File Monitor plugin

1 How it works

File Monitor is the main function for the Earth. It can scan the target directory and get the information of file and folder in order to manage the whole movie project. The user can check and find some particular file that belongs to some user or some project. And of course, it is the only function for daemon in the original version of earth.

2 Plugin-lization

In milestone 5, our group focused on the daemon plugin and tried to create some API for the plugin system. As the only function in daemon, file monitor certainly became our aim. We tried to split it into a lot of small new class as API. After that, we imagined that it could work as a plugin in the database for the whole earth. But the result is not going as our imagination.

3 Analysis

In the original file_monitor.rb, there is two class: ETAprinter and Filemonitor. ETAprinter is a inner class of Filemonitor. So that ETAprinter could be taken out from Filemonitor as an API.

But for the rest of file_monitor.rb, the functions have complex relationship with each other, which belong to FileMonitor class. It took us a lot of time on analyzing the structure and relationship. But it is useless. The File Monitor class is a high-integrated class. If it is forced to be a lot of small fragments, it would not work any more. Therefore, we changed our mind and kept all of them together treating it as a whole API class as Java developer did to API.