



# Book Suggestion App - README

---

This is my final project for the Python certification course. I created a simple book suggestion app using Python. It uses the Google Books API to get real book data, filters the results based on user input, and gives a random book recommendation.

## What This App Does

- Takes your favorite genre as input
- Lets you filter books by rating and publication year
- Gets real book data from the internet (Google Books)
- Shows one random book based on your filters

## How to Run the App

### 1. Install Python Libraries

Make sure you have Python installed. Then, open your terminal or command prompt and install the libraries:

*`pip install requests pandas`*

---

### 2. Save the Code

Copy the code from `book_suggestion_app.py` and save it in your project folder.

### 3. Run the App

In the terminal, go to your project folder and run:

*`python book_suggestion_app.py`*

---

### 4. Follow the Prompts

- Type in a genre like fiction, romance, or science.
- You can enter a minimum rating (like 4) or skip it.
- You can also enter a year like 2020 or skip that too.

Then the app will show you one book suggestion!

## Example Output

```
Welcome to the Book Suggestion App!
Enter your favorite genre (e.g. fiction, history, science): fiction
Enter minimum rating (1 to 5, or leave blank): 4
Enter a publication year to filter (or leave blank): 2020
```

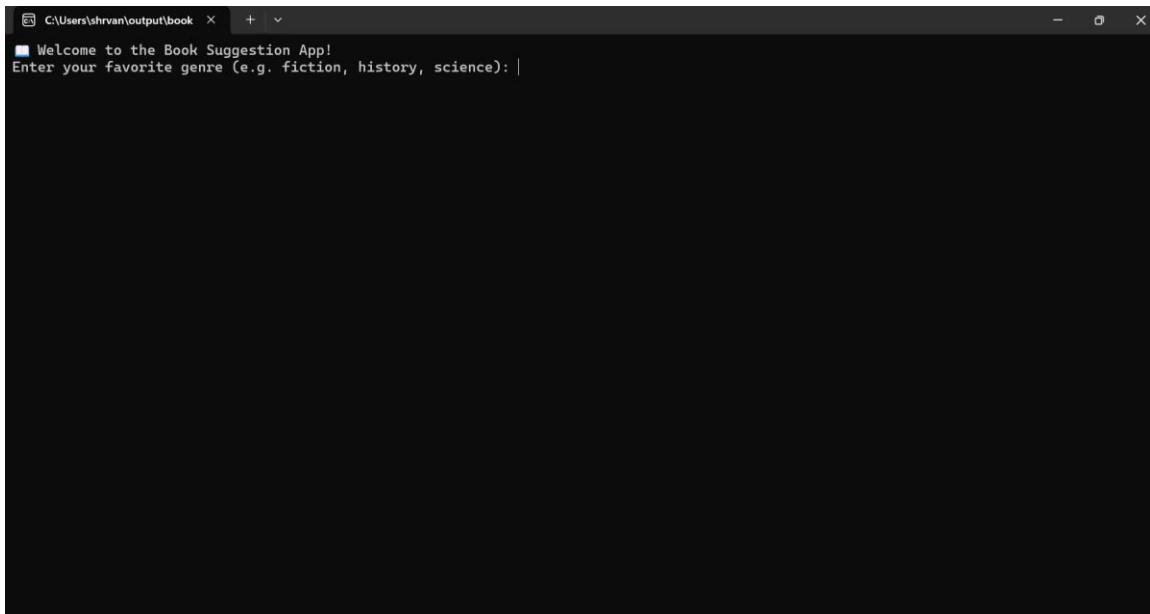
```
Book Suggestion:
Title: The Midnight Library
Authors: Matt Haig
Year: 2020
Rating: 4.3
Genre: fiction
```

---

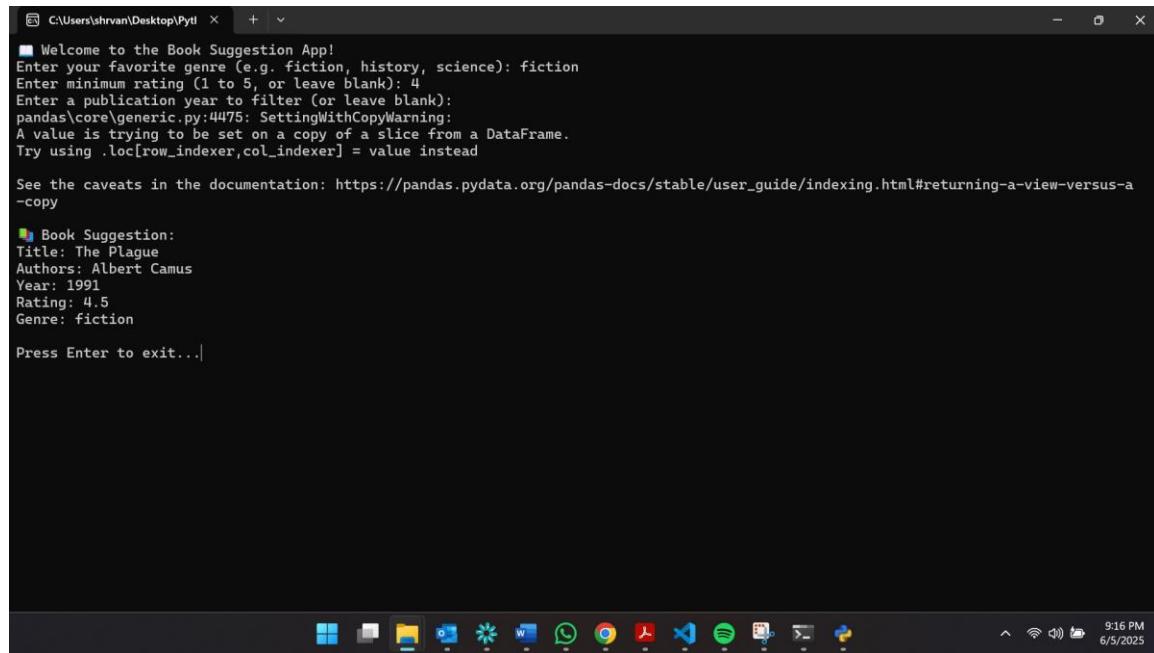
## Screenshots

Please see the screenshots folder for:

### Input:



## Output:



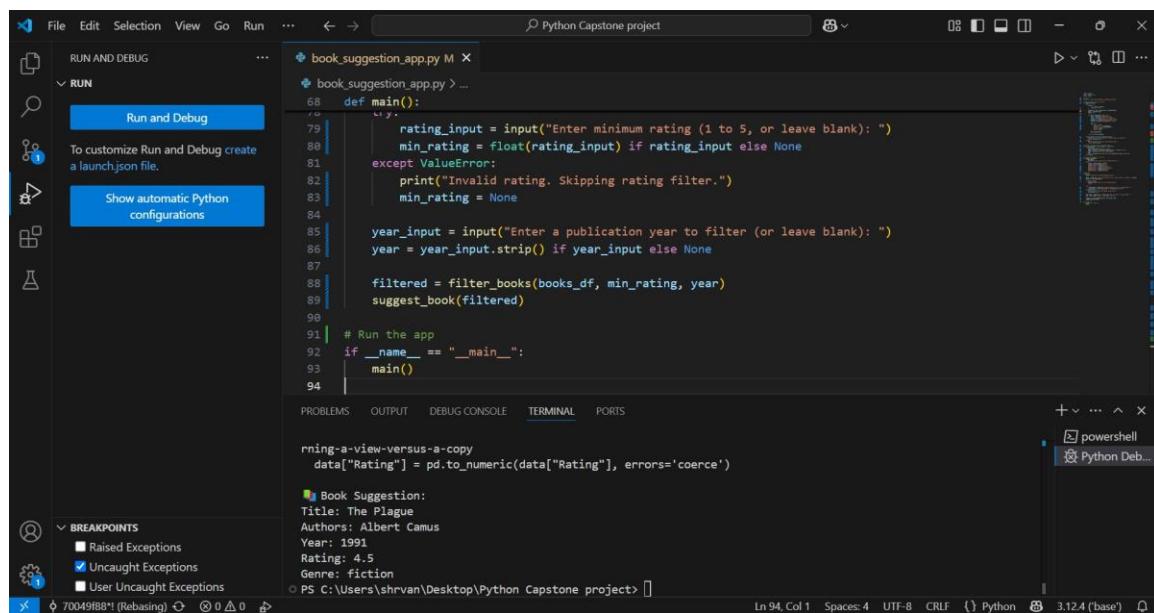
```
C:\Users\shrvan\Desktop\Pytl + 
■ Welcome to the Book Suggestion App!
Enter your favorite genre (e.g. fiction, history, science): fiction
Enter minimum rating (1 to 5, or leave blank): 4
Enter a publication year to filter (or leave blank):
pandas\core\generic.py:4475: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

Book Suggestion:
Title: The Plague
Authors: Albert Camus
Year: 1991
Rating: 4.5
Genre: fiction

Press Enter to exit...|
```

## Output in VS code:



The screenshot shows the VS Code interface with the 'RUN AND DEBUG' view open. The 'book\_suggestion\_app.py' file is selected in the editor. The code defines a main function that prompts for genre, minimum rating, and publication year, then filters and suggests a book based on these inputs.

```
book_suggestion_app.py M
def main():
    rating_input = input("Enter minimum rating (1 to 5, or leave blank): ")
    min_rating = float(rating_input) if rating_input else None
except ValueError:
    print("Invalid rating. Skipping rating filter.")
    min_rating = None

year_input = input("Enter a publication year to filter (or leave blank): ")
year = year_input.strip() if year_input else None

filtered = filter_books(books_df, min_rating, year)
suggest_book(filtered)

if __name__ == "__main__":
    main()
```

The 'TERMINAL' tab shows the output of the application running in a powershell terminal, which matches the output shown in the terminal window above.

## Technologies Used

- Python 3
- requests
- pandas
- Google Books API

## Repository Structure

```
Python-Project-Submission/
|
├── book_suggestion_app.py
├── README.md
└── screenshots/
    ├── genre_input.png
    └── final_output.png
```

## Final Thoughts

I enjoyed building this project and learned a lot about using APIs, pandas, and handling errors in Python. Thank you for reviewing my submission!

## EXE Download

You can download the executable version of the app using the link below:

👉 [Download book\_suggestion\_app.exe from Google Drive]([https://drive.google.com/file/d/1ZqGEvjqaR7D0ibBRzstxn\\_ychpzs4dKo/view?usp=sharing](https://drive.google.com/file/d/1ZqGEvjqaR7D0ibBRzstxn_ychpzs4dKo/view?usp=sharing))

## GitHub Repository

You can view the complete source code and project files on GitHub:

👉 <https://github.com/Shravanipalanisamy/Python-Project-Submission>

👤 Author: Shravani Palanisamy