Node JS Server

TCP

1337

Socket IO

8090

Arduino

Browser

data that server receives
COMPLETED:

1. Fixed Arduino to reconnect if disconnected
   - ECONNRESET error (TCP conversation abruptly closes)
2. Fixed Server so it doesn’t crash when Arduino tries to connect
   - connections property is deprecated. Use getConnections() method
3. Fixed website so smartphone and such could operate it
4. Music shield is able to play sounds without computer (preset all the setting – the volume, the track, etc.)
TO FIX AND TO DO:

• Server is still unpredictable; sometimes other devices can connect
• Seems to be able to connect to one computer at a time (read response from one browser)
ACKNOWLEDGEMENTS

University of California, San Diego (UCSD)
Dr. Gabriele Wienhausen
Teri Simas

National Institute of Information and Technology (NICT)
Dr. Shinji Shimojo
Takata Tomoaki

National Institute of Advanced Industrial Science and Technology (AIST)
Dr. Jason Haga

Balboa Park Online Collaborative (BPOC)
Chad Weinard
Takoyoki Party!

Tenjin Matsuri
Ueno Ninja Castle

Tsutenkaku