NOX-BROWSER

V1.0.0.1

ABOUT

This is a basic web browser created using Python and PyQt5 which can browse URLs and store bookmarks and history. It hosts a special feature of reference mode that can be used to record the websites one has visited during a particular chosen period of time.

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Introduction

Programming languages: Python
Framework: PyQt5 and PyQt5 designer
Packages: QWebViewEngine, datetime, pyuic5

This project was done as a part of the Summer training cum internship program of MyWBUT and I am grateful to Nitish Singh sir for his guidance in this project.

The Entire project code can be viewed at:
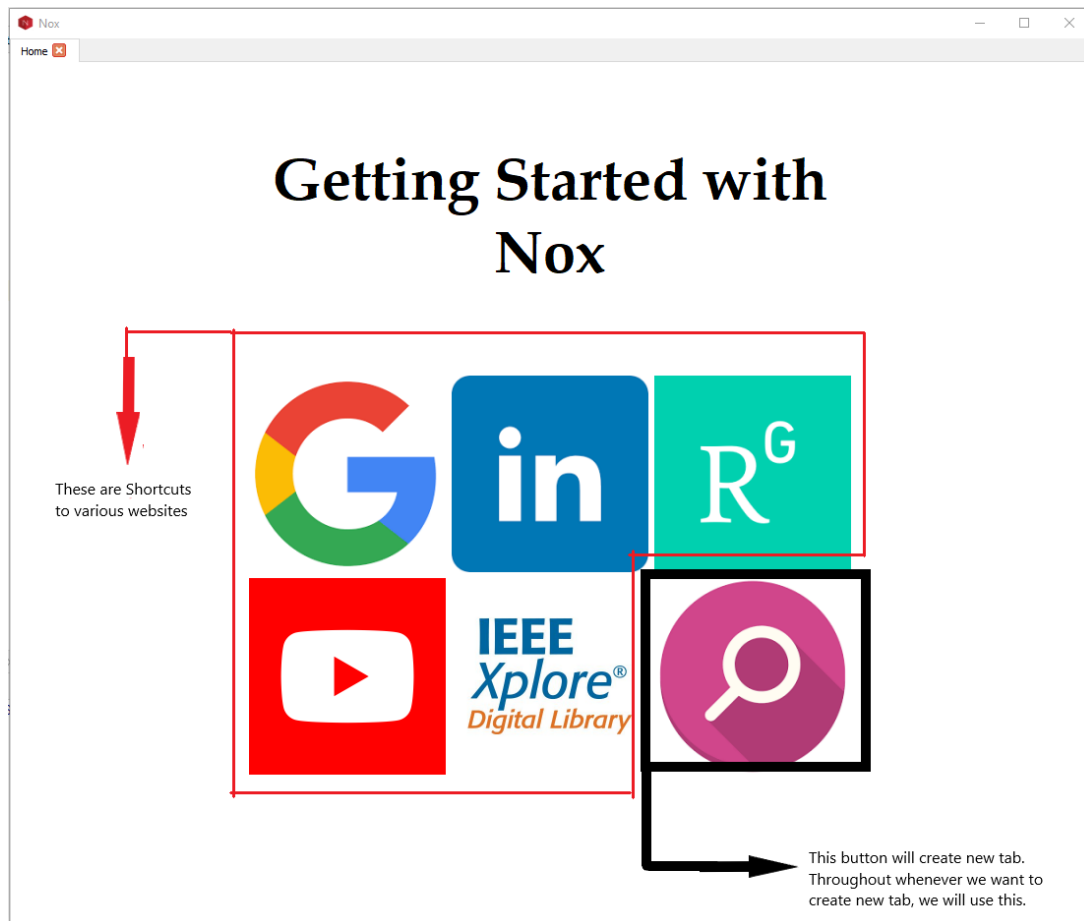*https://github.com/geetanjaliaich/Nox-Browser*
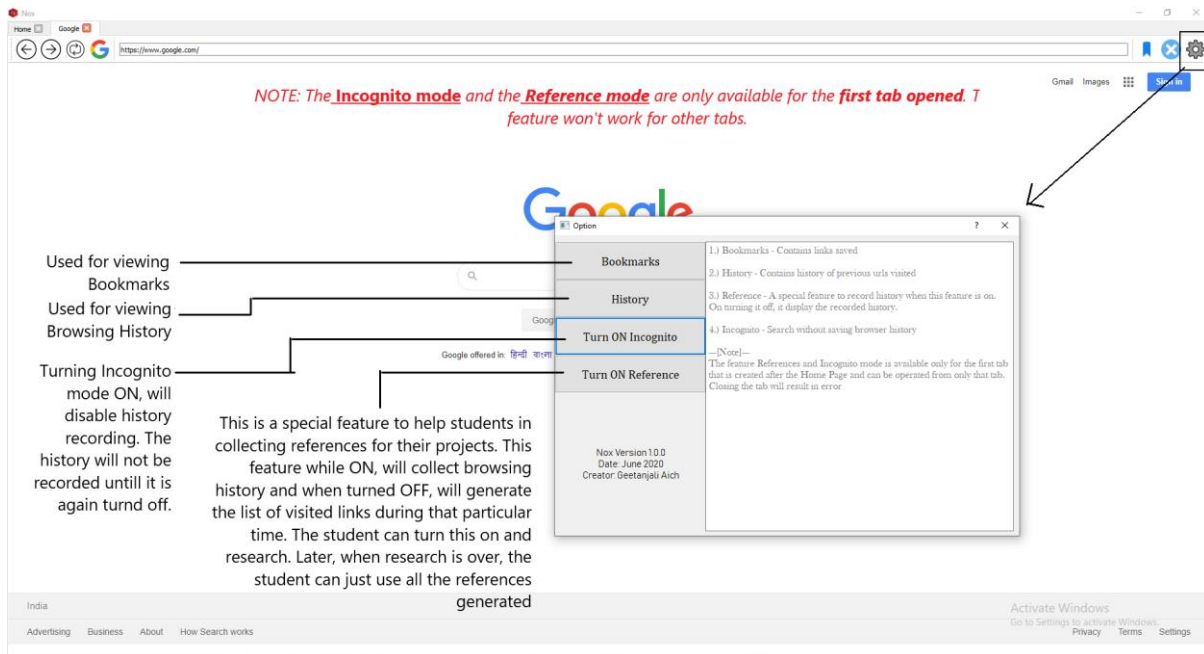
Features:

- **Reference Mode**: It has a special feature of Reference mode which when turned on will record the history for that duration and when turned off, will output the websites visited under reference heading. This feature is specially useful for students and researchers who often needs to write references in their project/research work. The user can turn on the feature and research and later turn it off when it's done. This feature is available for the first tab only (after home page)
- **Incognito Mode**: If the user wants, he/she can turn this mode on to stop browsing history to be recorded. This feature is available for the first tab only (after home page)
- **Bookmarks**: One can save URLs as bookmarks. The saved bookmarks are stored inside the Bookmark.txt file. One can clear bookmarks by clearing the content of this text file.
- **History**: Browsing history is recorded in the History.txt file. One can clear browsing history by clearing the content of this text file.
- One can browse URLs by entering the specific URL in the URL bar and hitting enter key.

Files:

- ***Images***: contains all the images required for the project to execute successfully. These images are taken from the google images site.
- ***Bookmarks.txt***: This text files store all the bookmarks that are saved during browsing. One can delete the bookmarks by deleting the contents of the file.
- ***History.txt***: This text file stores the history of browsing. One can delete history by deleting the contents of this file.
- ***Nox.py : [Main file of the project]*** On executing this file, the browser will start. One can see the home page at the beginning. Then on clicking any of the shortcuts or the tab create item, a new tab will be launched. Details is provided later.
- ***option_window_class2.py :*** This is a file that is useful for creating the dialog box once the options button(inside the tab) is clicked.

User Interface Guide

Getting Started with Nox

Nox

Home

These are Shortcuts to various websites

This button will create new tab. Throughout whenever we want to create new tab, we will use this.

Nox

Home   Google

https://www.google.com/

Home (Google)

Refresh

Forward

Back

URL bar for url entry. The user needs to write the url in the format starting with "www" if he wants to enter it manually and hit enter.

Gmail   Images   Sign in

Bookmark the current page. It is blue if the page has already been bookmarked

Cancel loading the current page.

Options Button. This contains all the options for viewing browsing history and Bookmarks.

Google

Google Search   I'm Feeling Lucky

Google offered in: हिन्दी বাংলা తెలుగు मराठी தமிழ் ગુજરાતી ಕನ್ನಡ മലയാളം ਪੰਜਾਬੀ

NOTE: The **Incognito mode** and the **Reference mode** are only available for the **first tab opened**. T feature won't work for other tabs.

Used for viewing Bookmarks

Used for viewing Browsing History

Turning Incognito mode ON, will disable history recording. The history will not be recorded untill it is again turnd off.

This is a special feature to help students in collecting references for their projects. This feature while ON, will collect browsing history and when turned OFF, will generate the list of visited links during that particular time. The student can turn this on and research. Later, when research is over, the student can just use all the references generated

Option

| Bookmarks |
| History |
| Turn ON Incognito |
| Turn ON Reference |

Nox Version 1.0.0
Date: June 2020
Creator: Geetanjali Aich

1.) Bookmarks - Contains links saved

2.) History - Contains history of previous urls visited

3.) Reference - A special feature to record history when this feature is on. On turning it off, it display the recorded history.

4.) Incognito - Search without saving browser history

---[Note]---
The feature References and Incognito mode is available only for the first tab that is created after the Home Page and can be operated from only that tab. Closing the tab will result in error

End of Documentation