



Guided By :-

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A project on

# Book PDF Downloader

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# INTRODUCTION

- ❖ **PDF Book Downloader Project**
  - **Objective:** Enhancing digital access to educational materials through a user-friendly application.
  - **Methodology:** Developed using Python, Tkinter, requests library for web scraping, and BeautifulSoup for HTML parsing.
  - **Key Features:** Search functionality across multiple engines, PDF retrieval, and robust download management.
  - **Importance:** Facilitating convenient access to educational resources globally.

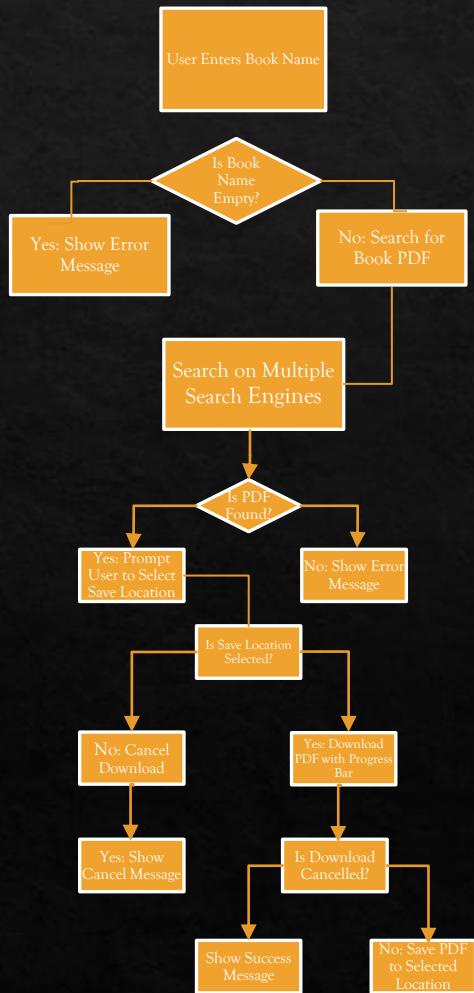
# OBJECTIVES

- ❖ **Develop a User-Friendly Interface:** Create an intuitive interface for users to search and download PDF books effortlessly.
- ❖ **Implement Search Functionality:** Enable searching across multiple search engines to locate PDF files related to specified book titles.
- ❖ **Ensure Reliable PDF Retrieval:** Utilize web scraping techniques to extract PDF download links from search engine results.
- ❖ **Enhance Download Management:** Provide robust download management features including progress tracking and cancellation.

# METHODOLY USED

- ❖ **Development Approach:** Adopted an Agile development methodology for iterative enhancements and quick adaptation to user feedback.
- ❖ **Programming Language:** Developed using Python for its versatility and extensive libraries, including Tkinter for GUI development.
- ❖ **Web Scraping:** Utilized the ‘requests’ library for HTTP requests and ‘BeautifulSoup’ for parsing HTML to extract PDF download links.
- ❖ **User Interface Design:** Implemented using Tkinter to create a responsive and intuitive GUI for seamless user interaction.

