

Device

Bluetooth
to dongle
@ PC

Local
PC

Python
Script

(Remote)
Microsoft
Azure

Azure Query
to Power BI
output

Real-time Dashboard (Remote Access)
Power BI

* Processes inside dashed box
are performed in real time
during data collection

Blob Storage
w/ JSON
Files

(Remote Access)

Python script downloads
new JSON files to
local storage on PC
at sensorlab and
loads into database/query
solution (TBD)

Local storage on PC
at sensorlab
* within database query
solution (TBD)

React (library) Package
queries complete dataset
and renders visualizations/
allows users to download data;
Hosted on University network

Users query
data / data queried
to access level
of user on React
UI

University Network hosted
React User Interface
with filter boxes for
user queries
Data visualizations
Downloadable data