** />  
 <**activity  
 android:name=".Mydiet"  
 android:label="@string/title\_activity\_mydiet"  
 android:theme="@style/AppTheme.NoActionBar"** />  
 <**activity  
 android:name=".Findplace"  
 android:label="@string/title\_activity\_findplace"  
 android:theme="@style/AppTheme.NoActionBar"** />  
 <**activity  
 android:name=".SaveActive"  
 android:label="@string/title\_activity\_save\_active"  
 android:theme="@style/AppTheme.NoActionBar"** />  
 <**activity  
 android:name=".AddLocationActivity"  
 android:label="@string/title\_activity\_add\_location"  
 android:theme="@style/AppTheme.NoActionBar"** />  
 <**activity  
 android:name=".ViewTarget"  
 android:label="@string/title\_activity\_view\_target"  
 android:theme="@style/AppTheme.NoActionBar"**></**activity**>  
 </**application**>  
  
</**manifest**>

--- menu\_main.xml ---

<**menu 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"  
 tools:context="com.example.user.myfitness.MainActivity"**>  
 <**item  
 android:id="@+id/action\_settings"  
 android:orderInCategory="100"  
 android:title="@string/action\_settings"  
 android:textColor="#fff"  
 app:showAsAction="never"** />  
 <**item android:id="@+id/addTargetItem"  
 android:title="@string/menuitem\_add\_target"  
 android:icon="@android:drawable/ic\_menu\_add"  
 android:titleCondensed="@string/menuitem\_add\_target"  
 app:showAsAction="ifRoom"  
 android:textColor="#fff"  
 android:alphabeticShortcut="e"**></**item**>  
</**menu**>

--- strings.xml ---

<**resources**>  
 <**string name="app\_name"**>MyFitness</**string**>  
 <**string name="action\_settings"**>Settings</**string**>  
 <**string name="button1\_title"**>Folder1</**string**>  
 <**string name="button1\_summary"**>Allow user to rename first button to imitate a desktop folder.</**string**>  
 <**string name="title\_activity\_mydiet"**>Mydiet</**string**>  
 <**string-array name="gender"**>  
 <**item**>Male</**item**>  
 <**item**>Female</**item**>  
 </**string-array**>  
 <**string-array name="pbf"**>  
 <**item**>Men(10-14) Women(14-18)</**item**>  
 <**item**>Men(14-20) Women(18-28)</**item**>  
 <**item**>Men(20-28) Women(28-38)</**item**>  
 <**item**>Men(28+) Women(38+)</**item**>  
 </**string-array**>  
 <**string-array name="activityl"**>  
 <**item**>Very Light</**item**>  
 <**item**>Light</**item**>  
 <**item**>Moderate</**item**>  
 <**item**>Heavy</**item**>  
 <**item**>Very Heavy</**item**>  
 </**string-array**>  
 <**string-array name="bodyc"**>  
 <**item**>Sedentary Adult</**item**>  
 <**item**>Adult Recreational Exerciser</**item**>  
 <**item**>Adult Competitive Athlete</**item**>  
 <**item**>Adult Building Muscle Mass</**item**>  
 <**item**>Dieting Athlete</**item**>  
 <**item**>Growing Teenage Athlete</**item**>  
 </**string-array**>  
  
 *<!--* ***TODO: Remove or change this placeholder text*** *-->* <**string name="hello\_blank\_fragment"**>Hello blank fragment</**string**>  
 <**string name="title\_activity\_findplace"**>Findplace</**string**>  
 <**string name="viewGym"**>Go</**string**>  
 <**string name="title\_activity\_save\_active"**>SaveActive</**string**>  
 <**string name="menuitem\_add\_target"**>Add Item</**string**>  
 <**string name="title\_activity\_add\_location"**>AddLocationActivity</**string**>  
 <**string name="title\_activity\_view\_target"**>ViewTarget</**string**>  
 <**string name="label\_exercise"**>Exercise:</**string**>  
 <**string name="label\_reps"**>reps:</**string**>  
 <**string name="label\_sets"**>sets:</**string**>  
 <**string name="label\_link"**>link:</**string**>  
 <**string name="confirmMessage"**>  
 This will permanently delete the contact</**string**>  
 <**string name="button\_cancel"**>Cancel</**string**>  
 <**string name="button\_delete"**>Delete</**string**>  
 <**string name="confirmTitle"**>Are You Sure?</**string**>  
 <**string name="label\_guide"**>Press the link below to view information about the exercise</**string**>  
</**resources**>

--- preferences.xml ---

*<?***xml version="1.0" encoding="utf-8"***?>*<**PreferenceScreen xmlns:android="http://schemas.android.com/apk/res/android"**>  
 <**EditTextPreference  
 android:key="pref\_button1"  
 android:title="@string/button1\_title"  
 android:summary="@string/button1\_summary"** />  
</**PreferenceScreen**>

--- build.gradle ---

apply plugin: **'com.android.application'**android {  
 compileSdkVersion 23  
 buildToolsVersion **"23.0.2"** defaultConfig {  
 applicationId **"com.example.user.myfitness"** minSdkVersion 15  
 targetSdkVersion 23  
 versionCode 1  
 versionName **"1.0"** }  
 buildTypes {  
 release {  
 minifyEnabled **false** proguardFiles getDefaultProguardFile(**'proguard-android.txt'**), **'proguard-rules.pro'** }  
 }  
}  
  
dependencies {  
 compile fileTree(dir: **'libs'**, include: [**'\*.jar'**])  
 testCompile **'junit:junit:4.12'** compile **'com.android.support:appcompat-v7:23.1.1'** compile **'com.android.support:design:23.1.1'** compile **'com.android.support:support-v4:23.1.1'** compile **'com.google.android.gms:play-services:6.1+'**}

Documentaion:

The app has three buttons:

1. First Button opens a databse where you can store a list of exercises you would like to do in the gym. If you enter any exercise name, the app will automatically create a link for you so that you can view the specific exercise on the internet and you can see a video of how you can do that exercise. You can rename the first button to anything you want through preferences. Ex: chest-triceps, arms day, all exercises, etc …
2. Second buttn opens diet calculator based on real calculations. By entering you age and by selecting other criteria, the app displays your BMR, Daily calorie Expenditure, Protein grams, Protein calories, Fat grams, Fat calories, Carbs grams, Carbs calories that you need per day. The results are rounded so that you can get a neat view.
3. Third button opens a Map activity where you can view any location of interest you would like using Geocoder. For instance you can view any Gym you would like that is next to you. You can also go back to your location once you are done. Hitting the go button when searching for a location doesn’t remove old markers, this lets you have a clear idea of where you stand and where the location you are interested in stands. Hitting the MyLocation button removes old markers so that you can only view your location.

Screenshots:



