

BookHarbor: A Literary Exploration Engine

IR Presentation

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Introduction and Problem Addressed

Objective: Our project aims to simplify the process of discovering literature in the digital age by providing users with a convenient and efficient tool to explore books, authors, and genres aligned with their interests and learning goals.

Challenge: The digital era has flooded users with an overwhelming amount of literary content, making it challenging to navigate and find relevant books, authors, and genres.

User Difficulty: Users often struggle to identify and access books that resonate with their preferences and learning objectives, leading to frustration and time-consuming searches.



Significance and User Benefit

- **Importance:** Our project's significance lies in enhancing the literary exploration experience by simplifying book discovery.
- **User Benefit:** By offering a more streamlined and efficient way to find books and authors, we aim to save users' time and ensure they discover content aligned with their interests.





Approach and Technical Methods



Technical Methods:

- **Web Scraping:** Extracted book details from platforms like Project Gutenberg and Open Library using Requests and BeautifulSoup.
- **Data Processing:** Parsed and organized extracted data for accurate representation.
- **User Interface Design:** Created an intuitive user interface for efficient book searches.



Tools Used



01. Python



Leveraged for scripting
due to versatility and
extensive libraries

02.

Flask



Implemented for building
a robust and scalable web
application



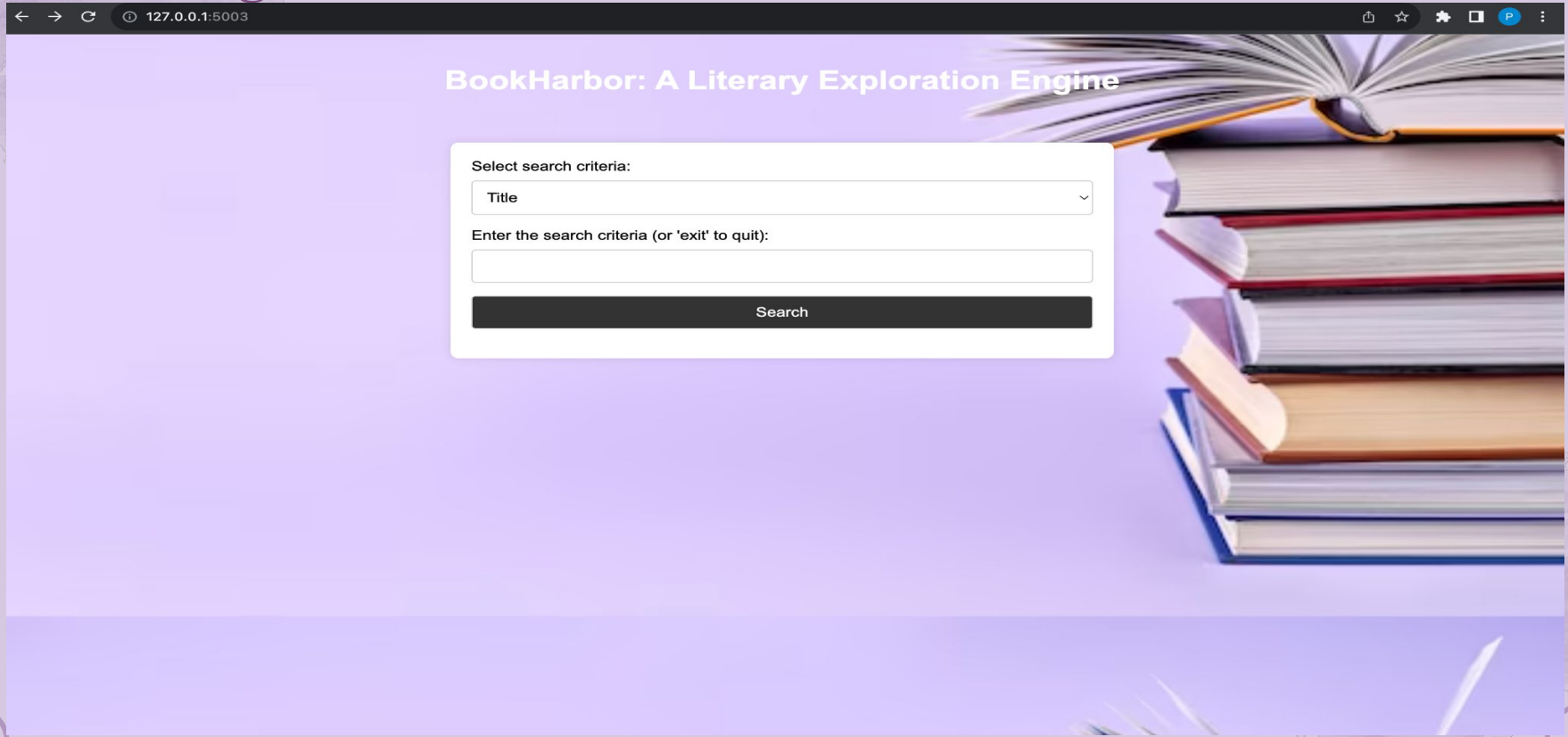
Experiments and Results

- **Findings:** BookHarbor successfully identified a significant number of unique book titles across various genres and authors.
- **Potential Impact:** The tool's implementation is expected to amplify user engagement and significantly enhance users' literary exploration experiences.



Screenshot Demonstrations

Home Page :



← → ↻ ⓘ 127.0.0.1:5003

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BookHarbor: A Literary Exploration Engine

Select search criteria:

Title ▾

Enter the search criteria (or 'exit' to quit):

Search

Screenshot Demonstrations

Result Page :

← → ↺ 127.0.0.1:5003/search

Search Results

[Back to Home](#)

Matching Accuracy: Moderate

- Harry Potter en de Vuurbeker**
Link: <https://openlibrary.org/works/OL82560W?edition=key%3A/books/OL27291944M>
- Carnet Harry Potter: Harry Potter Carnet de Notes**
Link: <https://openlibrary.org/works/OL25544021W?edition=key%3A/books/OL48520708M>
- Harry Potter: 2005 Mini Wall - Literary (Harry Potter)**
Link: <https://openlibrary.org/works/OL8435901W?edition=key%3A/books/OL7921990M>
- Harry Potter Character Pop: Harry Potter**
Link: <https://openlibrary.org/works/OL26120277W?edition=key%3A/books/OL26120277M>

Screenshot Demonstrations

Feedback Page :

← → ↺ 127.0.0.1:5003/search

Link: <https://openlibrary.org/works/OL82548W?edition=key%3A/books/OL27540328M>

Kate Bonnet: The Romance of a Pirate's Daughter

Link: <https://www.gutenberg.org/ebooks/17053>

Harry Potter: Dumbledore

Link: <https://openlibrary.org/works/OL24449025W?edition=key%3A/books/OL29782958M>

Harry Potter: Voldemort

Link: <https://openlibrary.org/works/OL24449026W?edition=key%3A/books/OL29782959M>

Harry Potter: Harry Potter Cinematic Guide

Link: <https://openlibrary.org/works/OL23577451W?edition=key%3A/books/OL31402157M>

Hidden Treasures; Or, Why Some Succeed While Others Fail

Link: <https://www.gutenberg.org/ebooks/20151>

Provide feedback on the search results:



Project Demo



Conclusion

- In summary, BookHarbor redefines literary exploration, offering users an intuitive tool for discovering diverse books and authors.
- With its success in simplifying book discovery and identifying unique titles across genres, BookHarbor promises to revolutionize how users engage with literature, providing a more accessible and enriching literary experience.



Future work

- **Improve Data Collection:** Gather more diverse book info using advanced scraping techniques.
- **Enhance Search Function:** Make searching for books more accurate and faster.
- **Add Interactive Features:** Personalize user experience for better engagement.
- **Collect User Feedback:** Continuously improve by listening to user suggestions.
- **Ensure Device Compatibility:** Make BookHarbor accessible on various devices for user convenience.



Thank You