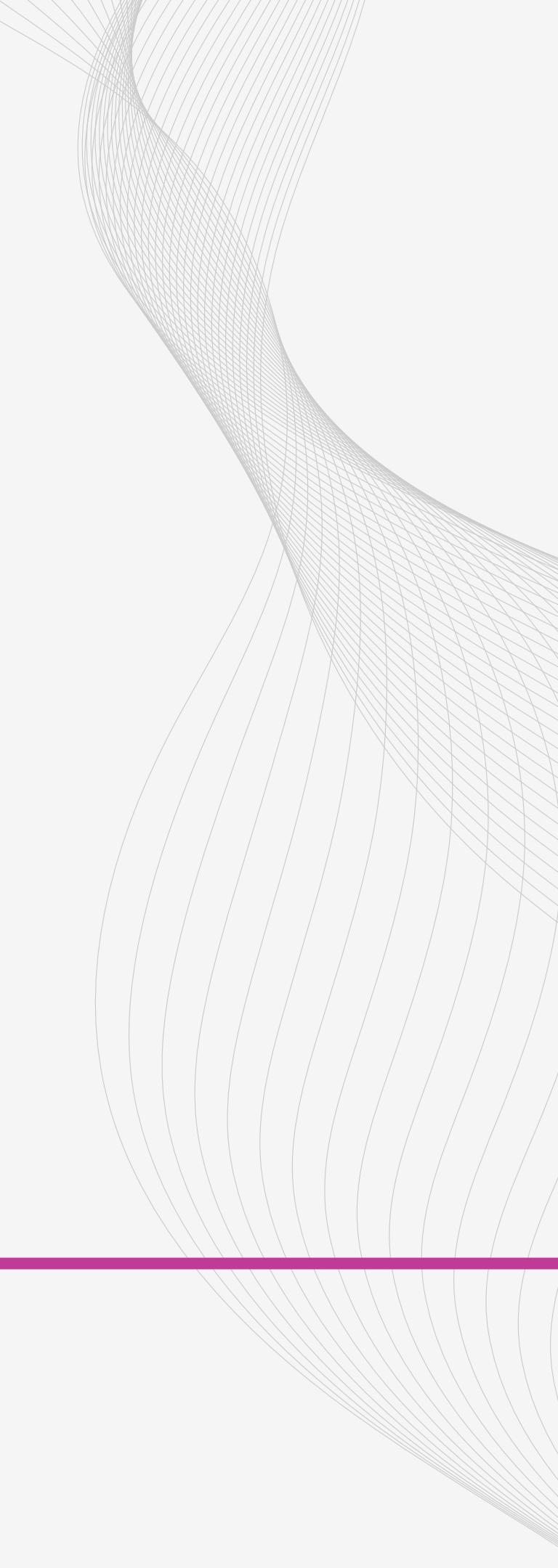


MYSCRAPPER

Python Screen Scrapping Project
using Playwright

Automating Data Extraction from Websites with GUI Interface



INTRODUCTION

- This project demonstrates automated web data extraction using Python and the Playwright library.
 - A GUI which allows users to interact with multiple scraping modes.
 - Data is extracted from public websites and saved locally.
 - Focuses on both open-access and login-required scraping workflows.
-

TECHNOLOGIES USED

- Python 3.11+
- Playwright – for browser automation (Chromium/Microsoft Edge)
- Tkinter – to display data in text box
- OpenPyXL – for saving data to Excel (optional)
- ConfigParser – for securely handling login credentials
- Webbrowser module – for opening scraped data in Edge
- HTML, CSS - to build the GUI

Problem Statement

- Manual data collection from websites is time-consuming, repetitive and error-prone.
- Many websites require user login or have dynamic JavaScript content, making traditional scraping ineffective.
- Need a reusable tool that:
 - Handles different scraping scenarios.
 - Supports user input and secure logins.
 - Provides output in a user-friendly format.

Proposed OBJECTIVES

- Automate scraping of structured data from websites.
- Handle both public and login-based scraping flows.
- Provide users with an interactive GUI interface.
- Display scraped data in a text box and excel sheet.
- Ensure compatibility with the web browser.

