

**Indian Institute of Information Technology, Allahabad**

## **Software Engineering**

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### **TEST PLAN**



### **Group Members**

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## **1 Introduction**

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the project Web Monitor.

The plan identifies the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

## **2 Testing**

All the feature of Web Monitor which were defined in software requirement specifications(SRS) are need to be tested

<b>Module Name</b>	<b>Applicable Roles</b>	<b>Description</b>
Access	Student/Employee	Allows user to access history.
Using Storage	Application	Allows plugin to store the data collected in chromeAPI localstorage.
View total Online Time	Manager Customer	View students/employees total online time
View websites Visited	Faculty/Manager	Allows teachers/managers to view the websites which the students/employees visited during online class/work hours.

View amount of time spent on a site	Faculty/Manager	Allows teachers/managers to view about time spent by a student/employee on a particular page
View AFK time	Faculty/Manager	Allows teachers/managers to view about AFK time spent by a student/employee
Download and add the product	Student/Employee	Allows them to download plugins
Access to track specific websites	Student/Employee	Give access to track specific websites
Backup data	Student/Employee	Backup the data
Switch Mode	Student/Employee	Can view the interface in light or dark mode
View percentage of total time spent on a website	Student/Employee	Can View percentage of total time spent on a website
View active tab	Student/Employee	Can View active tab
Setting	Student/Employee	Can change setting

Set inactivity Time Limit to stop tracking	Student/Employee	Can Set inactivity Time Limit to stop tracking
Export data stored to csv file	Student/Employee	Students/employee can export data stored to csv file
Clear all data	Student/Employee	Students/employee can clear all data
Set Notification	Student/Employee	Students/employee can be notified
Blacklist website	Student/Employee	Can block specific website
Restore data	Student/employee	Student can restore data
Count of number of times each website visited	Student/Employee	Students/employee can have count of number of times each website visited
Feedback	Student/Employee	User can give feedback to the developer

