

Web Scraper Tool

CODE :

```
import requests
from bs4 import BeautifulSoup
import threading
import tkinter as tk
from tkinter import scrolledtext, messagebox, filedialog
from tkinter import ttk # Import ttk for Progressbar
import time # Import time for sleep functionality

class WebScraperApp:
    def __init__(self, root):
        self.root = root
        self.root.title("Advanced Web Scraper")
        self.root.geometry("1000x700")
        self.root.configure(bg="#f0f0f0")

        # Title Label
        self.title_label = tk.Label(root, text="Web Scraper", bg="#f0f0f0",
font=("Arial", 24, "bold"))
        self.title_label.pack(pady=10)

        # Frame for input and buttons
        self.input_frame = tk.Frame(root, bg="#f0f0f0")
```

```
self.input_frame.pack(pady=20)
```

```
self.url_label = tk.Label(self.input_frame, text="Enter URL:",  
bg="#f0f0f0", font=("Arial", 12))
```

```
self.url_label.pack(side=tk.LEFT, padx=5)
```

```
self.url_entry = tk.Entry(self.input_frame, width=50,  
font=("Arial", 12))
```

```
self.url_entry.pack(side=tk.LEFT, padx=5)
```

```
self.delay_label = tk.Label(self.input_frame, text="Delay  
(seconds):", bg="#f0f0f0", font=("Arial", 12))
```

```
self.delay_label.pack(side=tk.LEFT, padx=5)
```

```
self.delay_entry = tk.Entry(self.input_frame, width=5,  
font=("Arial", 12))
```

```
self.delay_entry.pack(side=tk.LEFT, padx=5)
```

```
self.delay_entry.insert(0, "1") # Default delay of 1 second
```

```
self.scrape_button = tk.Button(self.input_frame, text="Scrape  
Data", command=self.start_scraping, bg="#4CAF50", fg="white",  
font=("Arial", 12))
```

```
self.scrape_button.pack(side=tk.LEFT, padx=5)
```

```
self.save_button = tk.Button(self.input_frame, text="Save  
Results", command=self.save_results, state=tk.DISABLED,  
bg="#2196F3", fg="white", font=("Arial", 12))
```

```
self.save_button.pack(side=tk.LEFT, padx=5)
```

```
# Progress Bar
```

```
self.progress = ttk.Progressbar(root, orient="horizontal",  
length=800, mode="determinate")
```

```
self.progress.pack(pady=20)
```

```
# Frame for output
```

```
self.output_frame = tk.Frame(root, bg="#f0f0f0")
```

```
self.output_frame.pack(pady=10)
```

```
# Links Output
```

```
self.links_label = tk.Label(self.output_frame, text="Found Links:",  
bg="#f0f0f0", font=("Arial", 14, "bold"))
```

```
self.links_label.grid(row=0, column=0, padx=10, sticky='w')
```

```
self.links_area = scrolledtext.ScrolledText(self.output_frame,  
width=50, height=15, font=("Arial", 12), bg="ffffff", wrap=tk.WORD)
```

```
self.links_area.grid(row=1, column=0, padx=10, pady=5)
```

```
# Images Output
```

```
self.images_label = tk.Label(self.output_frame, text="Found  
Images:", bg="#f0f0f0", font=("Arial", 14, "bold"))
```

```
self.images_label.grid(row=0, column=1, padx=10, sticky='w')

self.images_area = scrolledtext.ScrolledText(self.output_frame,
width=50, height=15, font=("Arial", 12), bg="#ffffff", wrap=tk.WORD)

self.images_area.grid(row=1, column=1, padx=10, pady=5)
```

Headings Output

```
self.headings_label = tk.Label(self.output_frame, text="Found
Headings:", bg="#f0f0f0", font=("Arial", 14, "bold"))

self.headings_label.grid(row=2, column=0, padx=10, sticky='w')

self.headings_area = scrolledtext.ScrolledText(self.output_frame,
width=50, height=15, font=("Arial", 12), bg="#ffffff", wrap=tk.WORD)

self.headings_area.grid(row=3, column=0, padx=10, pady=5)
```

Meta Tags Output

```
self.meta_tags_label = tk.Label(self.output_frame, text="Found
Meta Tags:", bg="#f0f0f0", font=("Arial", 14, "bold"))

self.meta_tags_label.grid(row=2, column=1, padx=10, sticky='w')

self.meta_tags_area =
scrolledtext.ScrolledText(self.output_frame, width=50, height=15,
font=("Arial", 12), bg="#ffffff", wrap=tk.WORD)

self.meta_tags_area.grid(row=3, column=1, padx=10, pady=5)
```

```
self.links = [] # Store scraped links
```

```
self.images = [] # Store scraped images
```

```
self.headings = [] # Store scraped headings
```

```

self.meta_tags = [] # Store scraped meta tags

def start_scraping(self):
    url = self.url_entry.get()
    if url:
        self.clear_output() # Clear previous results
        threading.Thread(target=self.scrape_data, args=(url,)).start()
    else:
        messagebox.showwarning("Input Error", "Please enter a valid URL.")

def clear_output(self):
    self.links.clear()
    self.images.clear()
    self.headings.clear()
    self.meta_tags.clear()
    self.links_area.delete(1.0, tk.END)
    self.images_area.delete(1.0, tk.END)
    self.headings_area.delete(1.0, tk.END)
    self.meta_tags_area.delete(1.0, tk.END)
    self.progress['value'] = 0 # Reset progress bar

def scrape_data(self, url):

```

```
delay = float(self.delay_entry.get()) # Get the delay from the  
input field
```

```
try:
```

```
    response = requests.get(url)
```

```
    response.raise_for_status() # Raise an error for bad responses
```

```
    soup = BeautifulSoup(response.text, 'html.parser')
```

```
    total_items = len(soup.find_all('a', href=True)) +  
len(soup.find_all('img', src=True)) + \  
        sum(len(soup.find_all(f'h{i}')) for i in range(1, 7)) + \  
        len(soup.find_all('meta'))
```

```
    current_item = 0
```

```
    # Scrape links
```

```
    for link in soup.find_all('a', href=True):
```

```
        self.links.append(link['href'])
```

```
        current_item += 1
```

```
        self.update_progress(current_item, total_items)
```

```
        time.sleep(delay) # Rate limiting
```

```
    # Scrape images
```

```
    for img in soup.find_all('img', src=True):
```

```
        self.images.append(img['src'])
```

```

        current_item += 1

        self.update_progress(current_item, total_items)

        time.sleep(delay) # Rate limiting

# Scrape headings
for i in range(1, 7): # h1 to h6
    for heading in soup.find_all(f'h{i}'):
        self.headings.append(heading.get_text(strip=True))

        current_item += 1

        self.update_progress(current_item, total_items)

        time.sleep(delay) # Rate limiting

# Scrape meta tags
for meta in soup.find_all('meta'):
    if 'name' in meta.attrs:
        self.meta_tags.append(f'{meta["name"]}:
{meta.get("content", "")}')

        current_item += 1

        self.update_progress(current_item, total_items)

        time.sleep(delay) # Rate limiting

self.display_results()

self.save_button.config(state=tk.NORMAL) # Enable save
button

```

```
except requests.exceptions.RequestException as e:
    messagebox.showerror("Error", f"An error occurred: {e}")
```

```
def update_progress(self, current, total):
    """Update the progress bar based on the current and total
    items."""
    progress_percentage = (current / total) * 100
    self.progress['value'] = progress_percentage
    self.root.update_idletasks()
```

```
def display_results(self):
    # Display links with numbering
    if self.links:
        for i, link in enumerate(self.links, start=1):
            self.links_area.insert(tk.END, f"{i}. {link}\n")
    else:
        self.links_area.insert(tk.END, "No links found.")

    # Display images with numbering
    if self.images:
        for i, img in enumerate(self.images, start=1):
            self.images_area.insert(tk.END, f"{i}. {img}\n")
    else:
        self.images_area.insert(tk.END, "No images found.")
```



```

# Display headings with numbering
if self.headings:
    for i, heading in enumerate(self.headings, start=1):
        self.headings_area.insert(tk.END, f"{i}. {heading}\n")
else:
    self.headings_area.insert(tk.END, "No headings found.")

# Display meta tags with numbering
if self.meta_tags:
    for i, meta in enumerate(self.meta_tags, start=1):
        self.meta_tags_area.insert(tk.END, f"{i}. {meta}\n")
else:
    self.meta_tags_area.insert(tk.END, "No meta tags found.")

def save_results(self):
    file_type = [('Text files', '*.txt'), ('CSV files', '*.csv')]
    file_path = filedialog.asksaveasfilename(defaultextension=".txt",
filetypes=file_type)

    if file_path:
        try:
            with open(file_path, 'w', newline='') as file:
                file.write("Found Links:\n")

