

Detailed Explanation of Functions/Features:

load_books():

- Loads the books and lent_books data from books.json and lent_books.json files.
- Initializes the books and lent_books list.

save_books():

- Saves the current state of books and lent_books lists to their respective JSON files.

generate_id():

- Generates a unique ID for a new book.
- Returns the maximum current ID plus one or 1 if no books are present.

generate_lend_id():

- Generates a unique ID for a new borrower.
- Returns the maximum current ID plus one or 1 if no borrower are present.

add_book():

- Prompts the user for book details (title, authors, ISBN, publishing year, price, quantity).
- Creates a new book entry with a unique ID and appends it to the books list.
- Saves the updated books list to books.json.

view_books():

- Displays all books in a tabulated format.
- Shows the book ID, title, authors, ISBN, publishing year, price, and quantity.

search_books(term):

- Searches for books by title or ISBN.
- Displays the matching books in a tabulated format.

search_books_by_author(author_name):

- Searches for books by author name.
- Displays the matching books in a tabulated format.

lend_book():

- Displays all available books.
- Prompts the user to select a book by its ID to lend.
- Reduces the quantity of the selected book and records the borrower's information.
- Saves the updated books and lent_books lists to their respective JSON files.

view_lent_books():

- Displays all lent books in a tabulated format.
- Shows the lend ID, title, borrower's name, and contact information.

return_book():

- Displays all lent books.
- Prompts the user to select a book by its ID to return.
- Increases the quantity of the returned book and removes it from the lent_books list.
- Saves the updated books and lent_books list to their respective JSON files.

remove_book():

- Displays all available books.
- Prompts the user to select a book by its ID to remove.
- Confirms the removal and deletes the book from the books list.
- Saves the updated books list to books.json.

Data Storage (JSON Files):

- **books.json:** Stores the books data, including details like title, authors, ISBN, publishing year, price, and quantity.
- **lent_books.json:** Stores the details of lent books, including the borrower's information.