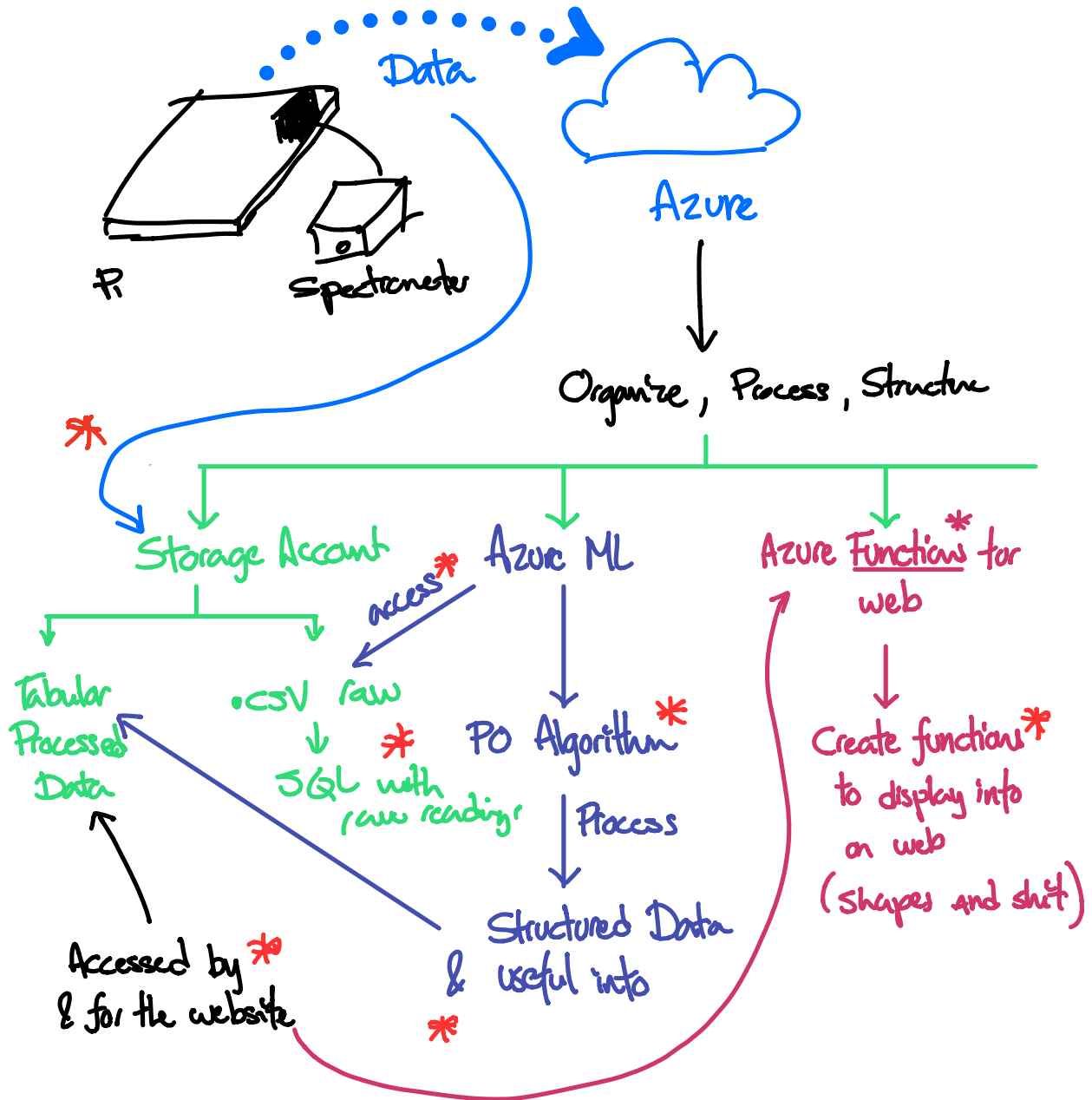


Senior Project Scope



Data Collecting Script

User Entered Info (Researcher)

Name
Id
Skin Color } Personal Details

* File transfer
UI. Question if
they want this
→ Edge cases

Automated Info

Spectrometer readings are received and stored
in data structure → Map through dict?

→ Ask if we care for all readings, or any
preprocessing (mean values)

One
.CSV?
or
one
per
patient

- Live reading should be shown → Python
→ Pi: HTML file

Appending to patient file

if no internet
then save locally

Connect to Azure and upload

Possible Future and Current Issues:

- PB has not purchased Azure Sub
- Accessing Pi's functions through Python
- How readings are received and stored

Processing Script (Azure ML)

Access raw data

Algorithm goes here

Stores processed data

Database (Table)

Access raw data (Azure Connectivity)

Convert .csv files to one table
'bundle' accessible from website

Scripts:

Provides easy operation for PO

① Accessing Pi and runs data script

↳ ①.1 • Gather user data, store and pair into form spectrometer.

Pi
Azure

↳ ①.1.1 • PO's script to run spectrometer

Documentation
for PO

② • Accessing Raw data and Processing

↳ ②.1 Sending data to Azure

Documentation
for Capstone 1

③ • Functions for data show in web.