```

```

        for i, link in enumerate(self.links, start=1):
            file.write(f"{i}. {link}\n")

        file.write("\nFound Images:\n")
        for i, img in enumerate(self.images, start=1):
            file.write(f"{i}. {img}\n")

        file.write("\nFound Headings:\n")
        for i, heading in enumerate(self.headings, start=1):
            file.write(f"{i}. {heading}\n")

        file.write("\nFound Meta Tags:\n")
        for i, meta in enumerate(self.meta_tags, start=1):
            file.write(f"{i}. {meta}\n")

        messagebox.showinfo("Success", "Results saved
successfully.")

    except Exception as e:
        messagebox.showerror("Error", f"An error occurred while
saving: {e}")

if __name__ == "__main__":
    root = tk.Tk()
    app = WebScraperApp(root)

```

```
root.mainloop()
```

Code Breakdown :

1. Importing Required Libraries

Code : import requests

```
from bs4 import BeautifulSoup
```

```
import threading
```

```
import tkinter as tk
```

```
from tkinter import scrolledtext, messagebox, filedialog
```

```
from tkinter import ttk # Import ttk for Progressbar
```

```
import time # Import time for sleep functionality
```

- **requests:** A library for making HTTP requests to fetch web pages.
- **BeautifulSoup:** A library for parsing HTML and XML documents, allowing easy extraction of data.
- **threading:** A module that allows the creation of threads, enabling concurrent execution of code.
- **tkinter:** A standard GUI toolkit in Python for creating graphical user interfaces.
- **scrolledtext:** A widget in tkinter that provides a text area with a scrollbar.

- **messagebox**: A module in tkinter for displaying message boxes.
- **filedialog**: A module in tkinter for opening file dialogs.
- **ttk**: A module in tkinter that provides themed widgets, including the Progressbar.
- **time**: A module that provides various time-related functions, including sleep.

2. Class Definition

Code : class WebScrapApp:

- Defines a class named **WebScrapApp** that encapsulates the entire web scraper application.

3. Initialization Method

Code : def __init__(self, root):

- The constructor method initializes the application and sets up the GUI components.

Code : self.root = root

self.root.title("Advanced Web Scraper")

self.root.geometry("1000x700")

self.root.configure(bg="#f0f0f0")

- **self.root**: Stores the main window reference.
- **title**: Sets the title of the window.

- **geometry**: Sets the size of the window to 1000x700 pixels.
- **configure**: Sets the background color of the window.

4. Title Label

Code : `self.title_label = tk.Label(root, text="Web Scraper",
bg="#f0f0f0", font=("Arial", 24, "bold"))
self.title_label.pack(pady=10)`

- Creates a label widget displaying "Web Scraper" with a specified background color and font size, and adds it to the window with padding.

5. Input Frame

Code : `self.input_frame = tk.Frame(root, bg="#f0f0f0")
self.input_frame.pack(pady=20)`

- Creates a frame to hold input widgets and buttons, and adds it to the main window.

6. URL Input

Code : `self.url_label = tk.Label(self.input_frame, text="Enter URL:",
bg="#f0f0f0", font=("Arial", 12))
self.url_label.pack(side=tk.LEFT, padx=5)`

`self.url_entry = tk.Entry(self.input_frame, width=50,
font=("Arial", 12))`

```
self.url_entry.pack(side=tk.LEFT, padx=5)
```

- Creates a label and an entry field for the user to input the URL to scrape.

7. Delay Input

Code : `self.delay_label = tk.Label(self.input_frame, text="Delay (seconds):", bg="#f0f0f0", font=("Arial", 12))`

```
self.delay_label.pack(side=tk.LEFT, padx=5)
```

```
self.delay_entry = tk.Entry(self.input_frame, width=5,  
font=("Arial", 12))
```

```
self.delay_entry.pack(side=tk.LEFT, padx=5)
```

```
self.delay_entry.insert(0, "1")
```

- Creates a label and an entry field for the user to specify a delay (in seconds) between requests, with a default value of 1 second.

8. Scrape Button

Code : `self.scrape_button = tk.Button(self.input_frame, text="Scrape Data", command=self.start_scraping, bg="#4CAF50", fg="white", font=("Arial", 12))`

```
self.scrape_button.pack(side=tk.LEFT, padx=5)
```

- Creates a button that, when clicked, will start the scraping process by calling the **start_scraping** method.

