Showing Progress in Big TV Screen

Display Excel Automation into Web Browser

Using watchfiles and websocket

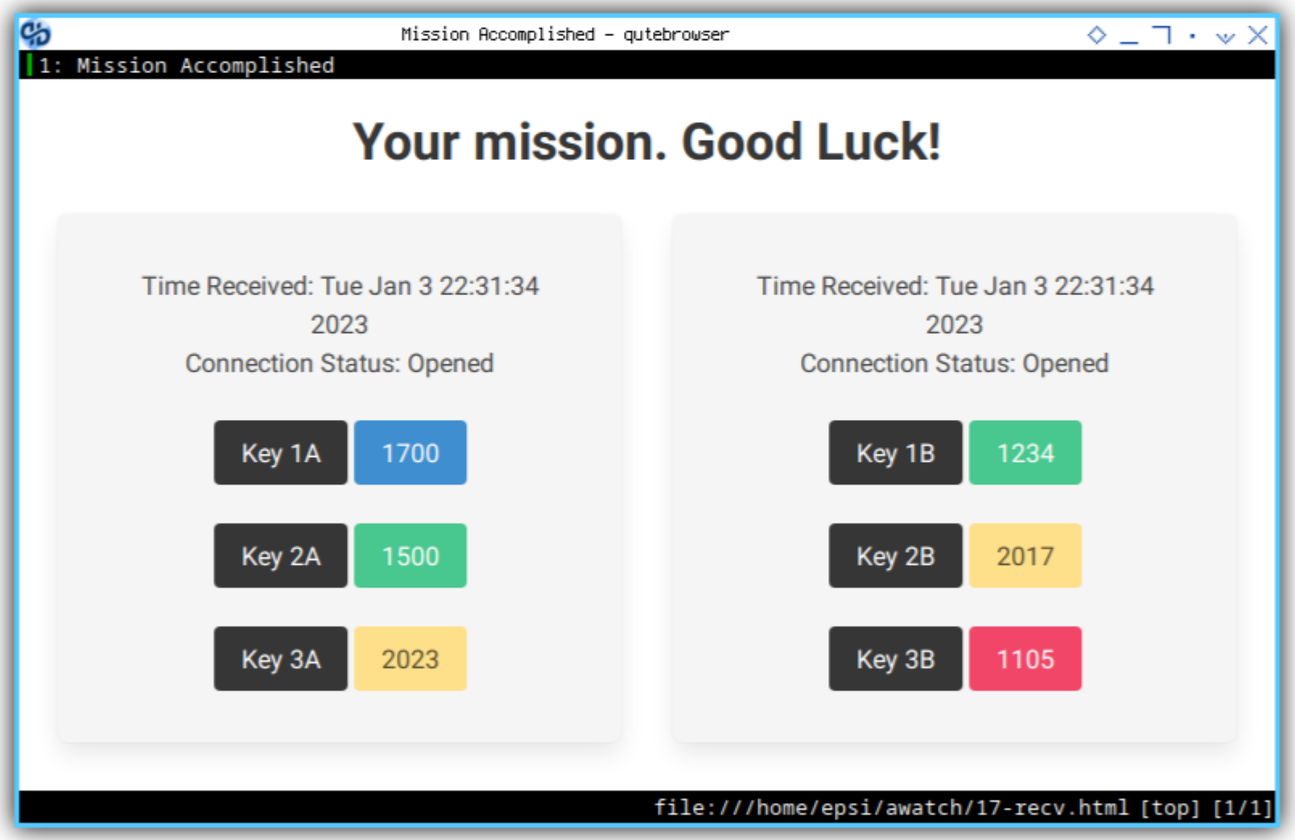
Quick Fix and Dirty

Jakarta, Indonesia

January 2023

Goal

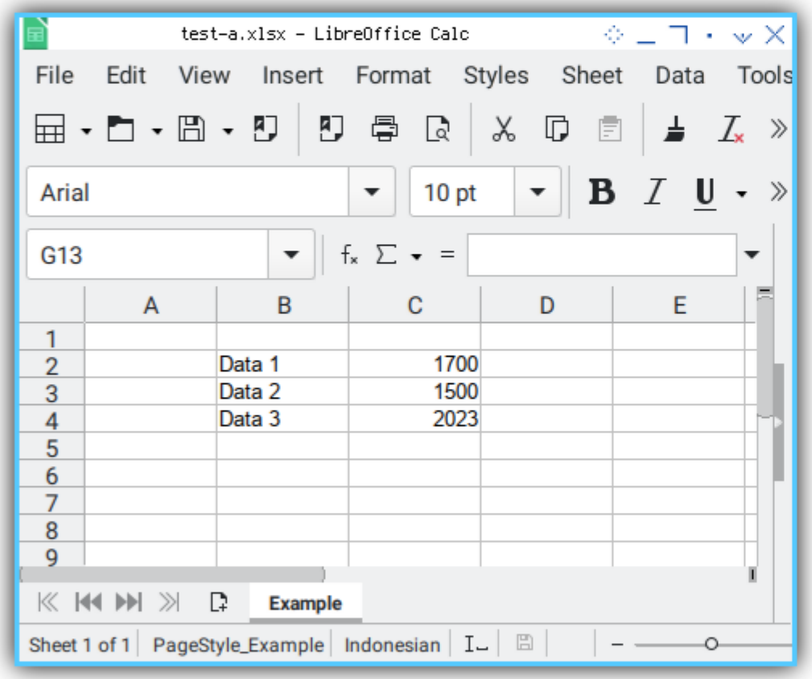
