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# Functional Requirements

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Functional requirements using the MoSCoW rating system:

- **(M)** - must have
- **(S)** - should have
- **(C)** - could have
- **(W)** - would have

## Android client:

- battery status **M**
- sound status (mute, unmute) **M**
- sound volume (% representation) **M**
- battery warnings (flag activation) **M**
- battery animations **C**
- sound modes **S**
  - continuous playback (pitch, volume)
  - intermittent playback (stream 1,2: pitch, volume, beats per minute /BPM/, stream equality)
  - .wav file playback
- bluetooth device scanning **M**
- multiple bluetooth device connection - using a multi-threading implementation **S**
- activity levels detection **M**
- motion detection (external libraries/ code inclusion) **C**
- data logging functionality to be used by the server application **S**
- bracelet status modes (hyper-active, moving, idle) **S**
- bracelet status update propagation to server **C**
- accessibility integration (using the 'explore by touch' feature provided by Android's TalkBack) **S**

## Web Server:

- client data logging **M**

- data statistics display **M**
- sorted statistical data based on user-specific filters (most, least active bracelet) **C**
- control bracelet configuration wirelessly **W**
- check bracelet status (modes, settings, etc.) **W**
- DiscoverMyAbbi functionality **W**
- activity levels visualization (using the data logs for the gyroscope, compass and accelerometer sensors) **S**
- possibly store bracelet meta-data (ID, description) **C**
- accessibility integration (strategically placed UI elements and feature descriptions to be easily accessible) **S**

\*Kinect interaction facilitation

### ABBI3 System

*University of Glasgow, School of Computing Science, GIST, 2015*

