Project Abstract - PyCK

Team Details

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Inspiration for my idea

As we work on Laptop/desktop it's important to have an application that can monitor your screen time including time spent on different applications , and present it to us in a graphical way so that users can understand it . This helps the user to adjust his time spent on laptops/applications , organize his works and analyze the different things like while doing a task how many times he got distracted. All this results in better work efficiency and an organized way to keep track of yourself.

Description

My project is aimed at building a screen time analysis application , which can tell the user about the time spent on different applications , so that he can better organize his work. Along with that , I will also include a notification system which will help the user to take a short break . The notification system will be to lessen the eye strain of the user .
For the screen time analysis basically three python files will be made. The first file will track the activity of the user , the second file will help in interpreting the data and convert it into a json file , finally the third file will help us in presenting the output to the user in a graphical way .
The notification code displays a message along with the opening of a melodious song for a given time interval , helping users to relax for a few seconds .

Libraries/Frameworks to be used

I will be using libraries like matplot , pandas , numpy , seaborn, plyer ,json and modules like time , datetime , os module , sys module .

Solutions Proposed

First of all i will create a notification code , using library plyer and get the code running. The project will help to pop out notifications along with a youtube video . After that i will make a python file which will automatically detect on which application i am currently , along with this there will be another python file which will be serve the purpose to store the starttime , endtime ,url etc information of the application we visited and all this will be stored in a json file , in last a another (main code) will run that will serve the purpose of converting the json file to csv file (using online convertor) and use the library matplot to present the data in front of user.

References

I am following tutorials from YouTube , python documentation , stackoverflow .

Rough Timeline

After the end semester I will revise the material taught in lecture and watch some pending concepts , after that I will go for implementing the notification mini project . After all this I will start with a tutorial of a screen time analyser project.