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Website Hindrance by using Python

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Abstract: The project proposes "WEBSITE HINDRANCE" is aimed to block certain distracting websites. In the existing system, the user can access all the websites without any permissions. So, the user can be distracted by those websites. In the proposed system, we are going to pass the link of websites which are distracting and then we will block those websites. If anyone needed to access that website it can't be possible because the website is blocked.

Keywords: Web browser, Python, Windows

I. INTRODUCTION

Website blocker is a software program that is used to block any websites on the internet and prevent us from accessing them. It is most widely used as browser extensions that "Blacklist" websites for you. So, that you cannot see the results from those websites. Here, we are going to create a program using python language that blocks websites and you cannot access those blocked websites. In this, we will block the access to the list of some particular websites during the working hours .so, that the user can only access those websites during the free time only. The working time in this python application is considered as optional hours from (9 AM to 5 PM). The time period except that time will be considered as free time.

II. EXISTING ALGORITHM

In the existing system, the user can access all the websites without any permissions. There is no restriction for the user for usage of the websites in any time. Due to this problem people are facing so many problems. So, the user can use some distracted websites in the busy hours like social media websites. But this is not good for the employee or students and organization. It can effect the organization in security purposes and then user cannot focus on their work.



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2.1 Disadvantages of Existing System:

- 1. It can affect the organization in security purposes and then user cannot focus on their work.
- 2. User can use some distracted websites in the busy hours like social media websites.
- 3. User cannot concentrate on their work.

III. PROPOSED ALGORITHM

In the proposed system, we are going to pass the link of websites which we think distracting. The people can experience a Safe Search during working hours. The Website Blocker does not only automatically block unwanted sites but also ensures safe search by preventing unacceptable queries in search engines. Additional advantages of the programs are their small size and the ability to work in the background, hiding itself, so users cannot bypass the Internet Blocker. Moreover, our Website Blocker does not affect internet speed and page load time.



Figure 2: Flow chart for website blocker

3.1 Advantages

- 1. At the time that you are working on your computer, the program will block those websites.
- 2. It will block the given list of websites in working hours only.
- 3. If anyone needed to access that website, it is impossible to access those websites.
- 4. So, the user cannot distract from their work
- 5. It will help you to find time-wasting activities and block or limit them.

IV. IMPLEMENTATION

Special note for Windows users : Windows user need to create a duplicate of OS's host file. Now provide the path of the duplicate file in hosts_path mentioned in the script.

Scheduling above script in Mac : For scheduling above script in Mac you have to open crontab in your terminal.



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Last login: Mon Nov 20 07:32:23 on ttys001 You have new mail. Abhisheks-Air:~ abhishekvermaS crontab .e crontab .e: No such file or directory Abhisheks-Air:~ abhishekvermaS crontab -e Figure 3: Recent Host Files abhishekverma — vi → crontab — 80×23 . . 0reboot python /Users/abhishekverma/PycharmProjects/app1/website_blocker.py INSERT --

Figure 4: New Command Prompt

- 1. Now press "i" to go into insert/editing mode and write @reboot python script path.
- 2. Save the tab by pressing first esc to quit write mode and fall back to command mode and now write ":wq" and finally press enter to validate.
- Restart your system and see the magic. 3.

4.1 Scheduling in Windows

Scheduling of above script is little bit trick but I will guide you step by step-

- 1. First of all change the extension of your script from ".py" to ".pyw".
- 2. Now open task scheduler. Task scheduler should look like this:

Task Scheduler Library		tus Triggers idy Multiple triggers defined		Next Run Time 11/20/2017 3:32:07 PM	Last Run Time 11/19/2017 5:14:03 PM	Last Rur The ope	Actions Task Scheduler Library
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Figure 5: First we need create a task in the task scheduler .

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3. Click on "create task". Fill the name of your choice and flag "Run with highest privilege".

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	<					>	View
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		When running the task, use the following user account:					
		DESKTOP-D6BG7T6\Ujjwal	Change User	or Group			
		Run only when user is logged on					
		Run whether user is logged on or not					
		Do not store password. The task will only have acc	ess to local computer resources.				
		Run with highest privileges					
		Hidden Configure for: Windows Vista [®] , Windows					
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Figure 7: Flag setting to Run with Highest Privilege

4. Now go to triggers, select "At startup" for begin the task.

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	 Do not store password. The task will only 	have access to local resources						
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	Hidden Configure for: Windows 10							
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Figure 8: Then go to triggers and select the beginning of the task.

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5. Go to Action bar and create a new action and give path of your script.

skiller Littery		Status	Triggers	Next Run Time	Last Run Time	0.	Lest Run	Actions
© Grangelingen Ready. Ats © Grante Task Constitution Statistical Statis	duler Library () GoogleUpd	Jam Ready	Multi-televise defined	11/20/2017 2.22/07 084	11/10/2017 5-1	4.03 PM	The ope	Task Scheduler Library
DK Cancel	MATLAB R: OneDrive S User, Feed.) User, Feed.) Website Bio	2 Ready I at Ready I ad Ready I S Ready I S Ready I	Mult At a General Triggers Actions Conditions Settings Mult When you create a task, you must specify the action that will At 1 At 1	occur when your task starts.		32:07 PM 2:00 PM 12 AM 3:09 AM 35 AM 2:19 AM	The ope The syst The syst (0x1) The ope The ope	Create Task Import Task Display All Running Tasks Enable All Tasks History New Folder View
			New Edu Date	ОК	Cancel			vate Windows

Figure 8: Then move to actions.