# FLOWCHART



# RESULTS AND OUTPUTS

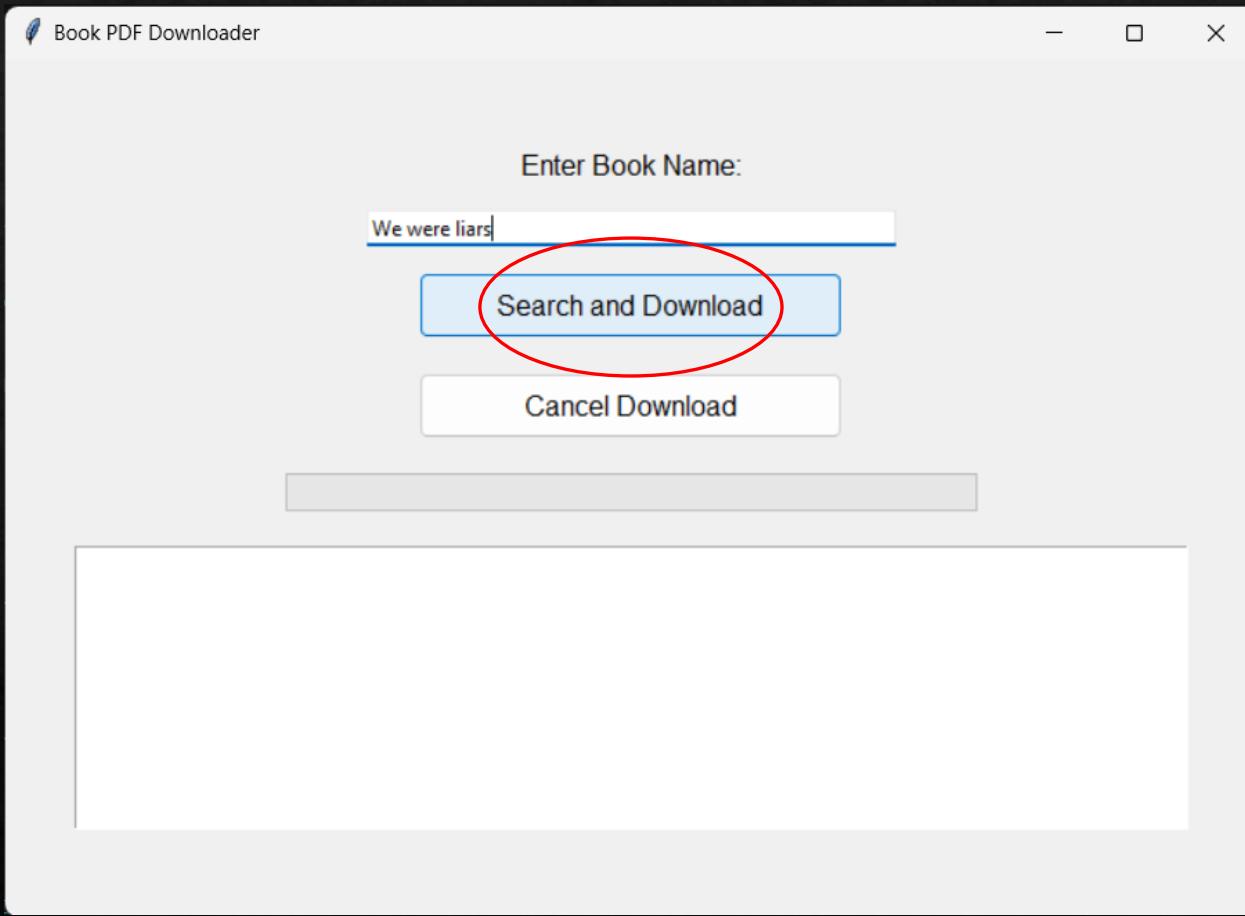
```
1 ✓ import tkinter as tk
2   from tkinter import ttk, messagebox, filedialog
3   import requests
4   from bs4 import BeautifulSoup
5   import os
6   import re
7   import threading
8
9   # Global variable to manage download cancellation
10  cancel_download_event = threading.Event()
11
12 ✓ def search_book():
13
14    book_name = entry.get()
15    if not book_name:
16      messagebox.showwarning("Input Error", "Please enter a book name")
17      return
18
19    # Clear the cancel event before starting a new download
20    cancel_download_event.clear()
21
22    # Call the function to search and download the book PDF in a separate thread
23    threading.Thread(target=download_book_pdf, args=(book_name,)).start()
24
25 ✓ def cancel_download():
26
27    cancel_download_event.set()
28
29 ✓ def download_book_pdf(book_name):
30
31    # Clear the log text widget
32    log_text.delete(1.0, tk.END)
33
34    log_text.insert(tk.END, f"Searching for '{book_name}'...\n")
35
36    search_urls = [
37      f"https://www.google.com/search?q={book_name.replace(' ', '+')}+filetype:pdf",
```

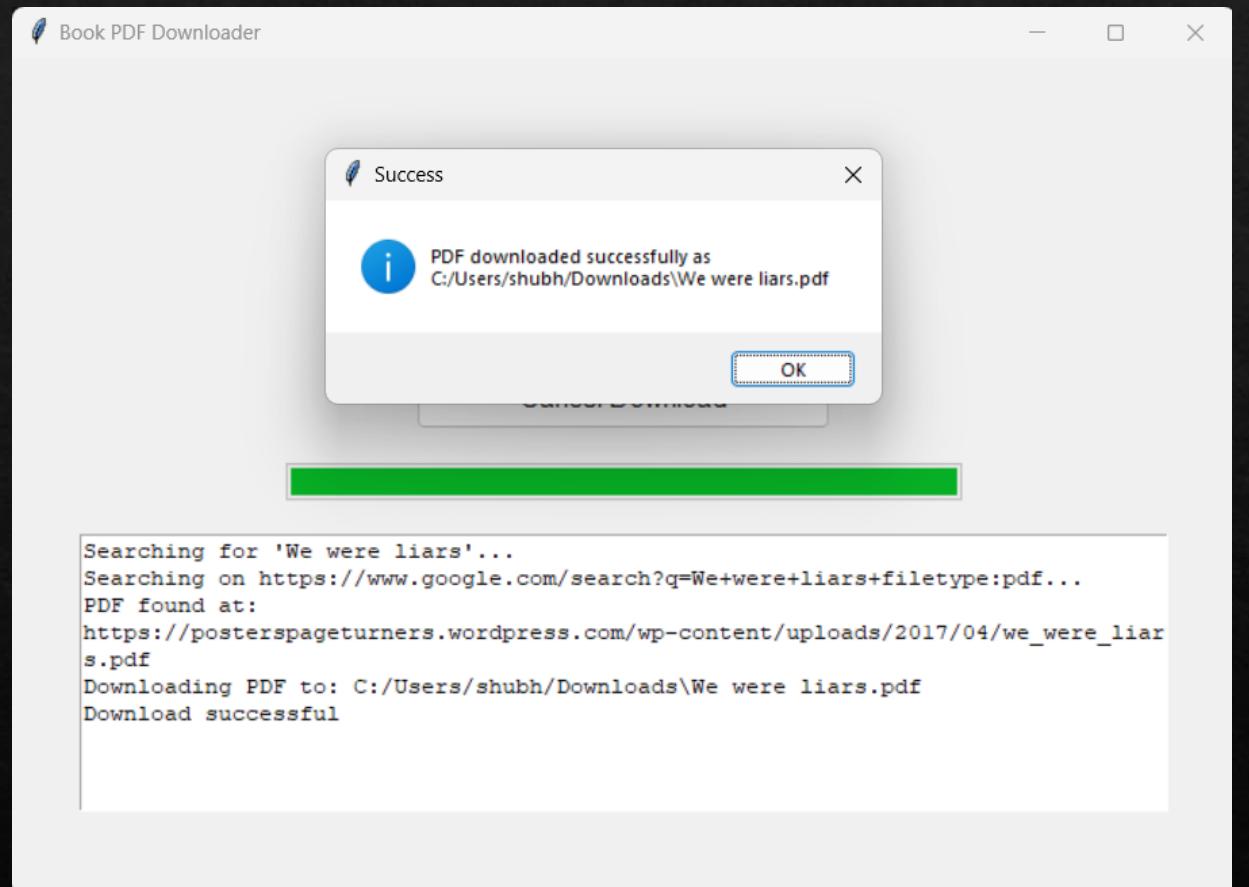
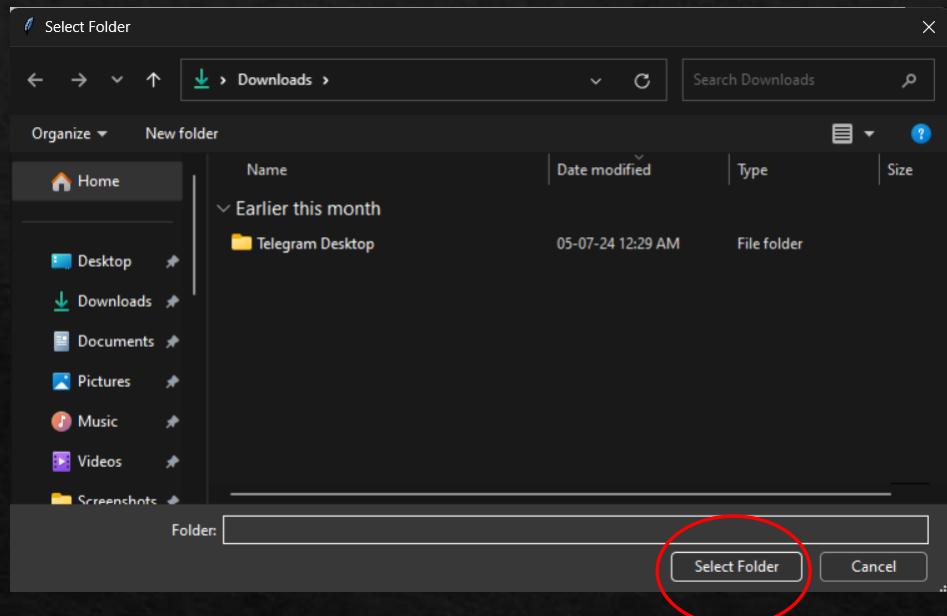
```
38     f"https://www.bing.com/search?q={book_name.replace(' ', '+')}+filetype:pdf",|  
39     f"https://www.duckduckgo.com/?q={book_name.replace(' ', '+')}+filetype:pdf"  
40  
41     ]  
42  
43     headers = {  
44         "User-Agent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.124 Safari/537.36"  
45     }  
46  
47     pdf_url = None  
48     for url in search_urls:  
49         log_text.insert(tk.END, f"Searching on {url}...\n")  
50         try:  
51             response = requests.get(url, headers=headers)  
52             soup = BeautifulSoup(response.text, "html.parser")  
53  
54             for link in soup.find_all("a", href=True):  
55                 href = link["href"]  
56                 if ".pdf" in href:  
57                     pdf_url = href  
58                     break  
59             if pdf_url:  
60                 break  
61         except Exception as e:  
62             log_text.insert(tk.END, f"Error while searching: {str(e)}\n")  
63             messagebox.showerror("Error", f"Error while searching: {str(e)}")  
64             return  
65  
66     if not pdf_url:  
67         log_text.insert(tk.END, "No PDF found for the given book name\n")  
68         messagebox.showerror("Error", "No PDF found for the given book name")  
69         return  
70  
71     log_text.insert(tk.END, f"PDF found at: {pdf_url}\n")  
72  
73     # Prompt the user to select the download location  
74     save_path = filedialog.askdirectory()  
75     if not save_path:
```

```
74     if not save_path:
75         return
76
77     pdf_name = re.sub(r'[\/*?:"<>|]', "", book_name) + ".pdf"
78     file_path = os.path.join(save_path, pdf_name)
79
80     log_text.insert(tk.END, f"Downloading PDF to: {file_path}\n")
81
82     # Download the PDF with progress bar
83     try:
84         response = requests.get(pdf_url, stream=True)
85         total_size = int(response.headers.get('content-length', 0))
86
87         progress_bar['value'] = 0
88         progress_bar['maximum'] = total_size
89
90         with open(file_path, 'wb') as pdf_file:
91             for data in response.iter_content(chunk_size=4096):
