

```
#!/bin/bash

# Function to display the book collection
display_collection() {
    echo "Book Collection:"
    echo "-----"
    echo "ID      | Title                                | Author"
    echo "-----"
    awk -F "|" '{printf "%-5s| %-20s| %-20s\n", $1, $2, $3}' books.txt
    echo "-----"
}

# Function to add a book to the collection
add_book() {
    echo "Enter the book title: "
    read title
    echo "Enter the author: "
    read author

    # Generate a unique ID for the book
    id=$(uuidgen | awk -F "-" '{print $1}')

    # Append the book details to the file
    echo "$id|$title|$author" >> books.txt
    echo "-----"
    echo "Book added successfully!"
    echo "-----"
}
```

```

# Function to remove a book from the collection
remove_book() {
    echo "Enter the book ID: "
    read id

    # Check if the book exists
    grep -q "^$id" books.txt
    if [ $? -eq 0 ]; then
        # Remove the book entry from the file
        sed -i "/^$id/d" books.txt
        echo "-----"
        echo "Book removed successfully!"
        echo "-----"
    else
        echo "-----"
        echo "Book not found."
        echo "-----"
    fi
}

# Function to search for books by title
search_books() {
    echo "Enter the search keyword: "
    read keyword

    echo "Search Results:"
    echo "-----"
    grep -i "|.*$keyword.*|" books.txt
    echo "-----"
    if [ $? -ne 0 ]; then
        echo "-----"
        echo "No matching books found"
    fi
}

```

```
# Main menu
while true; do
    echo "1. Display Book Collection"
    echo "2. Add a Book"
    echo "3. Remove a Book"
    echo "4. Search for Books"
    echo "5. Exit"
    echo "Enter your choice: "
    read choice

    case $choice in
        1)
            display_collection
            ;;
        2)
            add_book
            ;;
        3)
            remove_book
            ;;
        4)
            search_books
            ;;
        5)
            echo "Exiting..."
            exit 0
            ;;
        *)
            echo "Invalid choice. Please try again."
            ;;
    esac
done
```

```
[root@613ad3767866 /]# ./book_store.sh
```

1. Display Book Collection
2. Add a Book
3. Remove a Book
4. Search for Books
5. Exit

Enter your choice:

1

Book Collection:

ID	Title	Author
----	-------	--------

1. Display Book Collection
2. Add a Book
3. Remove a Book
4. Search for Books
5. Exit

Enter your choice:

2

Enter the book title:

live

Enter the author:

wjoud

Book added successfully!

1. Display Book Collection
2. Add a Book
3. Remove a Book
4. Search for Books
5. Exit

- 2. Add a Book
- 3. Remove a Book
- 4. Search for Books
- 5. Exit

Enter your choice:

1

Book Collection:

ID	Title	Author

ea8b2c7c	live	wjoud

- 1. Display Book Collection
- 2. Add a Book
- 3. Remove a Book
- 4. Search for Books
- 5. Exit

Enter your choice:

4

Enter the search keyword:

l

Search Results:

ea8b2c7c	live	wjoud

-
- 1. Display Book Collection
 - 2. Add a Book
 - 3. Remove a Book
 - 4. Search for Books
 - 5. Exit

Enter your choice:

3
Enter the book ID:
ea8b2c7c

Book removed successfully!

-
- 1. Display Book Collection
 - 2. Add a Book
 - 3. Remove a Book
 - 4. Search for Books
 - 5. Exit

Enter your choice:

1
Book Collection:

ID	Title	Author

