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Python Based Auto-Reminder System

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ABSTRACT

The main idea behind this system is that it extends the instinctive morals by inspiring and prompting the basic responsibilities at times when its habitually forgotten. It prompts the task at fixed duration and no. of times the user has requested the list of tasks. In this article, we have built a new application based on python code to devise task management control.

Keyword: Amenities, Assets, Prompt, Protocols, Python, Schedule, Syntax

1. INTRODUCTION

For daily busy schedule we have created a app from the scratch to provide relief to the users all over the globe. our application compiles of series of coding meant to display preset task at provided time automatically, hence providing less stress to the user and increasing the standalone efficiency by 100 folds. That being said for an example if we feed a particular website with preset time durations. This app will open the website at that time automatically without any manual work needed. Other notable applications are it can be used to Set reminders, Scare someone with constant flash of notification lights to contradict that your pc has some serious problems, it can manage your tasks, this app can also be modified to fetch emails or fetch some messages and periodically ask you to reply to them. All this are mere basic applications, while our app has no limitations evolving constantly.

2. PROBLEM DEFINITION

Across organizations, teams, enterprises and individuals the common problems faced are about how to increase the productivity and efficiency of the individuals and the teams. While doing work, we tend to get so involved in it that we might forget or neglect many of the vital things that are essential for its successful completion. And we do not want to lose their valuable data, time and assets, so how do we make sure that we could be reminded automatically about those things after every preset time intervals so that we can be on track and do not lose the work in hand. Perhaps by giving breaks to the standalone users or people working in groups we can release stress in the workstation thereby increasing their productivity.

3. ADVANTAGES OF PYTHON

Third Party Modules are present as Python Package Index covers various third-party modules which make Python capable of relating with most of the other platforms and languages. Python has Widespread Backing Libraries which gives a large regular library and envelops areas like programming in string operations, internet protocols, web amenities tools and interfaces for operating system as well. Various

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high end programming tasks have already been scripted which reduces the length of code to be written. Python is also open source programming language developed under OSI-approved open source license making it free for use and distribute even for commercial purposes, moreover its development is determined by the community which collaborates through mailing lists and hosting various conferences for its code, and provides for its abundant modules. Learning python is easy and even Supports are Available, it offers exceptional readability and uncluttered simple syntax which helps learners to utilize this programming language. Furthermore, the wide base of users and active developers has lead to rich internet resource bank to encourage continued adoption of language and development. Python has User-friendly Data Structures as it has built-in dictionary data structures and list which can be used to paradigm fast runtime data structures. Additionally it also provides the possibility of dynamic high-level data typing which reduces the length of support code. it also has high Productivity and Speed with clean object-oriented design, delivers improved process control proficiencies, and holds strong integration as well as text processing capabilities. Python is considered as a feasible option for building complex multi-protocol network applications.