9. Save Button

Code : `self.save_button = tk.Button(self.input_frame, text="Save Results", command=self.save_results, state=tk.DISABLED, bg="#2196F3", fg="white", font=("Arial", 12))`

`self.save_button.pack(side=tk.LEFT, padx=5)`

- Creates a button to save the scraped results, initially disabled until scraping is complete.

10. Progress Bar

Code : `self.progress = ttk.Progressbar(root, orient="horizontal", length=800, mode="determinate")`

`self.progress.pack(pady=20)`

- Creates a horizontal progress bar to visually indicate the scraping progress.

11. Output Frame

Code : `self.output_frame = tk.Frame(root, bg="#f0f0f0")`

`self.output_frame.pack(pady=10)`

- Creates a frame to hold output widgets for displaying the scraped data.

12. Links Output

Code : `self.links_label = tk.Label(self.output_frame, text="Found Links:", bg="#f0f0f0", font=("Arial", 14, "bold"))`

`self.links_label.grid(row=0, column=0, padx=10, sticky='w')`

`self.links_area = scrolledtext.ScrolledText(self.output_frame, width=50, height=15, font=("Arial", 12), bg="ffffff", wrap=tk.WORD)`

`self.links_area.grid(row=1, column=0, padx=10, pady=5)`

- Creates a label and a scrolled text area to display the found links.

13. Images Output

Code : `self.images_label = tk.Label(self.output_frame, text="Found Images:", bg="#f0f0f0", font=("Arial", 14, "bold"))`

`self.images_label.grid(row=0, column=1, padx=10, sticky='w')`

`self.images_area =
scrolledtext.ScrolledText(self.output_frame, width=50, height=15,
font=("Arial", 12), bg="ffffff", wrap=tk.WORD)`

`self.images_area.grid(row=1, column=1, padx=10, pady=5)`

- Creates a label and a scrolled text area to display the found images.

14. Headings Output

Code : `self.headings_label = tk.Label(self.output_frame, text="Found Headings:", bg="#f0f0f0", font=("Arial", 14, "bold"))`


```

        self.headings_label.grid(row=2, column=0, padx=10,
sticky='w')

        self.headings_area =
scrolledtext.ScrolledText(self.output_frame, width=50, height=15,
font=("Arial", 12), bg="#ffffff", wrap=tk.WORD)

        self.headings_area.grid(row=3, column=0, padx=10, pady=5)

```

- Creates a label and a scrolled text area to display the found headings.

15. Meta Tags Output

Code : self.meta_tags_label = tk.Label(self.output_frame,
text="Found Meta Tags:", bg="#f0f0f0", font=("Arial", 14, "bold"))

```

        self.meta_tags_label.grid(row=2, column=1, padx=10,
sticky='w')

        self.meta_tags_area =
scrolledtext.ScrolledText(self.output_frame, width=50, height=15,
font=("Arial", 12), bg="#ffffff", wrap=tk.WORD)

        self.meta_tags_area.grid(row=3, column=1, padx=10, pady=5)

```

- Creates a label and a scrolled text area to display the found meta tags.

16. Data Storage

Code : self.links = []

```

        self.images = []

```

```
self.headings = []
```

```
self.meta_tags = []
```

- Initializes empty lists to store the scraped data.

17. Start Scraping Method

Code : `def start_scraping(self):`

```
    url = self.url_entry.get()
```

```
    if url:
```

```
        self.clear_output() # Clear previous results
```

```
        threading.Thread(target=self.scrape_data,
args=(url,)).start()
```

```
    else:
```

```
        messagebox.showwarning("Input Error", "Please
enter a valid URL.")
```

- Retrieves the URL from the entry field.
- If a valid URL is provided, it clears previous results and starts a new thread to run the **scrape_data** method.
- If no URL is provided, it shows a warning message.

18. Clear Output Method

Code : `def clear_output(self):`

```
    self.links.clear()
```

```
    self.images.clear()
```

```
    self.headings.clear()
```

```
self.meta_tags.clear()
self.links_area.delete(1.0, tk.END)
self.images_area.delete(1.0, tk.END)
self.headings_area.delete(1.0, tk.END)
self.meta_tags_area.delete(1.0, tk.END)
self.progress['value'] = 0 # Reset progress bar
```

- Clears the lists that store scraped data.
- Clears the text areas displaying the results.
- Resets the progress bar to 0.

