Towards making Handshake smarter
The SmartBand is a wearable bracelet-like device that exchanges information about its users.

What we have used:
A. SmartBand:
   (1) Trinket Pro
   (2) Bluetooth Module
   (3) Accelerometer
   (4) IR sensor and receiver
B. Android App
C. WAMP Server

Objective: We first detect handshake using accelerometer and then IR fires a unique band ID. This ID is then sent to the Android app via Bluetooth, which is then sent to the server. Server automatically sends the data corresponding to that ID back to the Android app, HWIICH is then displayed in the app.

Plot of variation in acceleration in vertical direction during handshake used in handshake algorithm.

Screenshots of Android App

Thank You
-Team Smart Handshake