How this was done (for platform)(for backend/requirements.txt):

1. First, a script was written to get the names of all imported packages in all the python files in a parent folder
2. Then, using a script, they were separated into 3 categories, namely built-in, third-party, and others. (built-in packages are those that come with python like datetime etc, third-party are those names which are present in requirements.txt, and others are the rest of the imported packages)
3. Then, the "others" from above step were manually classified into third-party packages, and neighboring code.
4. Then, all the above third-party-packages were installed in a new virtual environment on a local machine (allowing dependencies to be installed)
5. Then, the packages common to requirements.txt and all the installed third party packages from above step are considered as first set of minimal packages required.
6. Then, a new virtual environment named "test\_minimal\_platform" was created and the above minimal set of packages required are installed without dependencies (pip install -r minimal\_requirements.txt --no-deps)
7. Then using this virtual environment, camera/main\_proc\_mgr.py is run with a previously created project on the website, and all the import errors are fixed by adding each of those packages to the minimal\_requirements.txt and installing them with no dependencies
8. Then, the service files in restart\_services.sh (their parent directory is /etc/systemd/system) are copied to new service files with the word "test\_minimal\_platform\_" prepended to them. And those service files were edited to use "test\_minimal\_platform" virtual environment instead of "platform" environment. And the restart\_services.sh and stop\_services.sh are modified to start and stop these new service files.
9. And all the import errors were fixed by using error statements in log files after restarting\_services each time.

At the time of this comment, requirements.txt has 128 packages in it, and the minimal\_requirements.txt has 103 packages in it, and the working was tested.

The code is in [this](https://gitlab.com/saga_r/paralaxiom_remove_unused_packages) project