CMPE-277: Smartphone Application

HW 4 - TH Sensor Driver Using Async Task

Submitted To

Prof. Chandrasekar Vuppalapati

Date of Submission

19th March 2017

Submitted By

Sih-Han Chen - 011498552

Learning Objective:

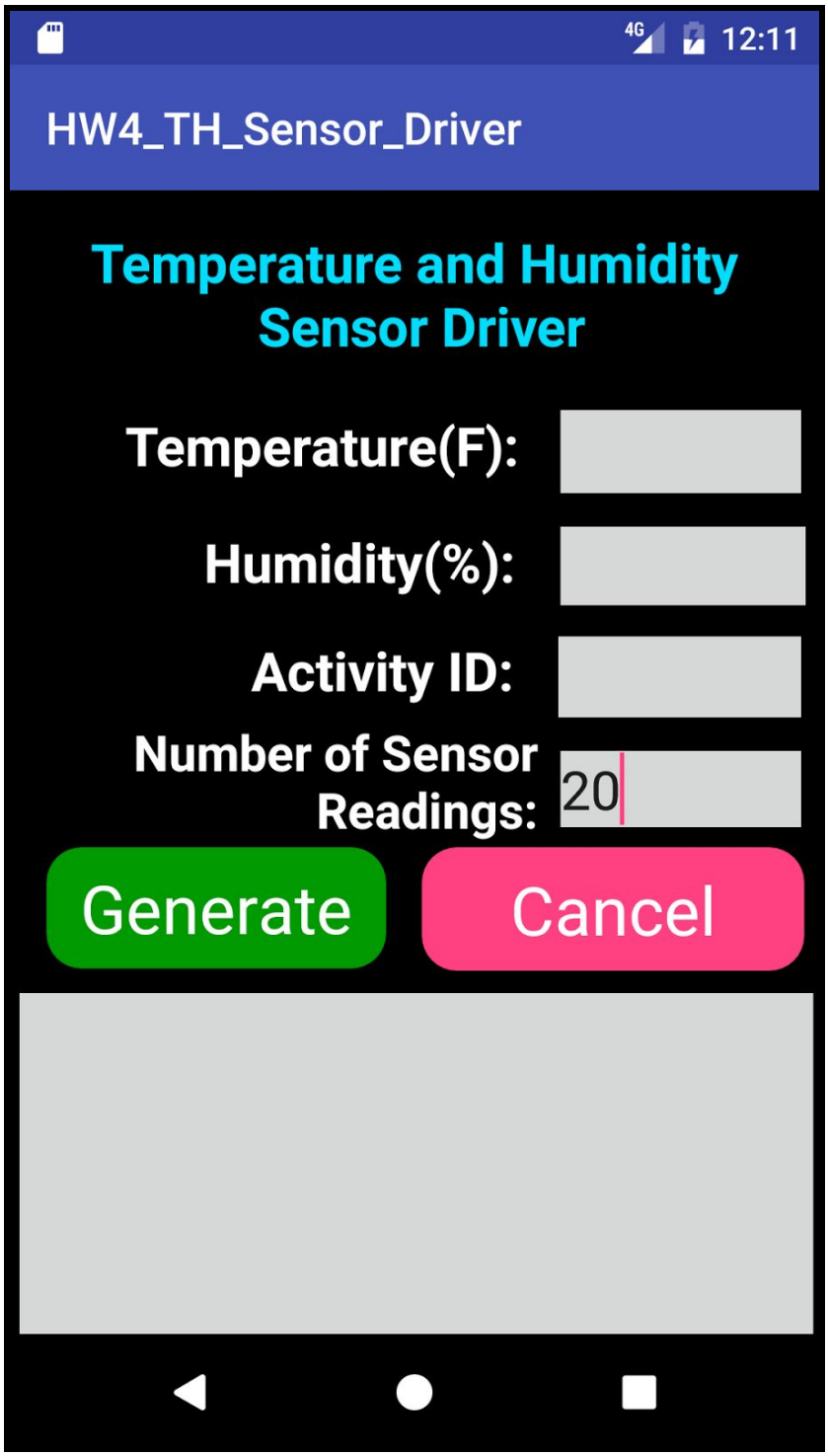
Using Async Task one can run tasks that take longer than five seconds in the context of UI. The objective of the assignment is to generate sensor readings in the UI Thread context and update UI for each reading.