4. PROBLEM ARCHITECTURE

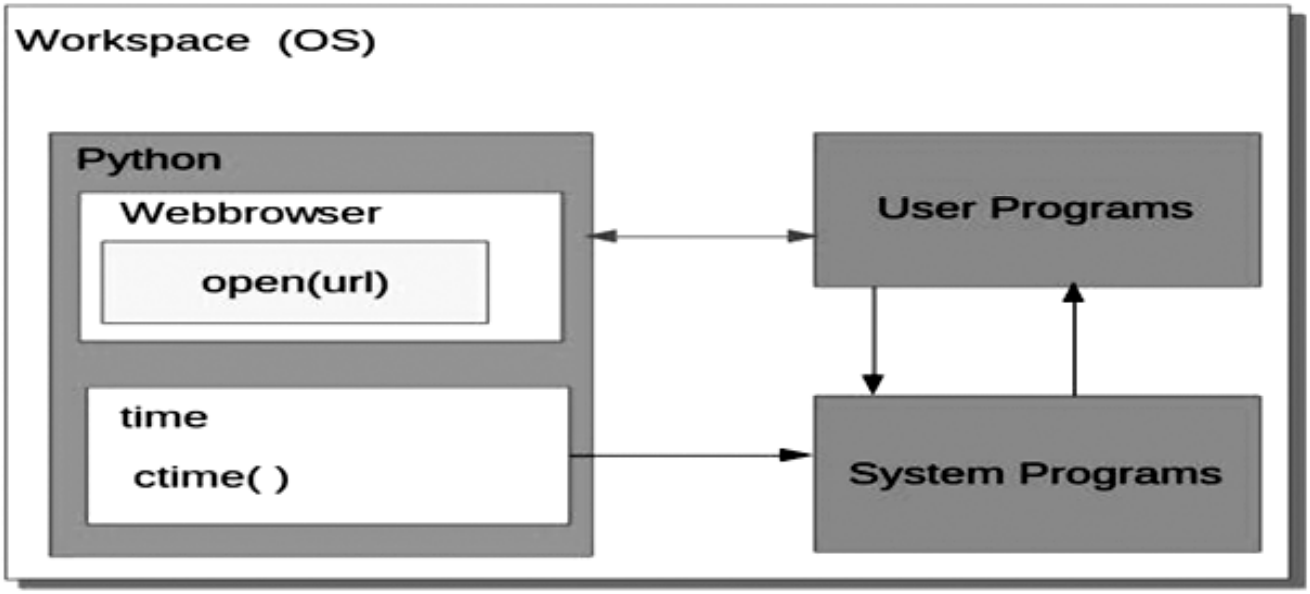

Figure 1: Problem Architecture

Step 1: Define the value and duration of your interval. This interval defines for how much time you would like to have a break. It is also important to decide for how many times you would need to have a break while working on a project that requires long working hours.

Step 2: Mark your current time. This would be needed as a reference for the interval durations. After marking your time you would be waiting for next few minutes or hours as per defined in the intervals. This process is repeated as many times as the count of the intervals exist. Now your current time will be taken as a reference for the next interval.

Step 3: Keep your processes (user programs and system programs) running and after a preset time python opens a web browser. In this web browser, you will be directed to a place where you're prompted to do a particular task which includes taking a break as well.

Step 4: When your work is completed and your interval time gets over you're automatically redirected to your work where you were working originally.

