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Report of Python project of my own browser

(Int213-python programming)

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Report of my own browser

Abstract : -

In today’s world, everywhere we see a lot of browser for surfing internet. Some of are Chrome, Microsoft edge, Opera, Brave etc………

Everyday lots of browser are launching in World. Making browser is not so tough but making it secure and a bag of lot of features and lot of collection. Here, In this in program, I made a simple browser using python.

Introduction : -

* 1. Context

This project is reported as per my course requirement[CSE].As per instructed by my INT213 faculty Ankita Wadhawan, this report is make on python project.

* 1. Why this?

The Idea & Motivation behind this project is while surfing on internet about lot of browser I came to conclusion that Every browser took collection of lot of personal data through their policies & End-user agreements. So I want my own browser that vanishes all the surfing data after closing of browser. Then I tried through Python using libraries and here I go…

Libraries : -

**PyQT5:-**

PyQt5 is a comprehensive set of Python bindings for Qt v5. It is implemented as more than 35 extension modules and enables Python to be used as an alternative application development language to C++ on all supported platforms including iOS and Android.

PyQt5 may also be embedded in C++ based applications to allow users of those applications to configure or enhance the functionality of those applications.

**PyQtWebEngine:-**

PyQtWebEngine is a set of Python bindings for The Qt Company’s Qt WebEngine framework. The framework provides the ability to embed web content in applications and is based on the Chrome browser. The bindings sit on top of PyQt5 and are implemented as three separate modules corresponding to the different libraries that make up the framework.

Os:-

The OS module in Python provides functions for interacting with the operating system. OS comes under Python’s standard utility modules. This module provides a portable way of using operating system-dependent functionality

Screenshots : -

Steps of coding and comments on coding part is along with the code.

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Explanation : -

PyQT is a widely used module which is used to make GUI applications with much ease. We can develop many complex GUI applications using PyQT very easily. It has a modern look and light user interface.

Difference between Search Engine and Web Browser

**Search Engine:** It is used to search the required information from the World Wide Web using a web browser. It actually allows us to search the internet.

**Web Browser:** It is used to access the World Wide Web / Internet.

**This python based web browser having the following features:**

* A Previous Button: to navigate to the previously visited site.
* A Next Button: to navigate to the next visited site.
* A Refresh Button: to reload the current site.
* A Search Bar: to load the entered url.
* A home button: to navigate back to home.

**Prerequisites to create a web browser:**

To install the required libraries, please use pip installer from the cmd prompt/Terminal:

**To install pyQT5:**

pip install PyQt5

**To install pyQtWebEngine**:

pip install PyQtWebEngine

conclusion : -

This is my total report on this project. I tried my best to deal with errors and problems during coding part and giving a fine coded program. After executing this code, a window of web browser open and we see our browser. This is a simple browser so it doesn’t support multiple tabs and extension features.

References : -

**To make this project following tools are used:**

* PyCharm
* Visual Studio Code
* PyQt5 library

**Website references:-**

* **Quora -** [**https://www.quora.com/How-do-I-make-a-web-browser-with-Python**](https://www.quora.com/How-do-I-make-a-web-browser-with-Python)
* **GeekforGeeks -** [**https://www.geeksforgeeks.org/creating-a-simple-browser-using-pyqt5/**](https://www.geeksforgeeks.org/creating-a-simple-browser-using-pyqt5/) **(sample)**
* **Stackoverflow -** [**https://stackoverflow.com/questions/tagged/pyqt5#:~:text=Cancel-,pyqt5,0**](https://stackoverflow.com/questions/tagged/pyqt5%23:~:text=Cancel-,pyqt5,0)