

Book Service

Entities:

Books

- Book Title
- Author (Additional attributes can be added as needed)

Authors

- Full Name (Additional attributes can be added as needed)

Client

- Full Name (Additional attributes can be added as needed)

API Methods:

Add a book.

Edit the book's title and author.

Retrieve a list of books with filtering options for:

- The first letter of the book's title.
- Author.

Add multiple books by the same author.

Add an author.

Create a client.

Retrieve a list of books borrowed by the client.

Link a client to a book (client borrowed the book).

Unlink a client from a book (client returned the book).

Considerations:

- Authors should be stored in a separate database table.
- The API should be secured using an access token (Bearer authentication). The token list can be static.
- The API method to retrieve books borrowed by the client should be based on the access token. The client's identifier should not be transmitted. Client identification should be based on the provided access token.
- The entire infrastructure needs to be deployed in Docker.
- Provide a detailed guide on how to launch the project.

Technologies:

- postgresSQL
- fastapi
- docker