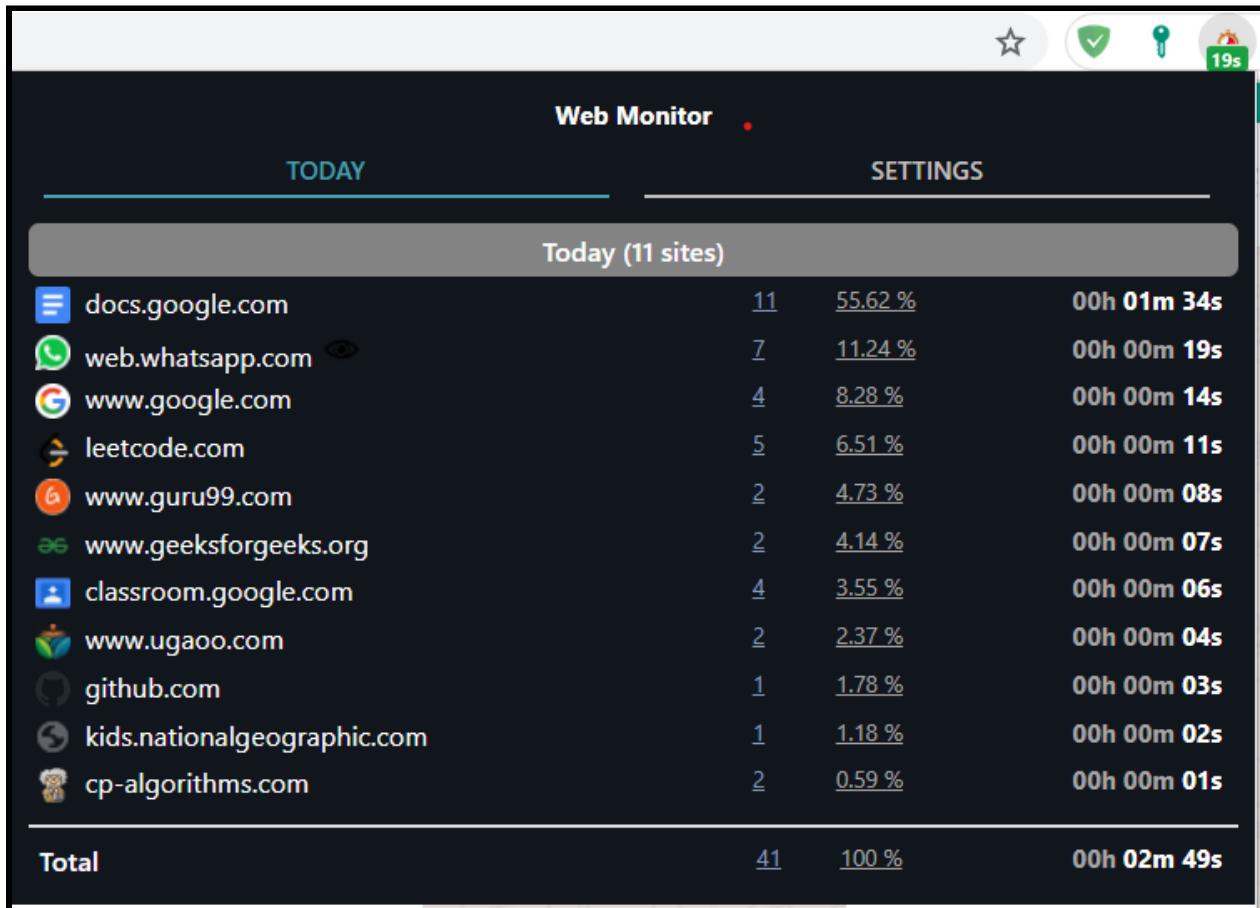
### 3 TESTING STRATEGY

## i) Unit Testing

The individual units or components of a software will be tested. The purpose is to validate that each unit of the software code performs as expected.

Test Case : Switch Mode

The image below shows that all this test case is passed



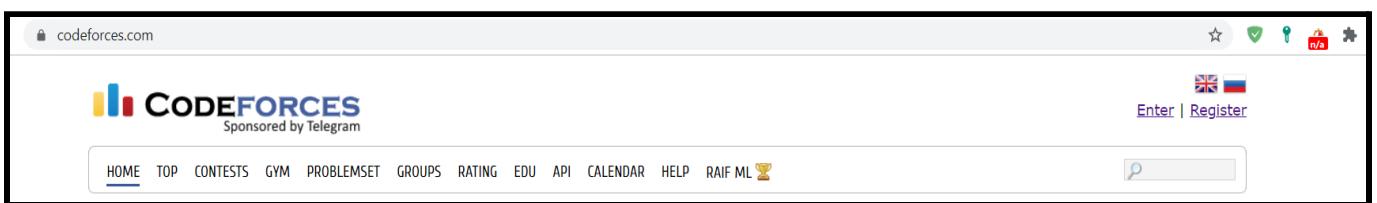
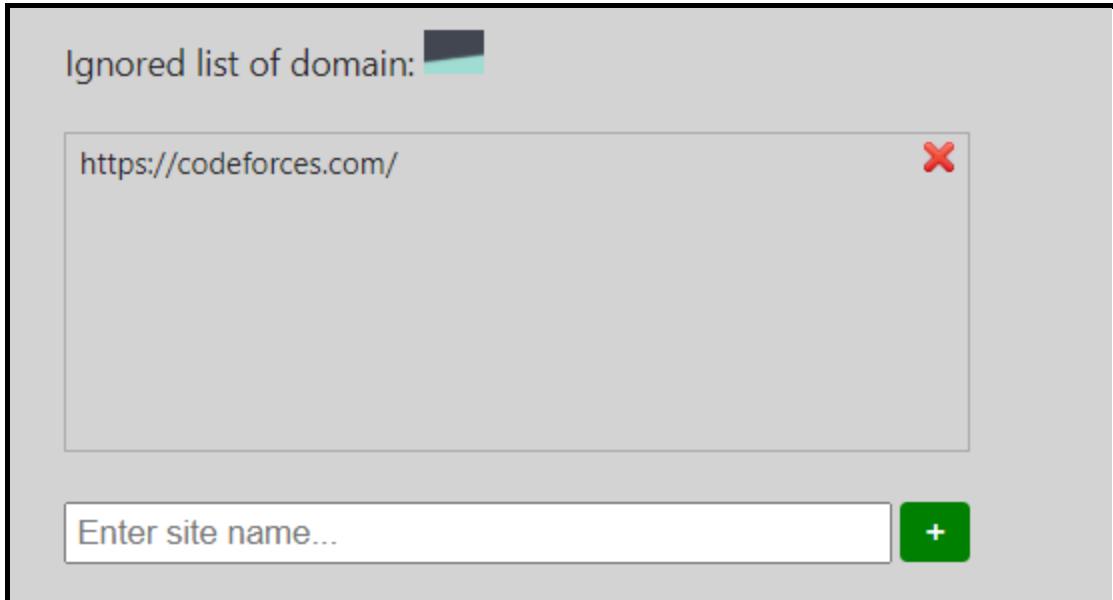
Test Cases: Total Online Time, View Active Tab, Count of number of times each website visited, View percentage of total time spent on a website, Settings