19. Scrape Data Method

Code : def scrape_data(self, url):

```
    delay = float(self.delay_entry.get())
    try:
        response = requests.get(url)
        response.raise_for_status() # Raise an error for bad
responses
        soup = BeautifulSoup(response.text, 'html.parser')
```

- Retrieves the delay value from the input field.
- Makes an HTTP GET request to the specified URL.
- Raises an error if the response status is not successful (e.g., 404 or 500).

- Parses the HTML content of the page using BeautifulSoup.

20. Total Items Calculation

Code : `total_items = len(soup.find_all('a', href=True)) +
len(soup.find_all('img', src=True)) + \
sum(len(soup.find_all(f'h{i}')) for i in range(1, 7)) + \
len(soup.find_all('meta'))`

- Calculates the total number of items to scrape (links, images, headings, and meta tags) for progress tracking.

21. Current Item Counter

Code : `current_item = 0`

- Initializes a counter to keep track of the number of items scraped.

22. Scraping Links

Code : `for link in soup.find_all('a', href=True):
 self.links.append(link['href'])
 current_item += 1
 self.update_progress(current_item, total_items)
 time.sleep(delay) # Rate limiting`

- Iterates through all anchor tags (<a>) with an **href** attribute.
- Appends each link to the **self.links** list.
- Increments the **current_item** counter.
- Calls **update_progress** to update the progress bar.
- Sleeps for the specified delay to avoid overwhelming the server.

23. Scraping Images

Code : for img in soup.find_all('img', src=True):

```
    self.images.append(img['src'])
```

```
    current_item += 1
```

```
    self.update_progress(current_item, total_items)
```

```
    time.sleep(delay) # Rate limiting
```

- Similar to the links, but iterates through all image tags () with a **src** attribute and appends the image sources to **self.images**.

24. Scraping Headings

Code : for i in range(1, 7): # h1 to h6

```
    for heading in soup.find_all(f'h{i}'):

```

```
        self.headings.append(heading.get_text(strip=True))

```

```
        current_item += 1

```

```
        self.update_progress(current_item, total_items)
```

```
time.sleep(delay)
```

- Iterates through heading tags (<h1> to <h6>).
- Appends the text content of each heading to **self.headings**.

25. Scraping Meta Tags

Code : for meta in soup.find_all('meta'):

```
    if 'name' in meta.attrs:
```

```
        self.meta_tags.append(f"{meta['name']}:  
{meta.get('content', '')}")
```

```
        current_item += 1
```

```
        self.update_progress(current_item, total_items)
```

```
        time.sleep(delay)
```

- Iterates through all meta tags and appends their name and content to **self.meta_tags**.

26. Display Results and Enable Save Button

Code : self.display_results()

```
        self.save_button.config(state=tk.NORMAL) # Enable save  
button
```

- Calls the **display_results** method to show the scraped data in the GUI.
- Enables the save button to allow the user to save the results.

27. Exception Handling

Code : except requests.exceptions.RequestException as e:

```
    messagebox.showerror("Error", f"An error occurred: {e}")
```

- Catches any exceptions that occur during the HTTP request and displays an error message.

28. Update Progress Method

Code : def update_progress(self, current, total):

```
    progress_percentage = (current / total) * 100
```

```
    self.progress['value'] = progress_percentage
```

```
    self.root.update_idletasks() # Update the GUI
```

- Calculates the percentage of progress based on the current and total items.
- Updates the progress bar value.
- Calls **update_idletasks** to refresh the GUI.

29. Display Results Method

Code : def display_results(self):

```
    if self.links:
```

```
        for i, link in enumerate(self.links, start=1):
```

```
            self.links_area.insert(tk.END, f"{i}. {link}\n")
```

```
    else:
```

```
        self.links_area.insert(tk.END, "No links found.")
```

- Displays the scraped links in the corresponding text area, numbering them.
- If no links are found, it displays a message indicating that.