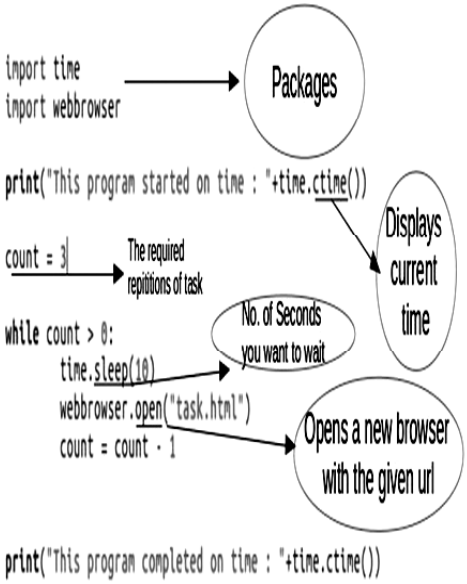

Figure 2:Sample Code

5. FLOW OF WORK

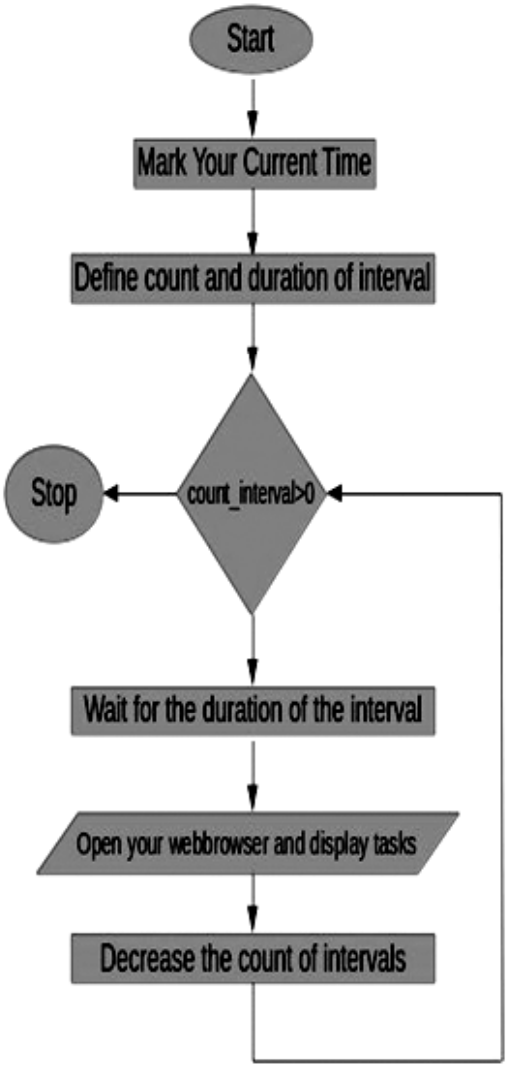

Figure 3: Flow of Work

6. APPLICATIONS

It's typical applications are that this app can manage your day to day tasks. Furthermore, it can be modified to check for your progress constantly without disrupting your ongoing work, It can also be modified to fetch mails or fetch some messages and periodically ask you to reply to them in the project itself. It can remind you to take breaks. That being said it also works as a health & fitness tracker, reminding you to take your medicine dosage at prompt durations, it can even operate as a schedule reminders, notifications and alerts. As it's constantly evolving it can be revamped to remotely control functions, can also be made platform independent and can be used as an API.

7. EXPECTED OUTCOME

It is expected that by using this system, the user would be able to manage the tasks and this system would prove to be a better organizer. This would certainly increase the productivity of the users and would help them manage the work pressure and stress. Hence with the help of this system the overall throughput of the user would go up.

Figure 4: Message for 1st Output

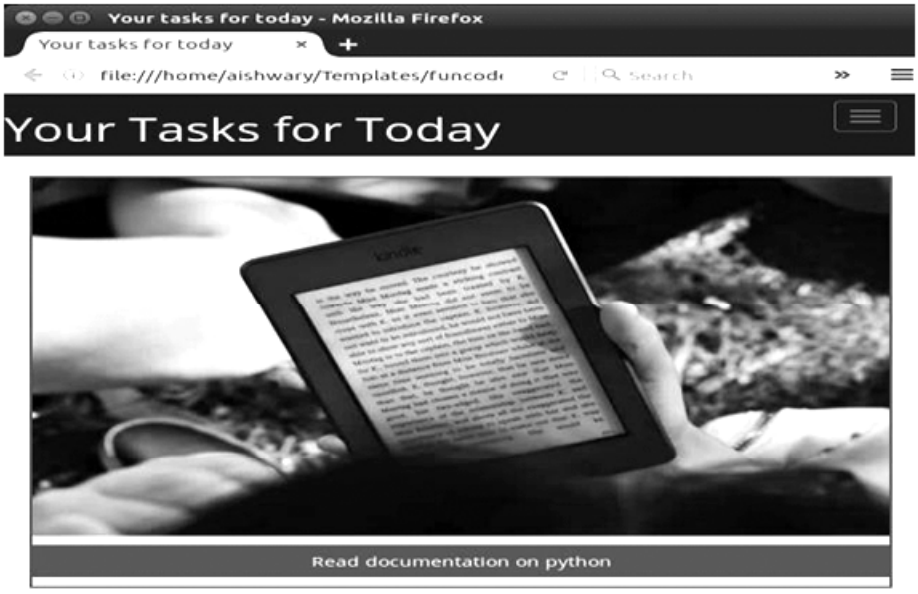

Figure 5:Message for 2nd Output

8. CONCLUSION

The main motive behind this system is that it broadens the instinctive morals by uplifting and reminding the basic duties at times when its mostly forgotten. It repeats the task at preset duration and no. of times the user has requested the list of tasks. In this article, we have generated a new application based on python code for improvising task management control.

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