

Below is the documentation for the Python script that monitors web browser activity and logs specific information for each visited website.

# Web Browser Activity Monitor

The "Web Browser Activity Monitor" is a Python script that allows you to monitor the activity of a web browser and log specific information for each visited website. The script uses the Selenium library to interact with the browser programmatically and capture relevant details.

## Features

- Logs the timestamp, website URL, page title, and total time duration users stay on each website.
- Gracefully handles exceptions and errors to ensure uninterrupted monitoring.
- Efficiently runs in the background without consuming excessive system resources.
- Logs the information in a well-formatted and easily readable log file.
- Uses the Chrome web browser in headless mode for monitoring.
- Supports additional features and enhancements for creative customization.

## Prerequisites

- Python 3.x installed on your system.
- ChromeDriver executable appropriate for your system downloaded and placed in the same directory as the script. (Download from: <https://sites.google.com/a/chromium.org/chromedriver/downloads>)
- Required Python libraries: Selenium.

## Installation

1. Clone the repository:

```
git clone <repository-url>
```

2. Install the required Python libraries

```
pip install selenium
```

3. Place the ChromeDriver executable in the same directory as the script.

## Usage

1. Open a terminal and navigate to the script's directory.
2. Run the script using Python:

```
python browser_activity_monitor.py
```

3. The script will start monitoring the browser's activity in the background.
4. To stop the monitoring and exit gracefully, press **Ctrl+C** in the terminal.

## Logging

The script logs the monitoring information in the "website\_activity.log" file in the script's directory. Each entry in the log file represents a visited website and contains the following details:

Timestamp	URL	Title	Duration
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- **Timestamp**: The date and time when the activity was recorded.
- **URL**: The URL of the website that the user visited.
- **Title**: The title of the web page being displayed.
- **Duration**: The total time duration the user stayed on the website in seconds.

## Note:

- Running the script continuously in the background may have resource implications on your system.
- Ensure compatibility with newer browser versions or changes in website structures to maintain robustness.

Disclaimer: Use this script responsibly and ensure you have proper authorization for monitoring browser activity.