The image below shows that all these test cases are passed

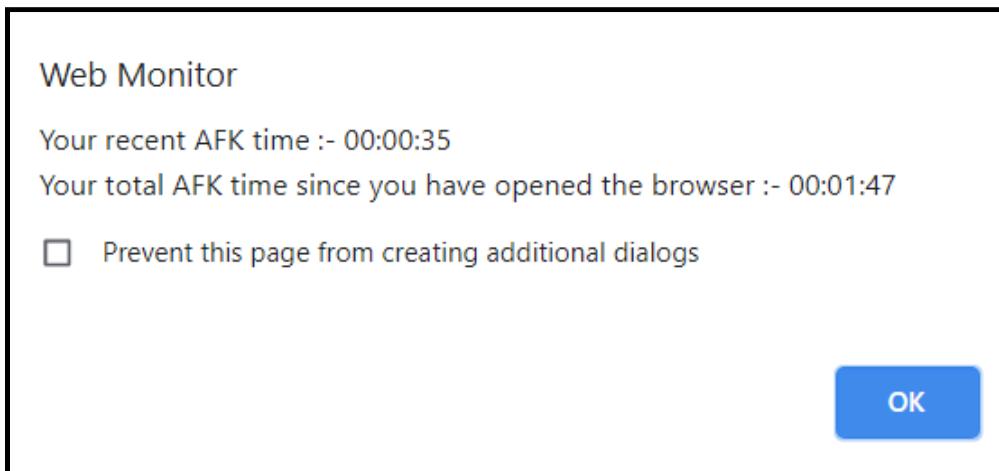
The screenshot shows the 'Web Monitor' application interface. At the top, there are several icons: a star, a green shield, a key, and a timer labeled '5m'. Below the header, the title 'Web Monitor' is centered. Underneath it, there are two tabs: 'TODAY' (which is underlined in blue) and 'SETTINGS'. A large, light-gray callout box spans most of the screen area below the tabs, containing the following data:

Today (11 sites)			
docs.google.com	16	79.15 %	00h 05m 15s
web.whatsapp.com	9	5.78 %	00h 00m 23s
www.google.com	4	3.52 %	00h 00m 14s
leetcode.com	5	2.76 %	00h 00m 11s
classroom.google.com	5	2.01 %	00h 00m 08s
www.guru99.com	2	2.01 %	00h 00m 08s
www.geeksforgeeks.org	2	1.76 %	00h 00m 07s
github.com	2	1.26 %	00h 00m 05s
www.ug�o.com	2	1.01 %	00h 00m 04s
kids.nationalgeographic.com	1	0.50 %	00h 00m 02s
cp-algorithms.com	2	0.25 %	00h 00m 01s
Total	50	100 %	00h 06m 38s