GUI

MYSCRAPER

Please select an option

1. Screen scrap Books to Scrape homepage & display in message box

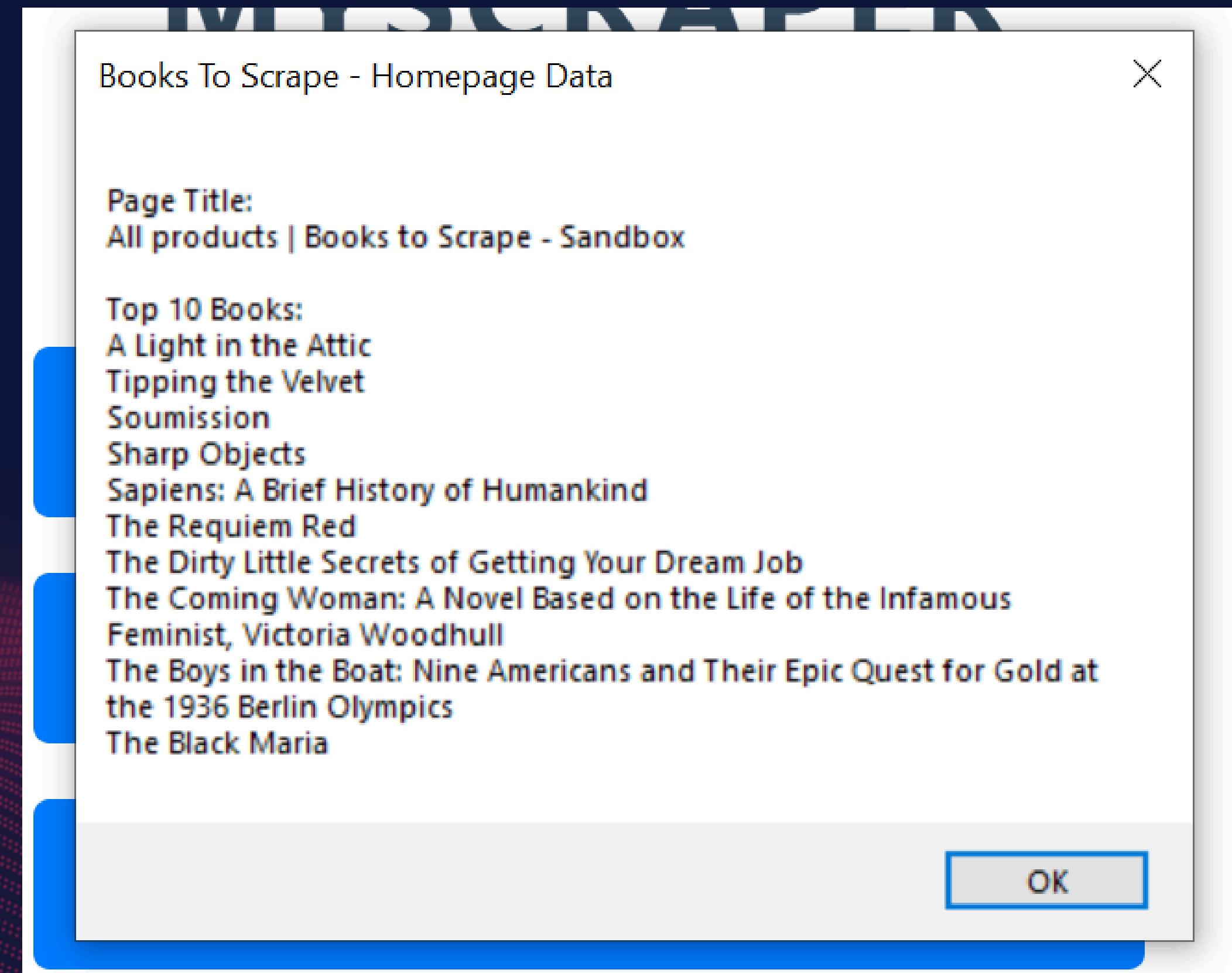
2. Screen scrap Books to Scrape homepage & save it in Excel file