Display progress in big TV Screen.

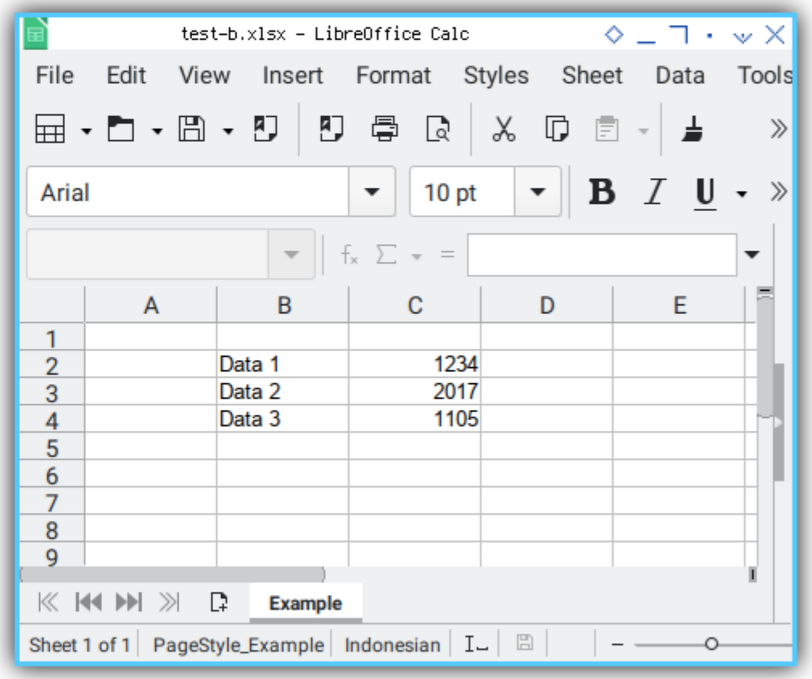


Such as production, sales, or frontoffice.

Basic Idea

Data update, for any save event in excel.





From excel source, from different PC.

How does it works?

Using python script
asynchronously.