Figure 9: Giving Path to script.

- After giving path to script then we has to set some conditions in order to perform specified implementation.
- The task is where dependent on this below given conditions.

Name Status Triggers		Next Run Time	Last Run Time	Last Run Result	Author	Actions
MicrosoftEd. Ready Custom event filter			30-11-1999-00:00:00	(0w41303)		Tesk Scheduler Library
MicrosoftEd. Ready Multiple triggers det		25-05-2022 12:41:12	24-05-2022 22:24:06	(DuO)		Create Basic Task_
MicrosoftEd. Ready Multiple triggers del		25-05-2022 10:33:33	24-05-2022 22:24:06	(DuC)		Create Task
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ConeDrive Sta., Ready At 2200 on 01-05-1	General Triggers Actions Conditions Settings			00	Microsoft Corpora	Enable All Tasks History
Opera sched. Ready Multiple triggers di	Specify the conditions that, along with the trigger, deter	mine whether the task sl	hould run. The task will	nat	DESKTOP-1U1PUO	
Opera sched. Ready Multiple triggers di	run if any condition specified here is not true.				DESKTOP-1U1PUO	New Folder.
C SmertByte Te. Running At log on of any us	Start the task only if the computer is idle for:	10 minutes			Rivet Networks	View
() websiteblock Ready At system startup	Wait for idle for	thour		NO40	DESKTOP-1U1PUO	C Refresh
	Stop if the computer ceases to be idle	11000				Fielp
General Triggers Actions Conditions Settin	Restart if the idle state resumes					Selected Item
	Power			-		
Name: Dell SupportAssistAgent AutoUpd	Start the task only if the computer is on AC power					.P. Run
Location: \	Stop if the computer switches to battery power					M End
Authon Dell, Inc.	Wake the computer to run this task					Disable
Description: Dell SupportAssistAgent Auto Up	Network -					Export_
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	Any connection					X Delote
						E Help
Security options When running the task, use the following user User: Run enty when user is logged on Run enty when user is logged on or net Do net store password. The task will on	y have access to local resources	C	ОК С	incat		
Run with highest privileges						
Hidden Configure for: Windows 10						

Figure 10: Then apply the conditions as shown in the figure.

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) Task Scheduler (Local)	Name Status (a) MicrosoftEd Ready (b) MicrosoftEd Ready (c) MicrosoftEd Ready	Triggers Custom event filter Multiple triggers defined Multiple triggers defined	Next Run Time 25-05-2022 12:41:12 25-05-2022 10:33:33			Author	Actions Task Scheduler Library Create Basic Task Create Task
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	Location: \ Author: Dell, Inc.	Attempt to restort up to: Attempt to restort up to: Stop the task if it runs longer than: If the task in a scheduled to run ag If the task is already running, then the for Do not fart are instance.	sin, delete it after:	30 days			Run End Disable Export. Properties Delete Help
	Run with highest privi	logged on gged on or not rord. The task will only have access to local resources		OK Cancel			

Figure 11: Apply the settings as shown in the figure.

- After successfully creating the task then we can observe the task is displayed in schedule bar.
- This is important task in this implementation.

Task Scheduler (Local)	Name Status	Triggers	Next Run Time	Last Run Time	Last Run Result	Author	Actions	
Task Scheduler Library	MicrosoftEd. Ready	Custom event filter		30-11-1999 00:00:00	(0x41303)		Task Scheduler Library	
	MicrosoftEd. Ready	Multiple triggers defined	25-05-2022 12:41:12	24-05-2022 22:24:06	(OxO)		Create Basic Task.	_
	MicrosoftEd. Ready	Multiple triggers defined	25-05-2022 10:33:33	24-05-2022 22:24:05	(Ox0)		Create Task_	
	MicrosoftEd. Ready	At 10:03 every day - After triggered, repeat every 1 hour for a duration of 1 day.	25-05-2022 00:03:33	24-05-2022 23:03:34	(OxO)			
	minerstat-win Ready	At log on of any user		23-05-2022 23:58:15	(0x80070002)		Import Task_	
	OneDrive Re. Ready	At 23:42 on 16-05-2022 - After triggered, repeat every 1.00:00:00 indefinitely.	25-05-2022 23:42:57	24-05-2022 23:48:31	(Ox0)	Microsoft Corpora	Display All Running Tasks	
	OneDrive Sta_ Ready	At 22:00 on 01-05-1992 - After triggered, repeat every 1.00:00:00 indefinitely.	25-05-2022 22:13:04	24-05-2022 00:02:09	(0x8004EE04)	Microsoft Corpora	Enable All Tasks History	
	🕒 Opera sched. Ready	Multiple triggers defined	25-05-2022 19:01:30	24-05-2022 23:53:31	(Ox0)	DESKTOP-1U1PUO	S New Folder_	
	Opera sched. Ready	Multiple triggers defined	25-05-2022 20:11:34	24-05-2022 23:53:31	(Ox0)	DESKTOP-1U1PUO		
	SmartByte Te., Running	g At log on of any user		24-05-2022 22:29:07	(0x41301)	Rivet Networks	View	
	websiteblock Ready	At system startup		24-05-2022 18:41:05	(0x40010004)	DESKTOP-1U1PUO	G Refresh	
							Help	
	General Triggers Actions	s Conditions Settings History (disabled)						
	Name: websiteblog						Selected Item	
		ker						
	Location: \						 End 	
	Author: DESKTOP-1	U1PUOQ\sowmya					Disable	
	Description:						Export_	
							(% Properties	
							× Delete	
							2 Help	
							Help	
	Security options							
		use the following user account:						
	sowmya	use the following user account.						
	 Run only when user 	is because and						
	 Run whether user is I 							
		sword. The task will only have access to local resources						
	Run with highest print	vileges						
	Hidden Confid	gure for: Windows Vista ¹⁰ , Windows Server ¹⁴ 2008						

