**180 Switch**

**Hardware/Software Tools:**

* Android Studio 2.3.3
* Ubuntu Server
* MySQL Database
* GitHub Repository
* Audio Input Device
* Physical Android Device for Testing
* Virtual Machine for Server
* Laptop to act as a Virtual Server
* Java Developer Kit
* Audio API’s and Libraries

**Project Requirements:**

* Simple Graphical User Interface
* Access to Server on Running VM
* Permission to access microphone/speaker
* Should have at least 6 images.
* Should have a minimum of 10 java classes
* The application should be able to store data locally and read it back.
* Should be able to make network connection and run online/offline.
* Support two languages: English and French.
* Should pass multiple testing processes, including Junit

**User Requirements:**

* Requires permission to use audio input/output
* Requires Android Device
* Must have lollipop(API21) or above as their android OS

**Current Work Progress and Completion:**

We currently have 80% of layouts completed, we are in the progress of completing two java classes. We are researching how to implement the database to the server, and the management of the data. We have a template of our app and a current working version of the app to show as demo. An estimated percentage of our current work progress is about 15-20% completion.