3. Screen scrap OrangeHRM with credentials from config

4. Screen scrap OrangeHRM with user input

5. Exit

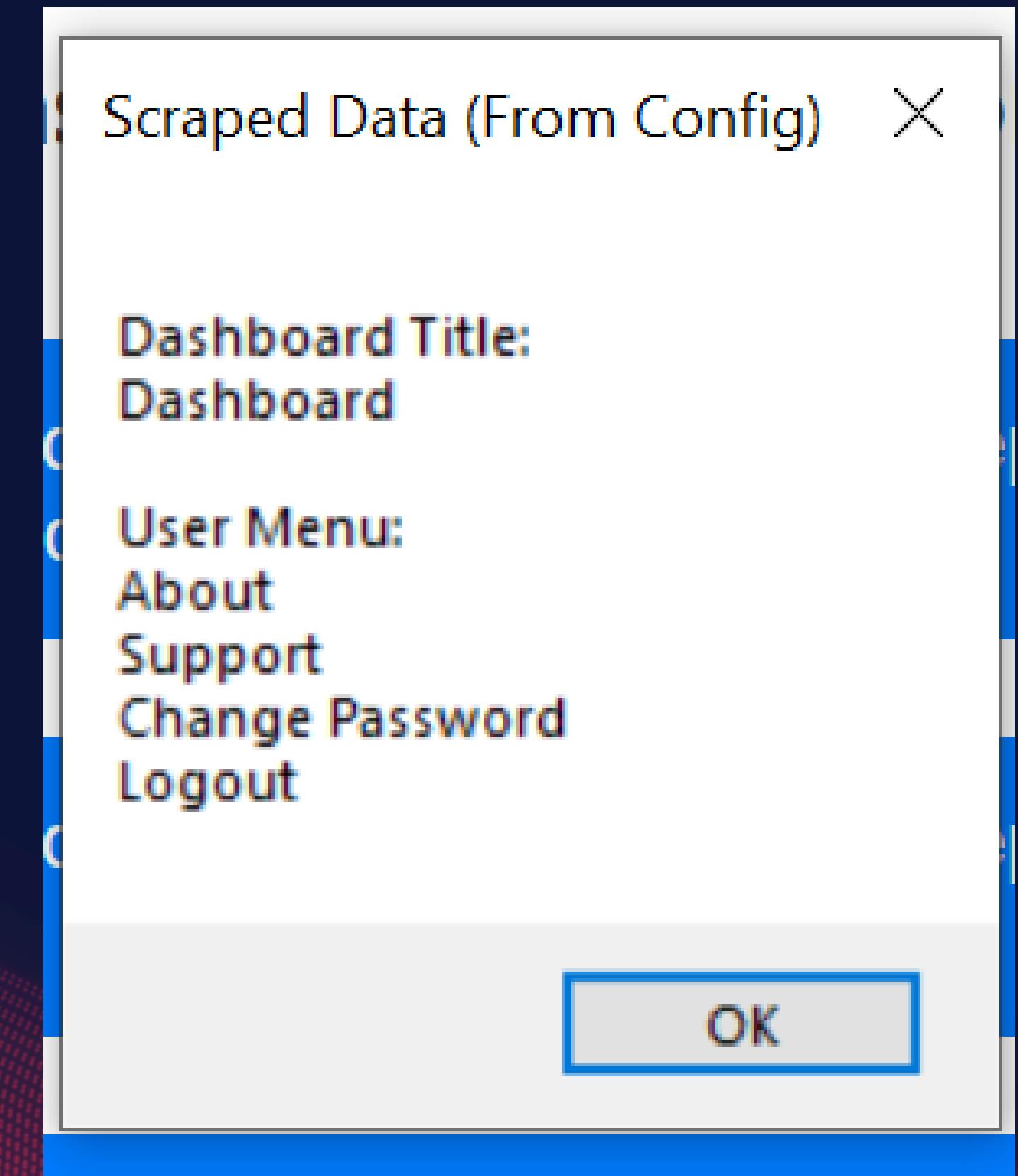
OUTPUT FOR Option 1



OUTPUT FOR Option 2

OUTPUT FOR Option 3

```
{} config.json > ...  
1  {  
2    "username": "Admin",  
3    "password": "admin123"  
4  }  
5
```