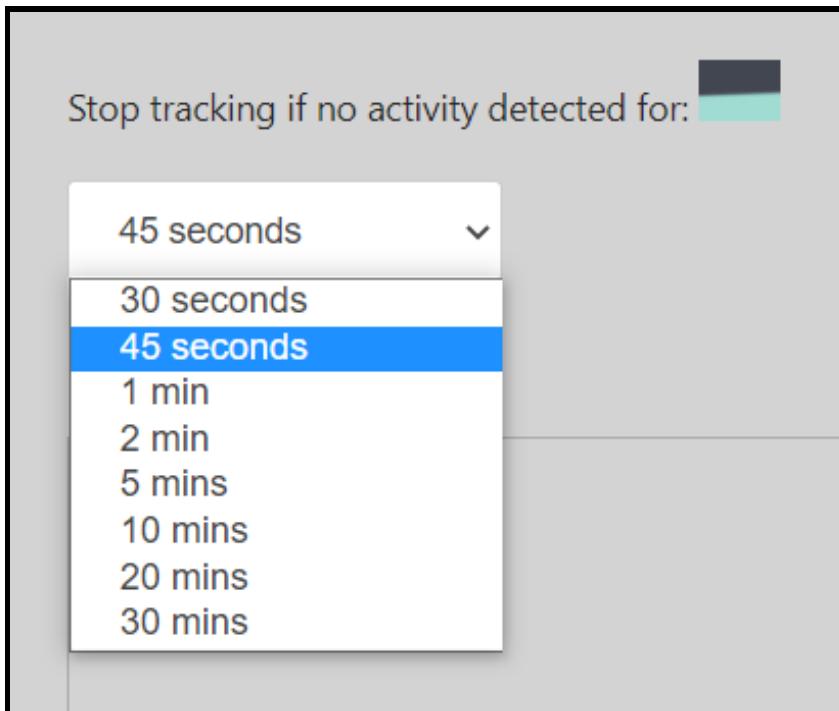
Test Case : Blacklist Website



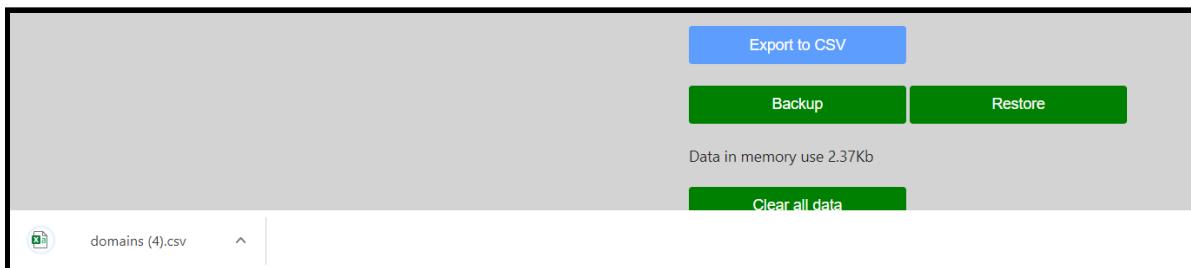
Test Case: View AFK Time



Test Case: Set inactivity Time Limit to stop tracking



Test Case: Export data to csv file



domains (4).csv - Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	domain	date	time(sec)										
2	web.what	5/21/2021	64										
3	classroom	5/21/2021	8										
4	github.con	5/21/2021	5										
5	docs.goog	5/21/2021	1470										
6	www.goo	5/21/2021	66										
7	www.guru	5/21/2021	8										
8	www.geek	5/21/2021	7										
9	cp-algorith	5/21/2021	1										
10	leetcode.c	5/21/2021	11										
11	www.ugac	5/21/2021	4										
12	kids.nation	5/21/2021	2										
13	mail.googl	5/21/2021	6										
14	support.gc	5/21/2021	5										
15	www.hack	5/21/2021	84										
16	www.hack	5/21/2021	135										
17	www.inter	5/21/2021	74										
18	www.cod	5/21/2021	60										
19	www.over	5/21/2021	47										

## Test Case: Feedback

Web Monitor

- Settings
- Limits
- Notifications
- About
- [Feedback](#)

You can support Web Monitor by giving feedback:

[Feedback](#)

## Feedback Form

Hello, we the team who developed Web Monitor request you to fill this feedback form which means a lot for us.

Please give your valuable views on our product 😊.

\* Required

Email \*

Your email

How will you describe yourself ?

- Student 🎓
- Employee 🏢
- Faculty 🎓
- Manager 🏢
- Other: \_\_\_\_\_

How do you rate our product on the basis of your experience of using it ?