Figure 12: Now the website hindrance task has been scheduled successfully.

The treatment is implemented through the use of a productivity application called Freedom. Freedom is an application developed with the purpose of blocking online distractions. Freedom works by allowing the creation of blocklists - lists of websites the users would like to block the access. Provide them to the participants in our experiment. In addition, Freedom allows the creation of recurring blocking sessions: the application can be set to automatically block the specified websites during pre-determined periods of time. Finally, it can be synchronized on any digital device: laptops, tablets and mobile phones. One of the advantages of Freedom is that it is not browsing specific: it works no matter the browser used by the user. Provide them to the participants in our experiment. We can access the application analytical platform and logs to control correct installation of the application on the di erent devices and the actual usage of the application by the participants. We want to be able to control for this ellect and separate it from the ellect of blocking online distractions. In the exogenous treatment condition, participants are imposed externally a "blocking policy" with the objective to mirror corporate policies thatimpede the access to certain websites. Treatment is implemented through the use of a productivity application called Freedom. Freedom is an application developed with the purpose of blocking online distractions.

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V. RESULTS

Finally this is the outputs will be shown after scheduling the tasks. The given below websites are examples. We can block the websites which we need to block by scheduling in task scheduler. All the websites that we should be blocked is scripted in the python Script.

← → C (① facebook.com			□ ☆ ★ □
	This site can't be reached		
	www.facebook.com refused to connect.		
	Try: • Checking the cannection		
	Checking the proxy and the firewall		
	ERR_CONNECTION_REFUSED		
	Roload	Details	
→ 32*C Mostly clear	📕 🔎 🖬 🖉 🖬 🛛 📲) 💩 🕘 📓 🥑	∧ ⊜ ^{ENG} ⊕ ⊕ ⊕ 25-05-
F	Figure 13: The website has been bl	ocked in working hou	irs
	lays the error Which client already		
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Ø dub119.maiUive.com × +	This site can't be reached		
Ø dub119.maiUive.com × +	This site can't be reached dub119.mail.live.com refused to connect. Try: • Checking the connection		
Ø dub119.maiUive.com × +	This site can't be reached dub119.mail.live.com refused to connect. Try: • Checking the proxy and the frewall		
Ø dub119.maiUive.com × +	This site can't be reached dub119.mail.live.com refused to connect. Try: • Checking the proxy and the frewall	Details	
Ø dub119.maiUive.com × +	This site can't be reached dub19.mail.live.com refused to connect. Try: • Checking the connection • Checking the proxy and the frewall		
Ø dub119.maiUive.com × +	This site can't be reached dub19.mail.live.com refused to connect. Try: • Checking the connection • Checking the proxy and the frewall		
Ø dub119.maiUive.com × +	This site can't be reached dub19.mail.live.com refused to connect. Try: • Checking the connection • Checking the proxy and the frewall		
Ø dub119.maiUive.com × +	This site can't be reached dub19.mail.live.com refused to connect. Try: • Checking the connection • Checking the proxy and the frewall		
Ø dub119.maiUive.com × +	This site can't be reached dub19.mail.live.com refused to connect. Try: • Checking the connection • Checking the proxy and the frewall		
Ø dub119.maiUive.com × +	This site can't be reached dub19.mail.live.com refused to connect. Try: • Checking the connection • Checking the proxy and the frewall	Details	

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VI. APPLICATIONS

- School, Colleges & Other Educational Institutions.
- Companies.
- Organizations.
- Home (Kids).

VII. CONCLUSION

Website hindrance is the project which will block the given list of websites. The user cannot distract from their work. It will be helpful to the organization and the user. The main feature is that it will block the websites in the working hours only. User can access the website in the non-working hours. User can work perfectly without any distractions. So the project is very useful for the organizations. It may be software companies, colleges etc.., it is also used to college labs to stop the distraction of the students. As we block the unwanted websites, the student can only concentrate on the particular work rather than concentrating on the distracting websites.

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