92                 if cancel_download_event.is_set():
93                     log_text.insert(tk.END, "Download cancelled\n")
94                     messagebox.showinfo("Download Cancelled", "The download has been cancelled.")
95                     return
96
97                 pdf_file.write(data)
98                 progress_bar['value'] += len(data)
99                 root.update_idletasks()
100
101            log_text.insert(tk.END, "Download successful\n")
102            messagebox.showinfo("Success", f"PDF downloaded successfully as {file_path}")
103    except Exception as e:
104        log_text.insert(tk.END, f"Failed to download PDF: {str(e)}\n")
105        messagebox.showerror("Error", f"Failed to download PDF: {str(e)}")
106
107    # Create the main application window
108    root = tk.Tk()
109    root.title("Book PDF Downloader")
110
```

```
110
111 # Add padding to the main window
112 root.configure(padx=20, pady=20)
113
114 # Create a style
115 style = ttk.Style()
116 style.configure("TLabel", font=("Helvetica", 12))
117 style.configure("TEntry", font=("Helvetica", 12))
118 style.configure("TButton", font=("Helvetica", 12), padding=6)
119 style.configure("TProgressbar", thickness=20)
120
121 # Create and place the widgets inside a frame
122 frame = ttk.Frame(root, padding=(20, 20, 20, 20))
123 frame.pack(fill="both", expand=True)
124
125 label = ttk.Label(frame, text="Enter Book Name:")
126 label.pack(pady=10)
127
128 entry = ttk.Entry(frame, width=50)
129 entry.pack(pady=5)
130
131 search_button = ttk.Button(frame, text="Search and Download", command=search_book)
132 search_button.pack(pady=10)
133 search_button.configure(width=25) # Adjust the button width
134
135 # Add a cancel button
136 cancel_button = ttk.Button(frame, text="Cancel Download", command=cancel_download)
137 cancel_button.pack(pady=10)
138 cancel_button.configure(width=25) # Adjust the button width
139
140 # Add a progress bar
141 progress_bar = ttk.Progressbar(frame, orient='horizontal', length=400, mode='determinate')
142 progress_bar.pack(pady=10)
143
144 # Add a log text widget
145 log_text = tk.Text(frame, height=10, wrap=tk.WORD)
146 log_text.pack(pady=10, fill=tk.BOTH, expand=True)
147
148 # Run the application
149 root.mainloop()
150
```