30. Display Images, Headings, and Meta Tags

Code : if self.images:

```
    for i, img in enumerate(self.images, start=1):  
        self.images_area.insert(tk.END, f"{i}. {img}\n")
```

else:

```
    self.images_area.insert(tk.END, "No images found.")
```

if self.headings:

```
    for i, heading in enumerate(self.headings, start=1):  
        self.headings_area.insert(tk.END, f"{i}. {heading}\n")
```

else:

```
    self.headings_area.insert(tk.END, "No headings found.")
```

if self.meta_tags:

```
    for i, meta in enumerate(self.meta_tags, start=1):  
        self.meta_tags_area.insert(tk.END, f"{i}. {meta}\n")
```

else:

```
    self.meta_tags_area.insert(tk.END, "No meta tags found.")
```


- Similar to links, it displays images, headings, and meta tags in their respective text areas, numbering them and providing messages if none are found.

31. Save Results Method

Code : def save_results(self):

```

        file_type = [('Text files', '*.txt'), ('CSV files', '*.csv')]
        file_path =
filedialog.asksaveasfilename(defaultextension=".txt",
filetypes=file_type)
```

- Opens a file dialog to allow the user to choose a location and filename to save the results, with options for text or CSV files.

32. Writing to File

Code : if file_path:

try:

with open(file_path, 'w', newline='') as file:

file.write("Found Links:\n")

for i, link in enumerate(self.links, start=1):

file.write(f"{i}. {link}\n")

file.write("\nFound Images:\n")

for i, img in enumerate(self.images, start=1):

```

        file.write(f"{i}. {img}\n")

    file.write("\nFound Headings:\n")
    for i, heading in enumerate(self.headings,
start=1):

        file.write(f"{i}. {heading}\n")

    file.write("\nFound Meta Tags:\n")
    for i, meta in enumerate(self.meta_tags,
start=1):

        file.write(f"{i}. {meta}\n")

```

- If a valid file path is provided, it opens the file in write mode and writes the scraped results (links, images, headings, and meta tags) to the file.

33. Success Message

```

Code : messagebox.showinfo("Success", "Results saved
successfully.")

```

```

    except Exception as e:

        messagebox.showerror("Error", f"An error occurred while
saving: {e}")

```

- Displays a success message if the results are saved successfully.
- Catches any exceptions during the file writing process and shows an error message.