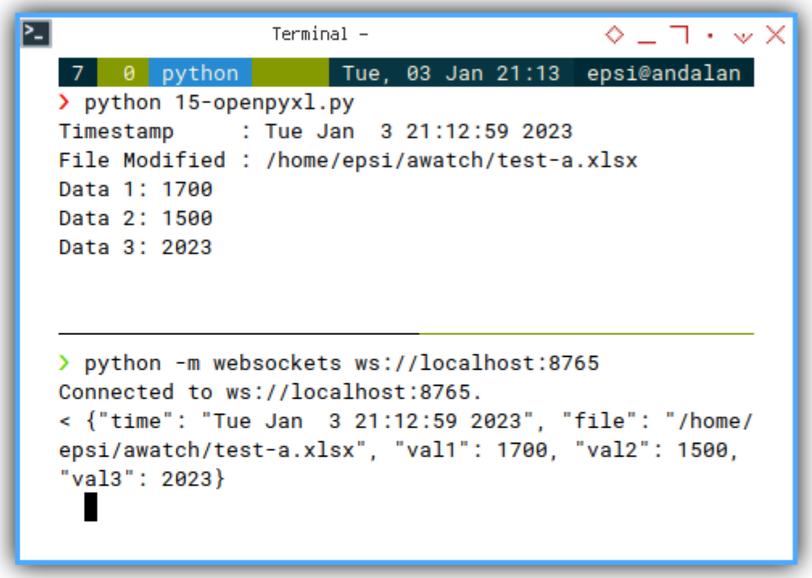
Monitor excel file event
using watchfiles.

Read particular cell in excel
using openpyxl, then bundle as data.

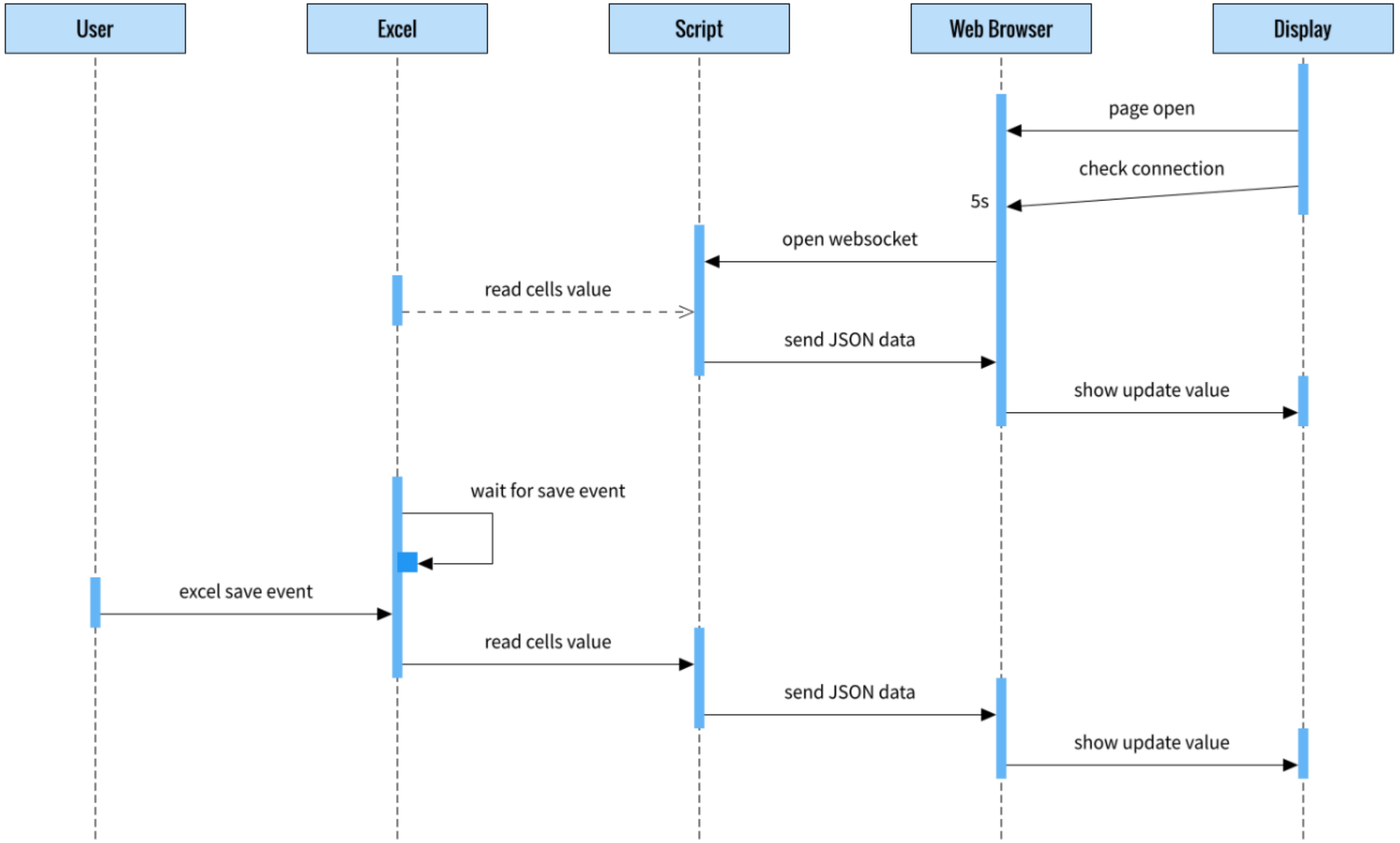
Send data using *websocket*
as sender, using specific port.