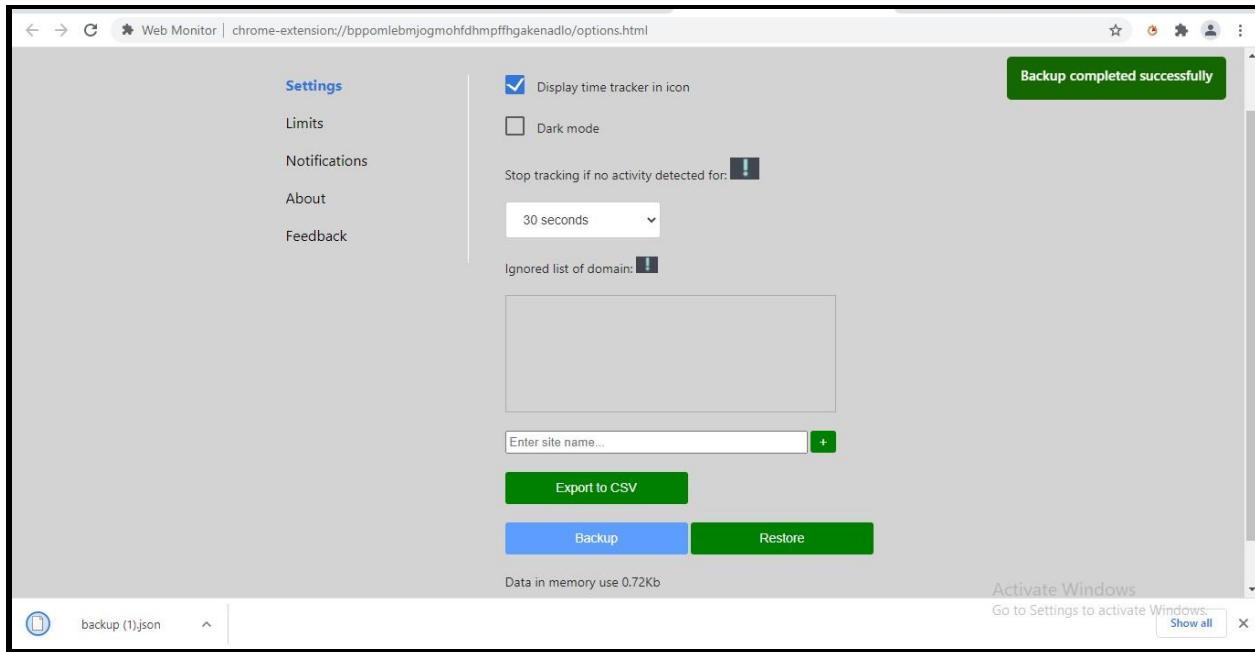
1      2      3      4      5

Very satisfactory                              Not satisfactory

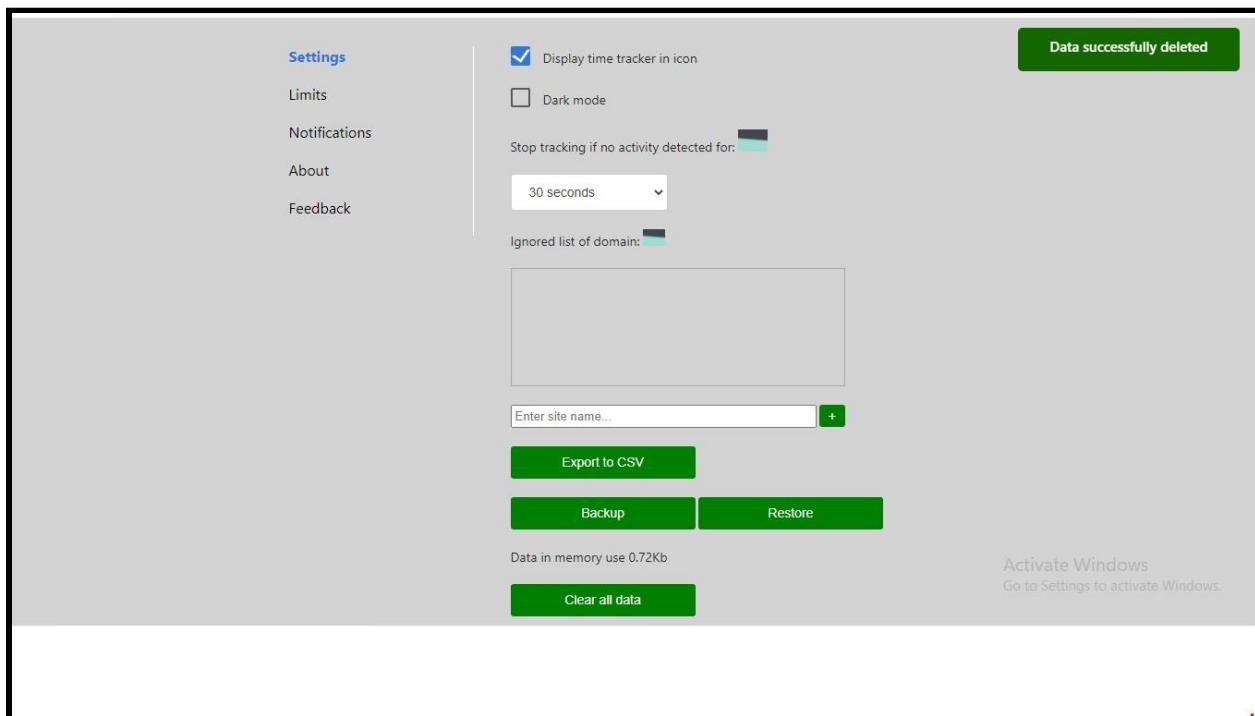
What did you like the best about our product?