34. Main Execution Block

Code : `if __name__ == "__main__":`

`root = tk.Tk()`

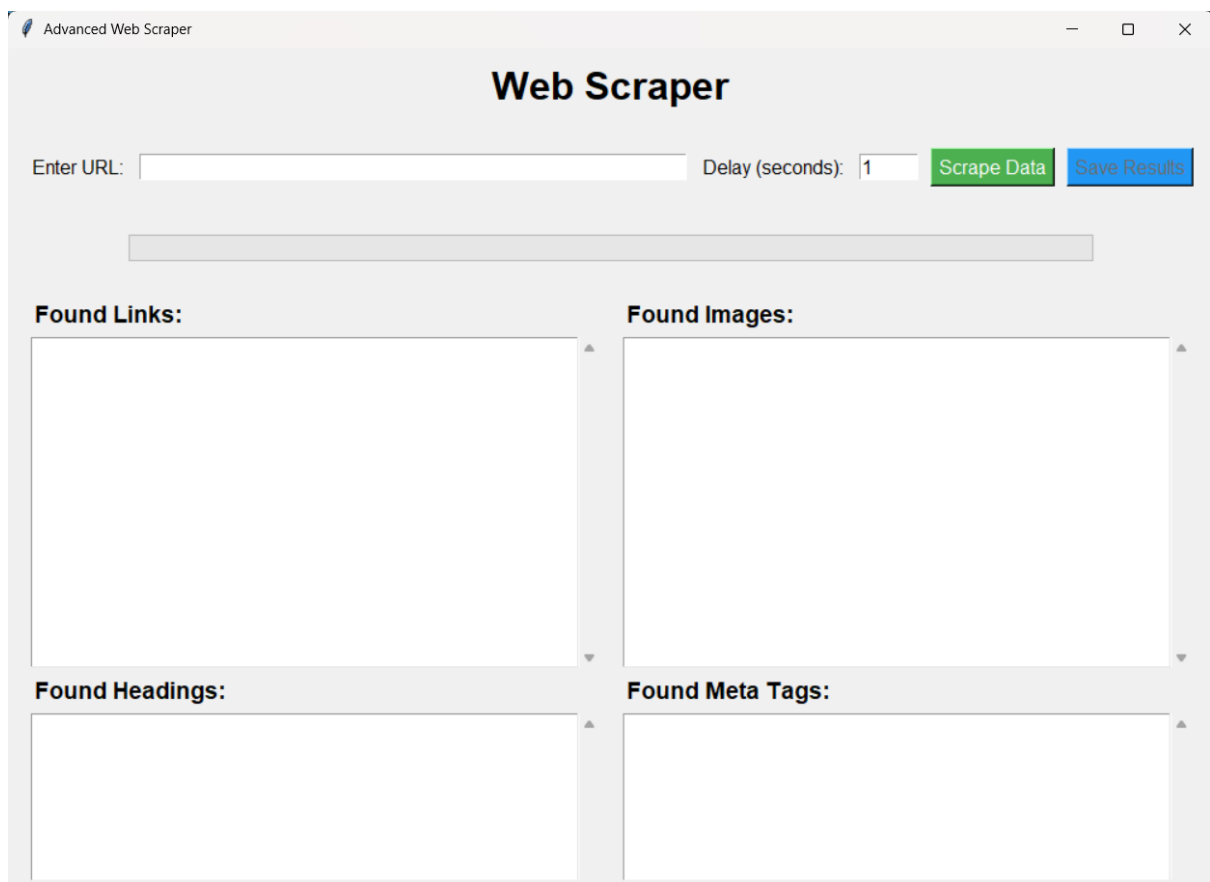
`app = WebScraperApp(root)`

`root.mainloop()`

- Checks if the script is being run directly (not imported).
- Creates the main Tkinter window.
- Instantiates the **WebScraperApp** class, which sets up the GUI.
- Enters the Tkinter main loop, waiting for user interaction.

Screenshots :

i. This image shows gui of web scraper tool



- ii. In this image Microsoft.com is set as URL and delay is set 0 second

The image shows a web application window titled "Advanced Web Scraper". The main heading is "Web Scraper". Below the heading, there is a form with two input fields: "Enter URL:" and "Delay (seconds):". The "Enter URL:" field contains the text "https://microsoft.com". The "Delay (seconds):" field contains the text "0". To the right of these fields are two buttons: "Scrape Data" (green) and "Save Results" (blue). Below the form, there are four empty rectangular boxes arranged in a 2x2 grid, each with a label above it: "Found Links:", "Found Images:", "Found Headings:", and "Found Meta Tags:". Each box has a small upward-pointing triangle on its left side and a small downward-pointing triangle on its right side, indicating it is a scrollable area.

- iii. This image shows output, this tool has found links, images, headings and meta tags

Advanced Web Scraper

Web Scraper

Enter URL: Delay (seconds): Scrape Data Save Results

Found Links:

1.

2.

3. <https://www.microsoft.com>

4. <https://www.microsoft.com/microsoft-365>

5. <https://www.microsoft.com/en-us/microsoft-teams/group-chat-software>

6. <https://copilot.microsoft.com/>

7. <https://www.microsoft.com/en-us/windows/>

8. <https://www.microsoft.com/en-us/surface>

9. <https://www.xbox.com/>

10. https://www.microsoft.com/en-us/store/b/sale?icid=gm_nav_L0_salepage

11. <https://www.microsoft.com/en-us/store/b/business>

Found Images:

1.

2. <https://img-prod-cms-rt-microsoft-com.akamaized.net/cms/api/am/imageFileData/RE1Mu3b?ver=5c31>

Found Headings:

1. Your current User-Agent string appears to be from an automated process, if this is incorrect, please click this link:

Found Meta Tags:

1. Title: We are sorry, the page you requested cannot be found

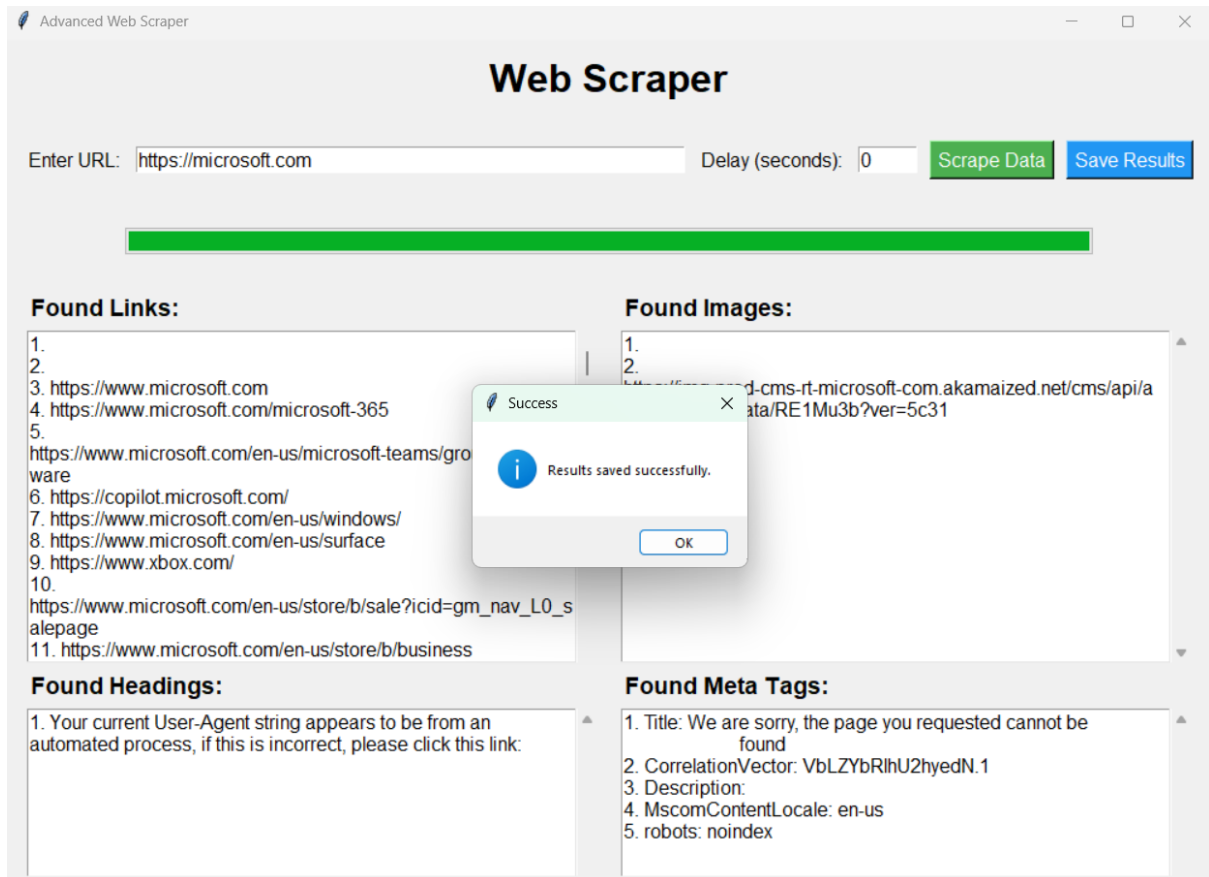
2. CorrelationVector: VbLZYbRIhU2hyedN.1

3. Description:

4. MscomContentLocale: en-us

5. robots: noindex

iv. This tool can save this scraped data in txt or csv format file



v. This image shows saved txt file with scraped data

```
scraped_data.txt
1 Found Links:
2 1.
3 2.
4 3. https://www.microsoft.com
5 4. https://www.microsoft.com/microsoft-365
6 5. https://www.microsoft.com/en-us/microsoft-teams/group-chat-software
7 6. https://copilot.microsoft.com/
8 7. https://www.microsoft.com/en-us/windows/
9 8. https://www.microsoft.com/en-us/surface
10 9. https://www.xbox.com/
11 10. https://www.microsoft.com/en-us/store/b/sale?icid=gm\_nav\_L0\_salepage
12 11. https://www.microsoft.com/en-us/store/b/business
13 12. https://support.microsoft.com/en-us
14 13. https://products.office.com/en-us/home
15 14. https://www.microsoft.com/en-us/windows/
16 15. https://www.microsoft.com/en-us/surface
17 16. https://www.xbox.com/
18 17. https://www.microsoft.com/en-us/store/b/sale?icid=gm\_nav\_L0\_salepage
19 18. https://support.microsoft.com/en-us
20 19. https://www.microsoft.com/en-us/store/apps/windows?icid=CNavAppsWindowsApps
21 20. https://onedrive.live.com/about/en-us/
22 21. https://outlook.live.com/owa/
23 22. https://www.skype.com/en/
24 23. https://www.onenote.com/
25 24. https://products.office.com/en-us/microsoft-teams/free?icid=SSM\_AS\_Promo\_Apps\_MicrosoftTeams
26 25. https://www.microsoft.com/edge
```