A diagram of a computer network

Description automatically generatedBroadcasting System

A red circle with white number one in it

Description automatically generatedA red circle with white number 2 in it

Description automatically generatedA blue circle with a white letter b in it

Description automatically generated**A red circle with white number three

Description automatically generated**A blue circle with a white letter

Description automatically generated

Steps:

* Once the CanSat is in the air, it will start collecting data and broadcasting it, via a LoRa module, to a ground station. A second LoRa module, positioned at the ground station, picks up these signals and transmits the data to a Raspberry Pi Pico W.
* Because the frequencies of the Raspberry Pi Pico W and the LoRa module are 433MHz and 133MHz, respectively, there should be minimal interference between the two.
* The Raspberry Pi Pico W will wirelessly transmit this data to all the clients connected, allowing real-time data visualization.
* CSV 1 will be stored locally on the disk drive of the microcontroller located within the CanSat; this is to ensure that we will, still, have the data even if the connection between the two LoRa modules is broken.
* CSV 2 will be stored locally on the disk drive of the Raspberry Pi Pico W, positioned at the ground station; this is to ensure that the data will still be obtainable even if the CanSat is unable to be recovered.