Open webpage in web browser
in large TV display.

Webpage as listener, listen specific ip and port,
using websocket, then display in predefined html element.

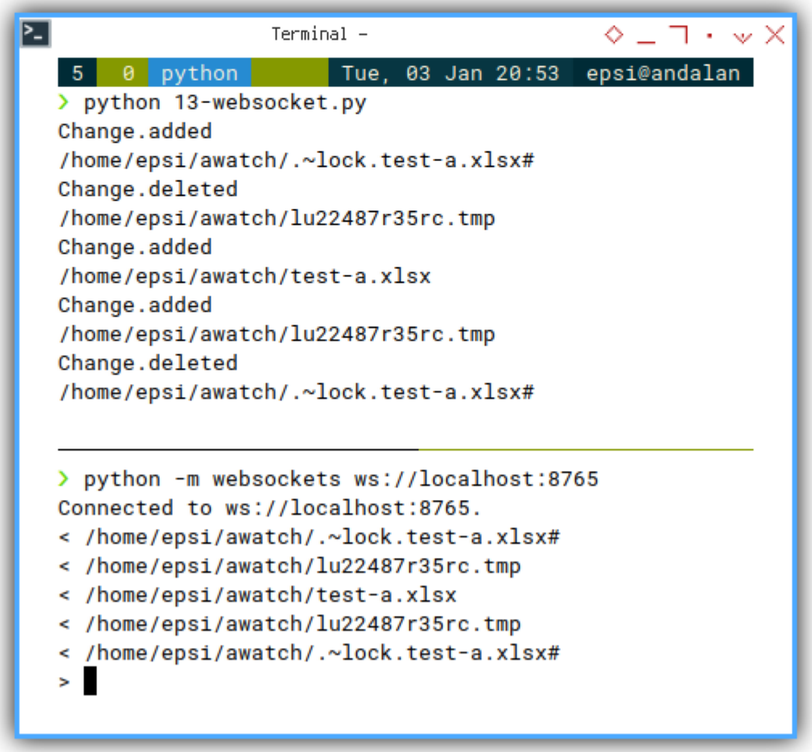


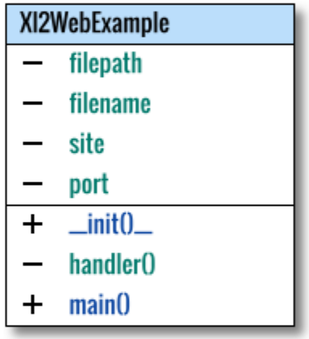
Really? How does It works?



Folder Monitoring

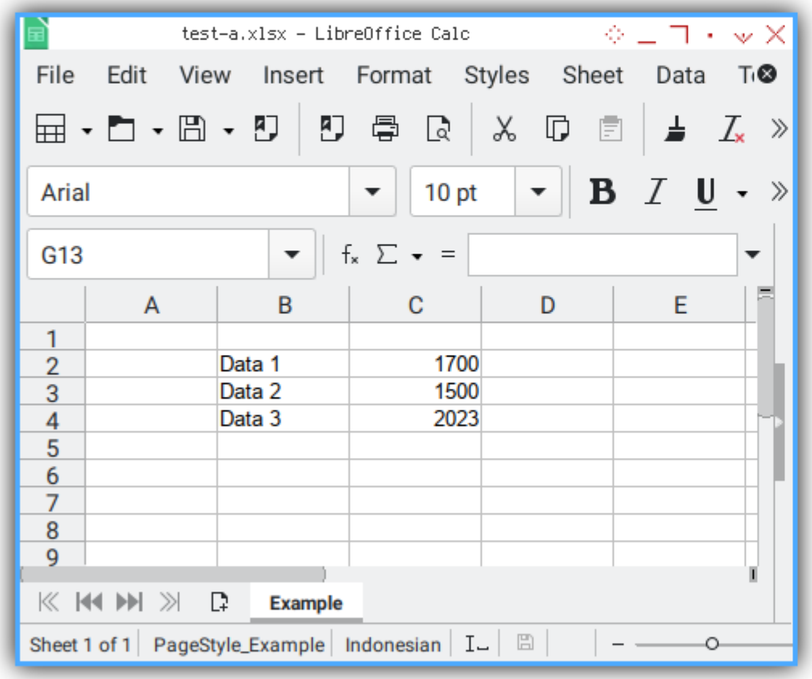
Library: watchfiles.