Your answer

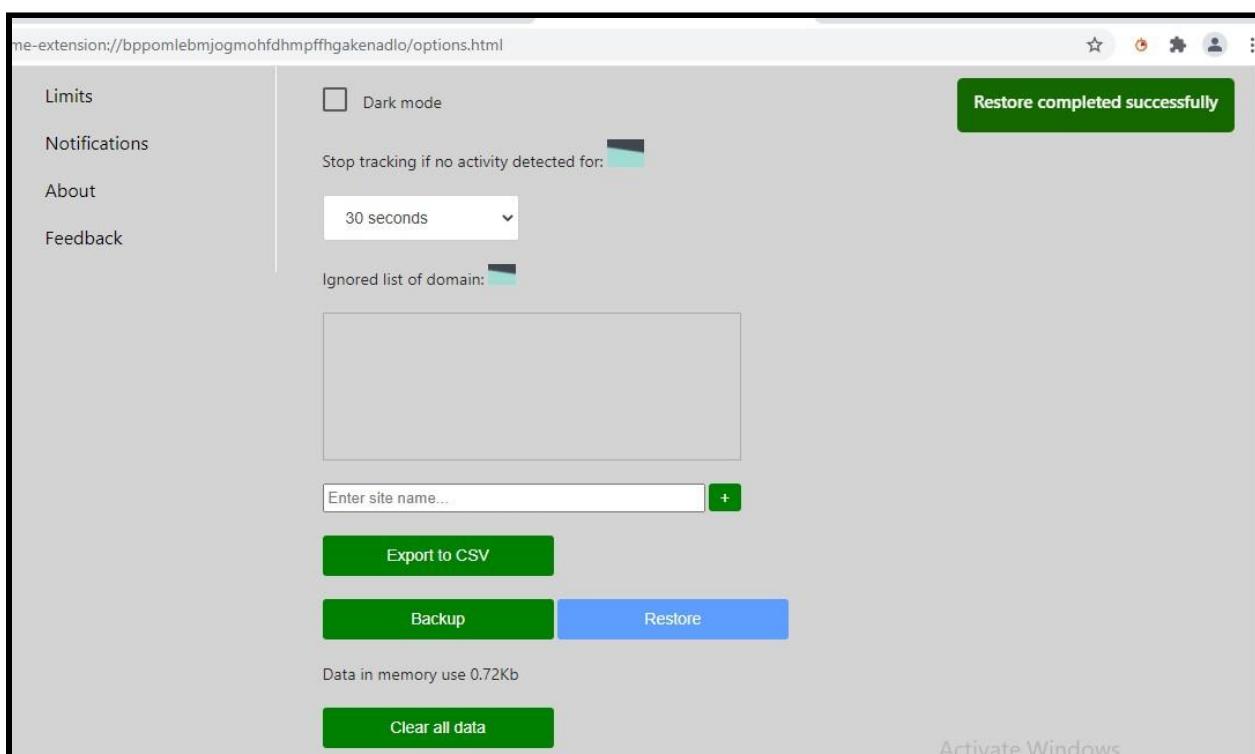
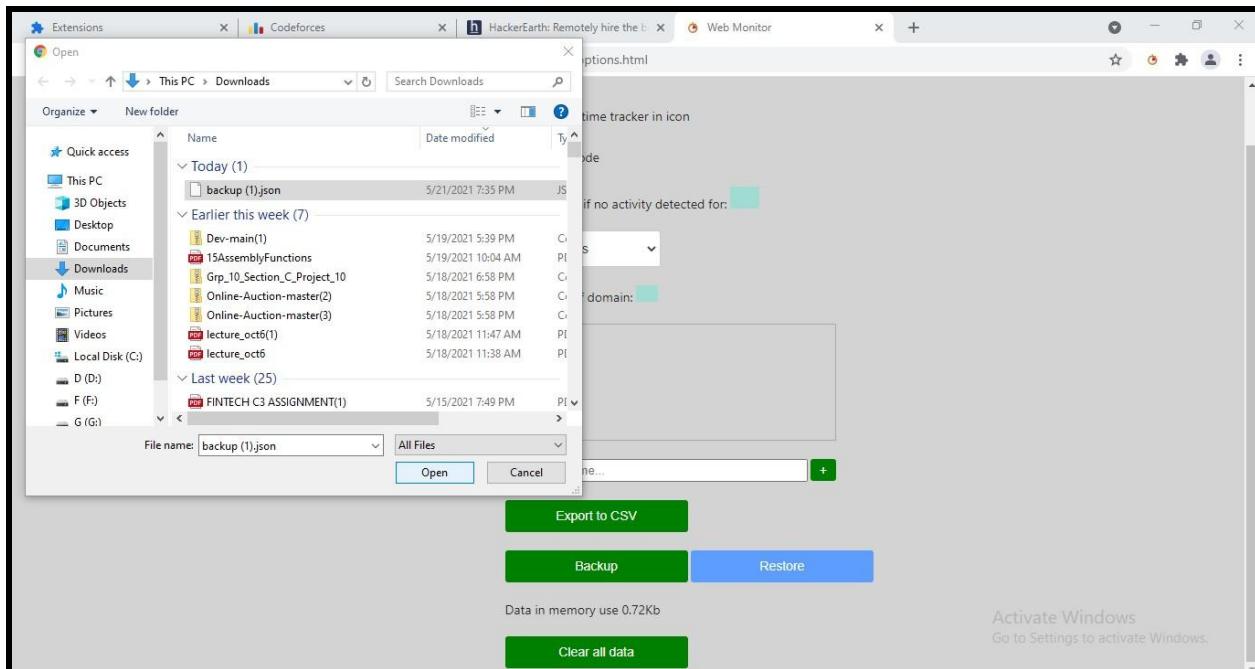
Test Case: Backup data



