Weather Files

In this topic we will explore different ways servers can store data.

Instructions

1. Use attached Weather server/client files `weatherfiles_server.py` and `weatherfiles_client.py`. Save the server in its own directory.
2. Create a JSON file per city in the weather_data dictionary (`london.json`, `paris.json`, `tokyo.json`, `new york.json`), which will contain the corresponding city's data. Don't change the values themselves. Notice that the files should be lower-case, but the client request is case-insensitive (so a request for "LoNDoN" should also work).
3. When a city is requested by the client, the server needs to get the data from the corresponding file.
4. The server should support added cities in run-time: While the server is running, add a new file `Hanoi.json` and set the weather values (temperature, humidity, description). The client should now be able to request the weather for Hanoi - without restarting the server (to be specific, the code in `weatherfiles_server.py` would require no change when adding `Hanoi.json`).

Server Implementation vs Network Protocol

After your changes, the network protocol shall remain the same as in the attachments. The client should require no changes at all.
This is an important aspect of network applications development: separating the server implementation from the network protocol.

To submit

Submit ZIP of server directory which includes `weatherfiles_server.py` and the data files (`london.json`, `tokyo.json`, etc.) in the same directory.