

Activity-Tracker

Develop an activity-tracker, that can monitor your process and help you visualize the time you spent on different apps

Code Tree

```
activity_tracker/
├── core/
│   ├── __init__.py
|
│   ├── process_tracker.py      # 进程追踪功能
│   └── windows/
│       ├── __init__.py
│       └── windows[core](core)_tracker.py
|
│   ├── macos/
│   │   ├── __init__.py
│   │   └── macos_tracker.py
│   └── linux/[core](core)
│       ├── __init__.py
│       └── linux_tracker.py
|
└── data_analysis.py          # 分析数据
    └── database.py           # 数据库操作
    ├── config.py             # 配置文件
    ├── test.py               # run a small test
    └── tracker.py            # 主程[core](core)序
```

To be added:
tray_app.py

process_tracker.py

responsible to track all the process info

- foreground_windows : to be completed in subclassed
- background_process

Subclasses:

1. **windows_tracker**: implement this first
2. macos_tracker
3. linux_tracker

database.py

responsible to store all the information from **tracker** in database

- init_database
- save_activity

data_analysis.py

Analyze all the collected data , for some apps might now run in the foreground, like some audio players.

test.py & main.py

run a simple instance on test.py

Developing Plan

1. Implement the **tracker**, *Windows* part first, then try mac/linux
2. Handle the data collected from **tracker**,
 1. init database
 2. analyze data in the base
3. Get the analysis **visualized**

process_tracker -> windows_tracker -> database -> test.py -> visualize.py