When You get a new ESP32:  
  
1. Flash it with the code. There are two versions of the code without sleep and with sleep. Choose the one which is necessary.

2. Make required changes to the code…..like ensuring the following details are correct. serverName needs to have the IP of the device running the server. ESP32\_ID is the unique name assigned to each tag. Make sure its unique for each ESP32 you flash.

A screenshot of a computer

Description automatically generated

If using the deep sleep version of the code, make sure to use a vibration switch between GPIO 33 and 3.3V pin to wake the device up.  
  
3. Once you are done, inside Peoject/backend run the server\_Final.py to run the server and get everything up and running.

For Mapping:

1. Use the script KNN\_trial\_floor2.py.
2. Flash a tag with non-deep sleep version of the code and take it to the x,y you specify in python file and record 20 points……repeat the steps covering the entire floor plan.
3. Right now we are targeting only 15 routers mac addresses of which are added to the list at the top of each python file. Make sure to add the mac addresses to this list if you plan to add routers to the system.
4. Z in the data represents floor or can be used to represent any other building floor using an indexed number for the floor and needs to be added manually to the mapping data.