

Android Test App Problem statement:

Write a native Android app that consumes acceleration/gyro data and draws a realtime graph which represents the user's movement and supports both portrait and landscape screen layouts.

The gauge represents the realtime accelerometer values with an option to represent cumulative movement since the app first started.

The needle of the gauge must be as realtime as possible and show immediate change in movement as well as accumulated total movement since the start of the application. This application should use the most efficient method possible to upload the captured data to a free account on <http://PubNub.com> which you can create with your own email address...

User interface: display a gauge with units of measure and an indicator. Think of a fuel gauge in a car with "empty" on the left side, "full" on the right and a needle which represents movement to rotate from empty to full ([http://www.4freephotos.com/Empty\\_fuel\\_gauge-limage-a9c0b89591c96a0aa610a186ccfe85d1.html#](http://www.4freephotos.com/Empty_fuel_gauge-limage-a9c0b89591c96a0aa610a186ccfe85d1.html#))

Note: You may only use the <http://pubnub.com> sdk as a 3rd party library.

The app should be delivered as a working project that we can load, and monitor the ram or battery performance in Android Studio. Please ensure it is free of any memory leaks and maintain 80+% unit test coverage.

Note: "The gauge represent the real-time accelerometer values with an option to represent cumulative movement since the app first started" meaning that we want to see speed of movement (real-time accelerometer in our terminology) and distance (cumulative movement since the app first started in our terminology).

Good Luck and Cheers,