**[Homework#16](https://bb-csuohio.blackboard.com/webapps/assignment/uploadAssignment?content_id=_6362384_1&course_id=_168060_1&group_id=&mode=view)**

Revise the sensor listing app so that the sensor values are displayed in a chart. You may use any charting library. The chart should display the most recent 30-second of the data collected for each sensor.

Solution:

Code for viewing the list of sensors:

<ListView  
 android:id="@+id/session\_list"  
 android:layout\_width="fill\_parent"  
 android:layout\_height="0dip"  
 android:layout\_weight="1"  
 android:cacheColorHint="@android:color/transparent"  
 android:dividerHeight=".5dip" />

Once clicked on particular sensor, it will be redirected to that sensor’s capabilities, code for that is:

<TextView  
 android:id="@+id/sensorname"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="10dp"  
 android:text="Sensor Name"  
 android:textColor="@android:color/black"  
 android:textSize="18sp"  
 android:textStyle="bold" />

Code for sensor values to display in chart:

<TextView  
 android:id="@+id/time"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/timestamp"  
 android:layout\_marginLeft="10dp"  
 android:layout\_marginTop="5dp"  
 android:textColor="@android:color/black"  
 android:textSize="16sp" />  
  
<com.github.mikephil.charting.charts.LineChart  
 android:id="@+id/chart1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_below="@+id/sensorname"  
 />

A screen shot of a phone

Description automatically generated

A screen shot of a device

Description automatically generatedA screen shot of a cell phone

Description automatically generatedA screen shot of a phone

Description automatically generatedA cell phone with a white screen

Description automatically generated