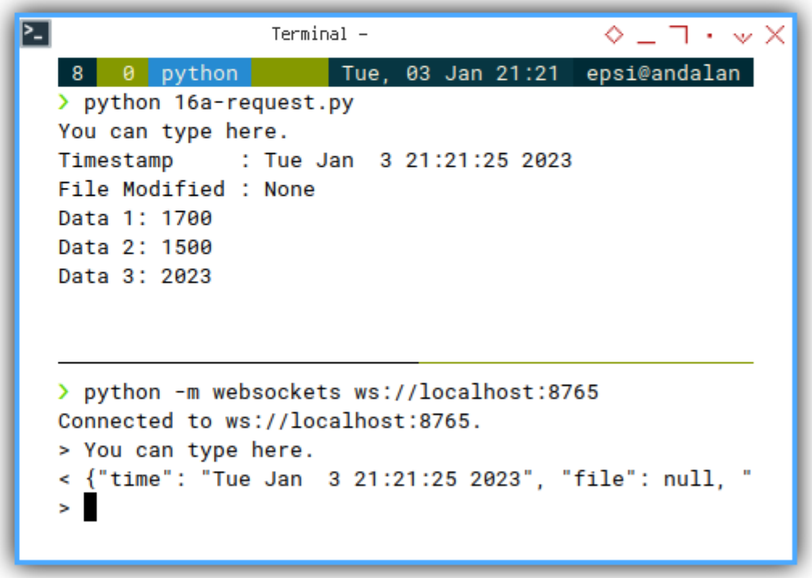




Reading Excel

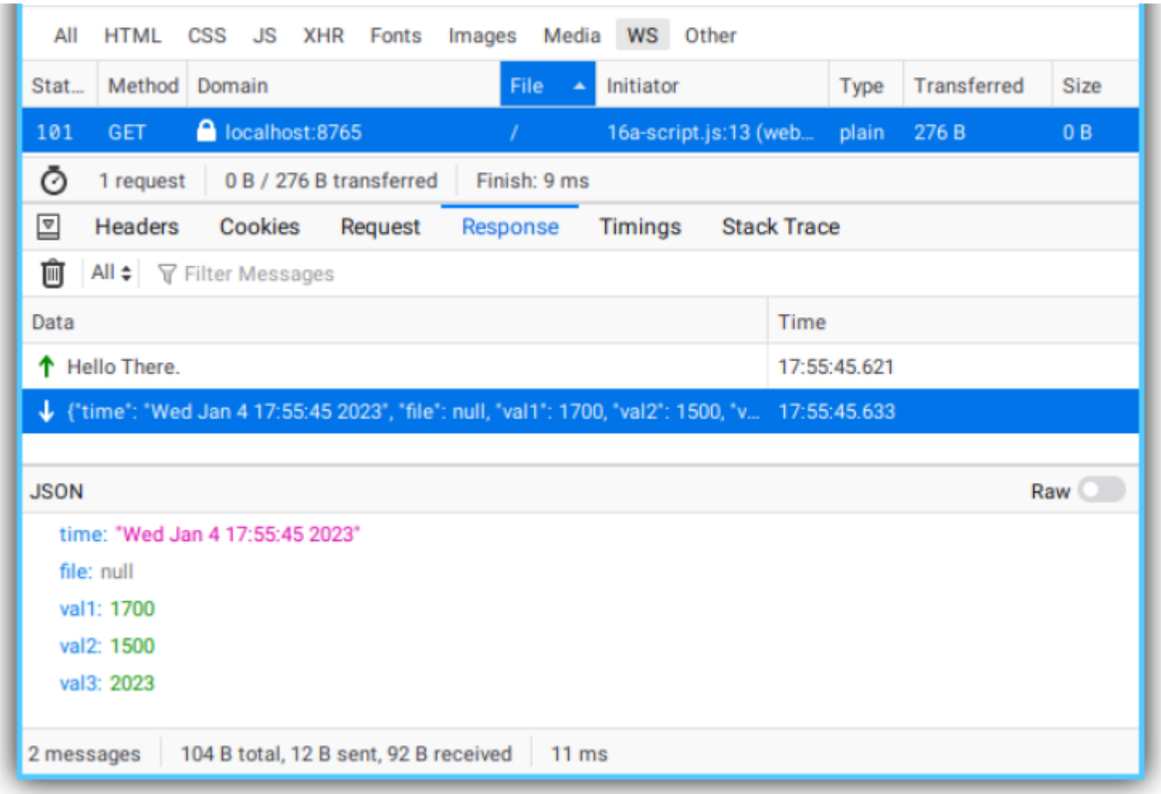
Library: openpyxl

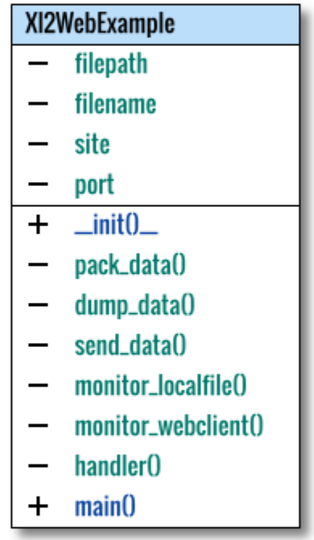




Sending Data as Messages

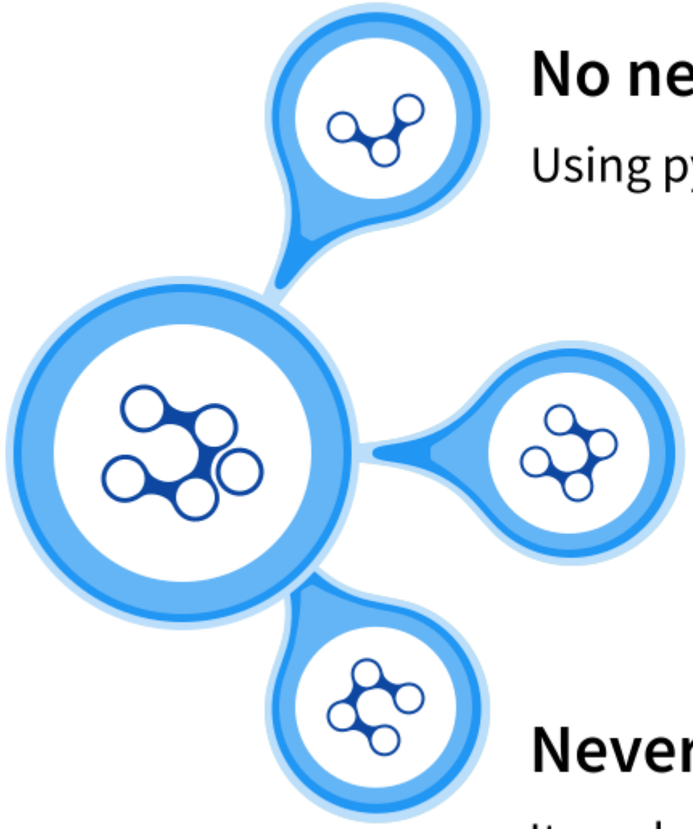
Library: websocket, on specific port





For Example: ws://localhost:8765

Websocket Notes



No need any web server

Using python script as websocket handler is enough

One webpage can handle many excel files.

Simple to manage

Never been tested in any large TV display

It works in my computer