# OUTPUTS





# FUTURE SCOPE

- ❖ Enhance the search functionality by refining search queries or using additional search engines or APIs.
- ❖ Provide feedback on the progress of the search operation itself (e.g., "Searching on Google/Bing/DuckDuckGo...").
- ❖ Add a mechanism to handle cases where multiple PDF links are found and allow the user to choose.
- ❖ Radio buttons or a dropdown menu to select between "PDF" and "Audiobook".
- ❖ Modify search URLs to include audiobook-specific queries.

# CONCLUSION

## ❖ Current Features

- Search and download PDFs of books based on user input.
- Progress tracking with a visual progress bar.
- Error handling for network issues and search failures.

## ❖ Future Enhancements:

- Audiobook Integration: Extend functionality to download audiobooks alongside PDFs.
- Enhanced User Interface: Improve user experience with clearer feedback and options.
- Advanced Search: Implement advanced search algorithms or APIs for better results.

## ❖ Benefits:

- Empowers users to access books in multiple formats effortlessly.
- Enhances learning and enjoyment through versatile content delivery.
- Vision: Continuously evolve to meet user needs and technological advancements in digital content access.

# REFERENCES

- ❖ <https://www.geeksforgeeks.org/>
- ❖ <https://docs.python.org/3/library/tkinter.html>
- ❖ <https://pypi.org/project/beautifulsoup4/>
- ❖ <https://docs.python.org/3/library/threading.html>

Thank  
you