GitHub:

https://github.com/stephen-sh-chen/CMPE277_Smartphone_App/tree/master/HW4_TH_Sensor_Driver

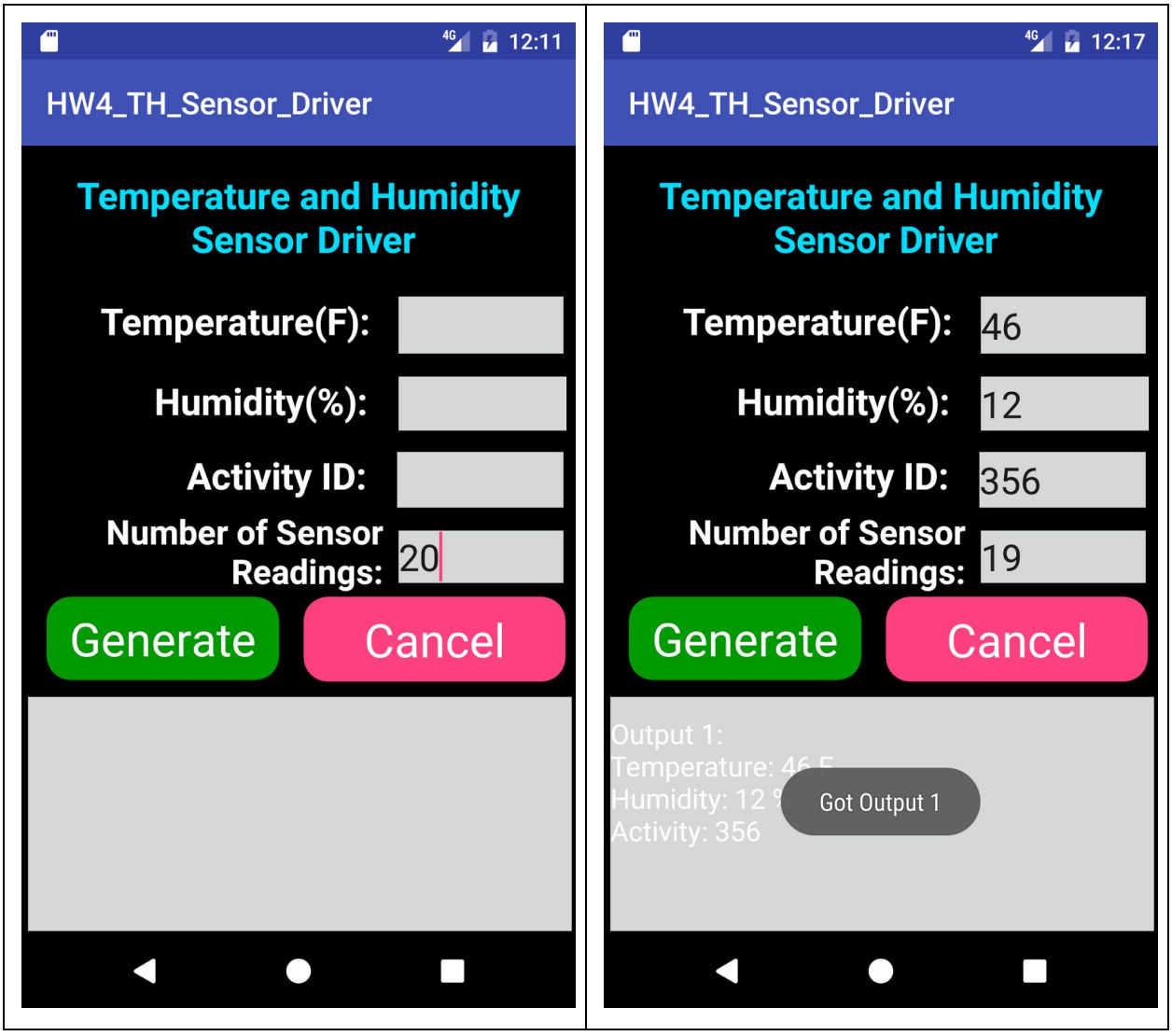
1. Temperature & Humidity Sensor Layout

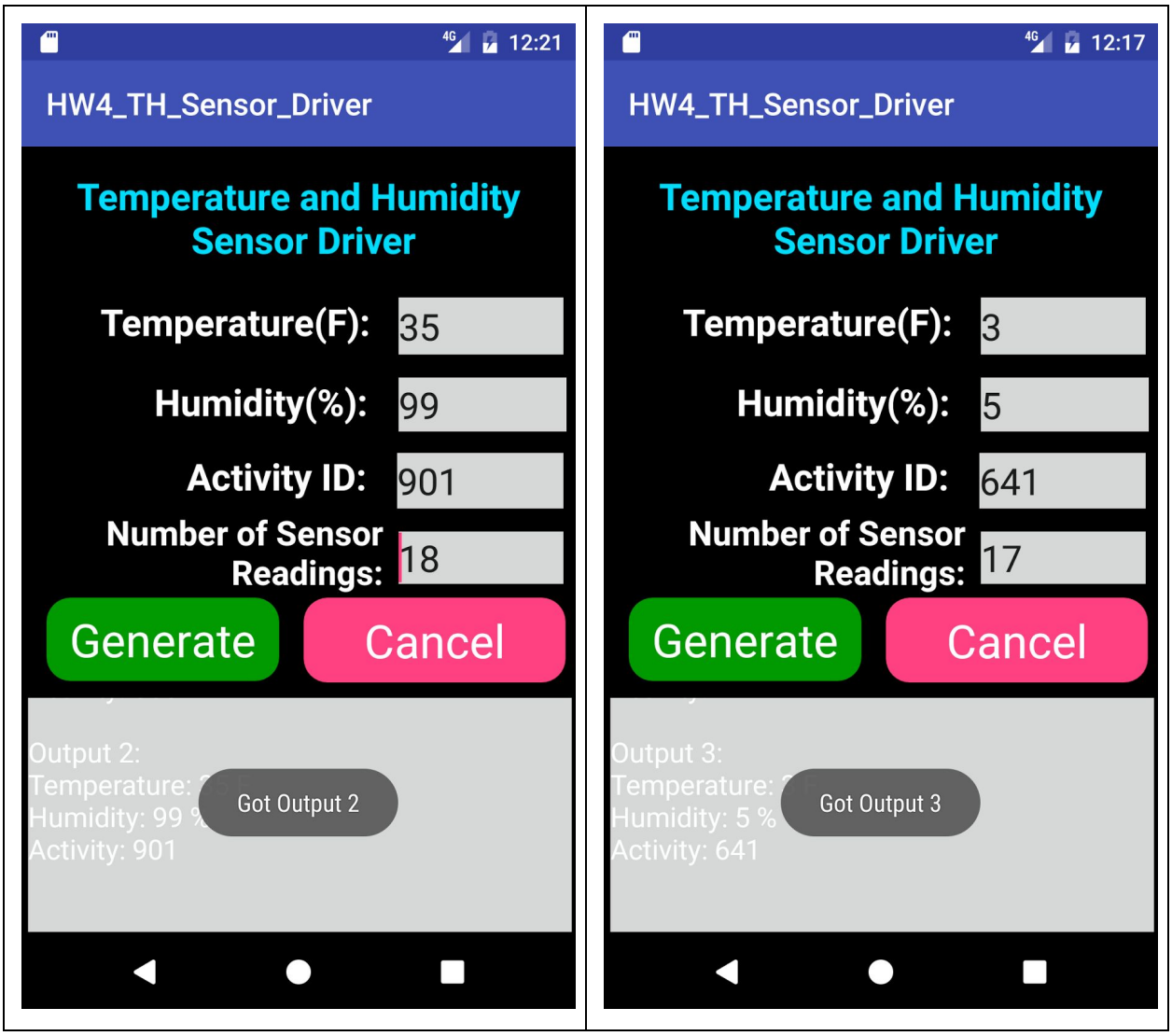
Once user launch the APP, the first thing is to enter a number in the “Number of Sensor Reading” field to indicate this APP how many simulation result to be generated.



2. Generate Data

For example, if we want this to generate 20 results, we enter 20 in the “Number of Sensor Reading” field and click enter the “Generate” button.




12:21
HW4_TH_Sensor_Driver
Temperature and Humidity Sensor Driver
Temperature(F): 35
Humidity(%): 99
Activity ID: 901
Number of Sensor Readings: 18
Generate
Cancel
Output 2:
Temperature:
Humidity: 99 %
Activity: 901
Got Output 2
12:17
HW4_TH_Sensor_Driver
Temperature and Humidity Sensor Driver
Temperature(F): 3
Humidity(%): 5
Activity ID: 641
Number of Sensor Readings: 17
Generate
Cancel
Output 3:
Temperature:
Humidity: 5 %
Activity: 641
Got Output 3

3. Cancel the Running Async Task

We can click the “Cancel” button to cancel the running task immediately before its completion.