OUTPUT FOR

Option 4

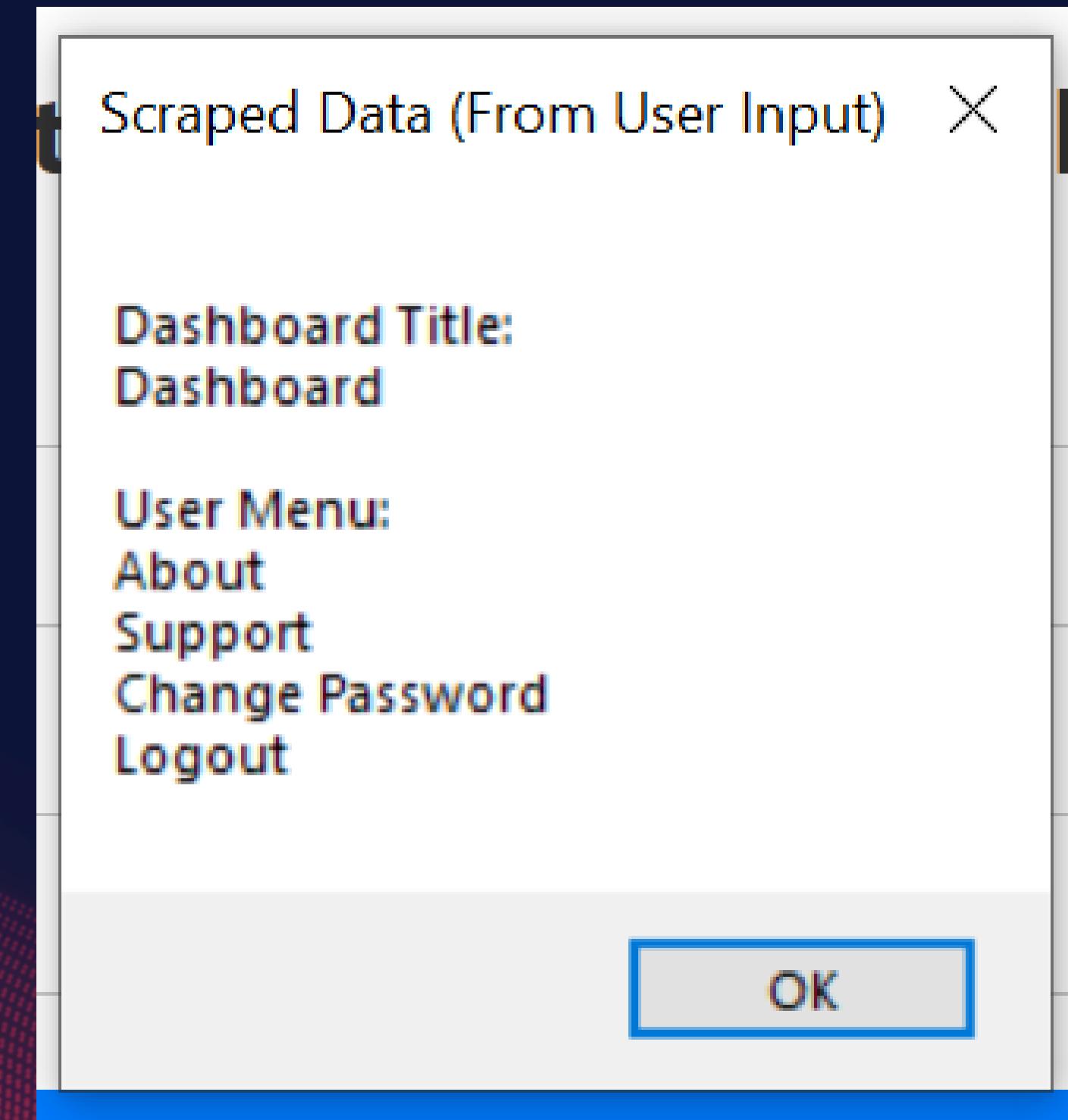
Enter Login Credentials

Username:
Admin

Password:
.....

Submit

[Back to menu](#)



OUTPUT FOR Option 5



Goodbye! Close this tab to exit.

KEY FEATURES

- User-friendly GUI with 5 options
- Headless and headful browser modes supported
- Compatible with modern JavaScript sites
- Dynamic login support
- HTML report generation with auto-open
- Reusable and scalable architecture

CONCLUSION

- The project achieves its goal of automating data collection using Playwright.
- It provides a simple, secure, and visual way to handle scraping tasks.
- Easily extensible for academic or business applications.





THANK YOU