

# MoveMonitor - Android

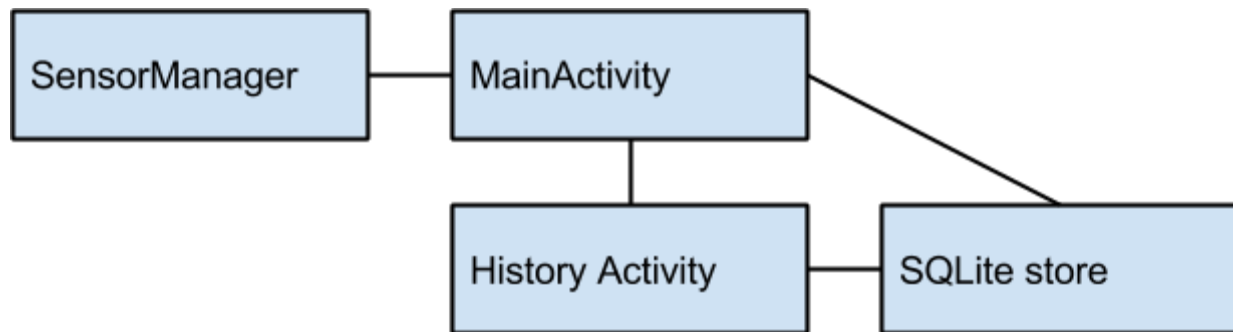
Jonathan Guan  
008091915  
CMPE 277

## Goal of the App

The goal of the app is to keep track of the user's movement via an Android smartphone. Features include accelerometer sensor input, sqlite interface, and ability to run in the background.

## High-level architecture

A system level diagram is below:



### MainActivity

Responsible for display of movement count, taking input from the sensor manager, and output to screen. Upon touch of button, movement count will add an entry to the sqlite store and reset the movement count on screen.

### History Activity

Responsible for display of historical results from the SQLite store. Sorted by most recent date first.

### SQLite Activity

Responsible for inserting and fetching movement entries.

### Sensor Manager

Provides accelerometer input to Main Activity to calculate movement count.

## **Android techniques**

Communication between activities is mainly through Intents.

List adapters are used to display list views

## **Testing**

Testing is done via device and via simulator.