## Test Case: Clear all data



## Test Case: Restore data



## ii) Performance and Stress Testing

The testing will ensure applications to perform properly under their expected workload. The technique carried out will determine system performance in terms of sensitivity, reactivity and stability under a particular workload.

We tested Web Monitor for about 200+ websites and it works well.

Web Monitor			
TODAY	SETTINGS		
Today (201 sites)			
G www.google.com	44	31.44 %	00h 17m 31s
W www.britannica.com	4	1.73 %	00h 00m 58s
P www.pinterest.com	8	1.41 %	00h 00m 47s
editorial.rottentomatoes.com	5	1.29 %	00h 00m 43s
Y www.yatharthgeeta.com	2	1.17 %	00h 00m 39s
A www.animalplanet.com	2	1.02 %	00h 00m 34s
M www.merriam-webster.com	5	0.99 %	00h 00m 33s
H www.hindisahityadarpan.in	10	0.96 %	00h 00m 32s
B www.blogger.com	3	0.93 %	00h 00m 31s
I www.iskcondwarka.org	4	0.93 %	00h 00m 31s
W en.wikipedia.org	2	0.90 %	00h 00m 30s
E earth.google.com	1	0.90 %	00h 00m 30s
M www.managementstudyguide.com	2	0.90 %	00h 00m 30s
G github.com	3	0.81 %	00h 00m 27s
S solapur.gov.in	1	0.81 %	00h 00m 27s
G www.google.co.in	2	0.75 %	00h 00m 25s
Y www.yatra.com	1	0.75 %	00h 00m 25s
H www.homecentre.in	6	0.75 %	00h 00m 25s
Y in.yahoo.com	1	0.72 %	00h 00m 24s
C www.codecademy.com	4	0.72 %	00h 00m 24s
B www.housebeautiful.com	2	0.72 %	00h 00m 24s
R www.railystri.in	6	0.72 %	00h 00m 24s

The CSV export function can export data of 1000+ tabs so no problems there as well.



We tested our product on different browsers such as Microsoft Edge and it works well there also.

