

Bookle

Group11

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Git repository

<https://git.eu-de.bluemix.net/w.pan/bookle>

branch:

- running on the local: `master` branch
- running on cloud: `deploy2` branch

files:

- data-preprocess: getting books and authors data from Goodreads
- bookle-api: backing service based on Loopback + Cloudant
- bookle-webapp: fronting service based on Angular

Run in the local

0. use `master` branch
1. run `npm install` in `./bookle-api` and `./bookle-webapp`
2. set `apiEndpoint` and `auth` in `./bookle/bookle-webapp/src/environments/environment.ts`
3. start loopback locally in `./bookle-api`
4. start angular application: run `ng serve` in `./bookle-webapp`

LoopBack API on IBM Cloud

```
apiEndpoint: 'https://bookle-vu.eu-de.cf.appdomain.cloud/api',
auth: {
  clientId: '483ce3cd-4a9b-4a42-b8c0-21c7b63813be',
  clientSecret: 'fB1gU2hD3gN6dB8nK4bJ3xU7wX8fM6fR6sE3bI7hN0iS0sK6iE'
}
```

Angular on IBM Cloud

- <https://bookle.eu-de.mybluemix.net>
- use `deploy2` on IBM cloud
- PS: There are some bugs on IBM cloud, such as refreshing to 404 error, because of the different build environment between IBM cloud and local. However, you can still use the local running model without bugs.

Login

Customer

You can try to use this or register a new account:

- username: aa@aa.com
- password: 123456

Admin

You can try to use this:

- username: admin@admin.com
- password: admin

Epic

The purpose of the project is to develop an online book searching and sharing system -- Bookle.

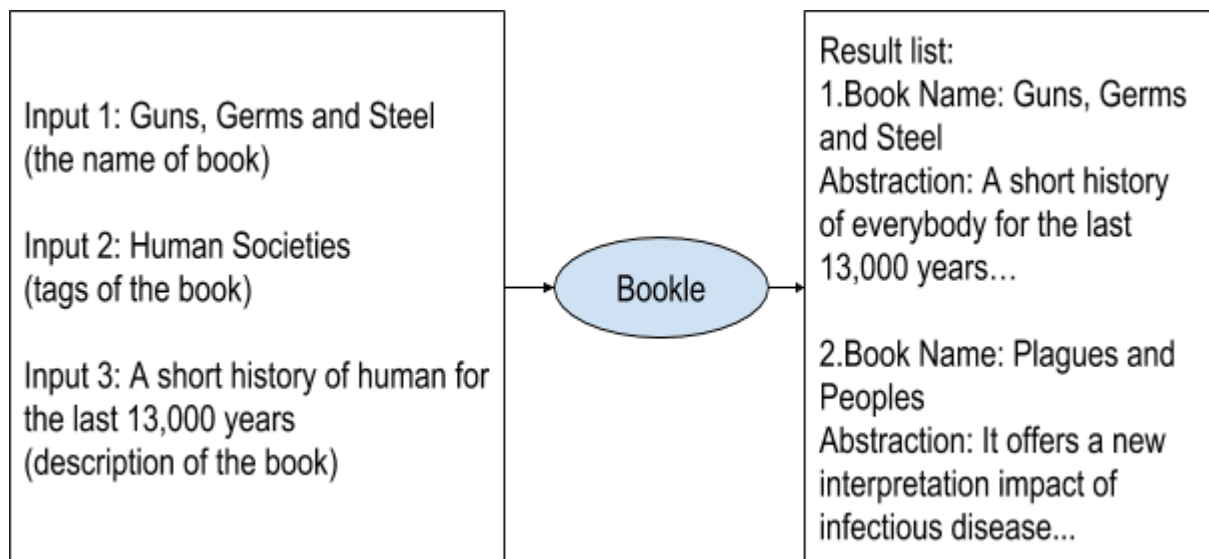
Bookle can help users find books and save books to a list. Specifically, customers can use Bookle to search for books and authors which they are interested in. Moreover, customers can also have their own favorite list of books and share it with others.

Bookle mainly offers 4 services:

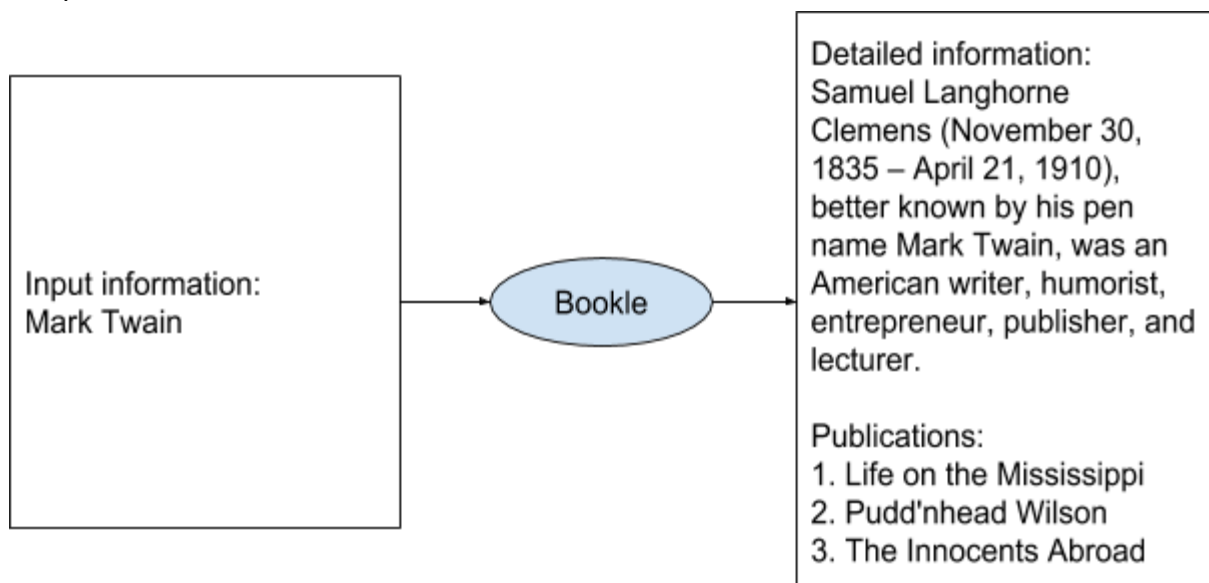
1. Search Book Service: return a list of books based on the customer's searching input so that users can know detailed information about the books they are interested in.
2. Search Author Service: return the author's information based on the customer's searching input so that customers can know detailed information and publications of the authors.
3. Collection Management Service: Customers can save books into their own collection and manage the collection.
4. Collection View Service: A customer can visit other users' collection lists so that he/she can find books he/she might be interested in.
5. Book CRUD Service: A administrator can do the CRUD operations on books in order to manage the book database.
6. Author CRUD Service: A administrator can do the CRUD operations on authors in order to manage the author database.

User Story

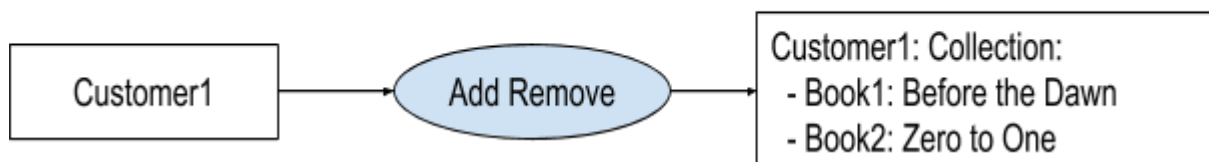
1. As a customer, I want to search for books with some keywords. The keywords can be the name of books (see Input 1 below), the tag of books (see Input 2 below) or the description of books (see Input 3 below). I want to get a list of books as the result, with some basic information (e.g. abstraction) attached to each book in the list.



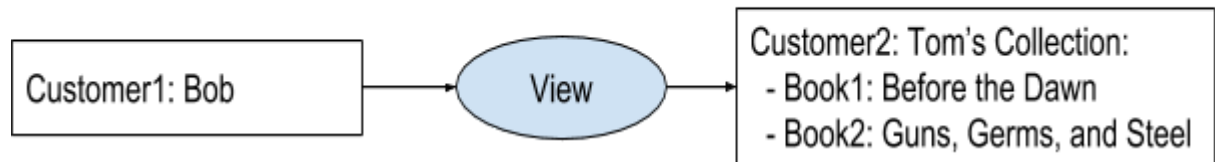
2. As a customer, I want to know more detailed information about the authors who I am interested in. I want to search the authors with their names, and I want to get their biography and publications list.



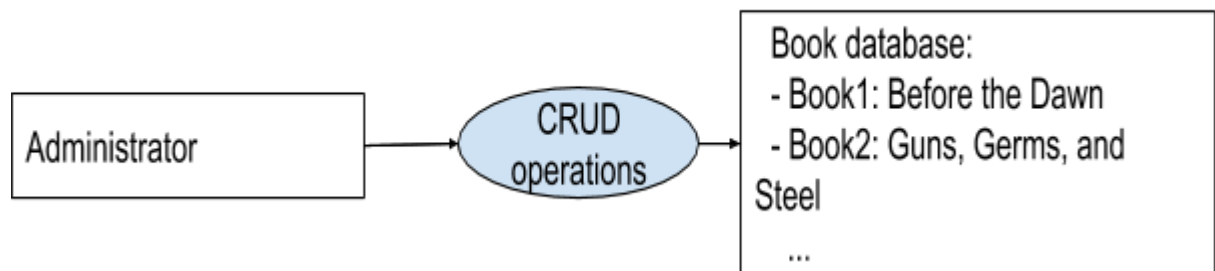
3. As a customer, I want to bookmark some books by saving them into a favorite list. I also want to be able to remove some books from the list later.



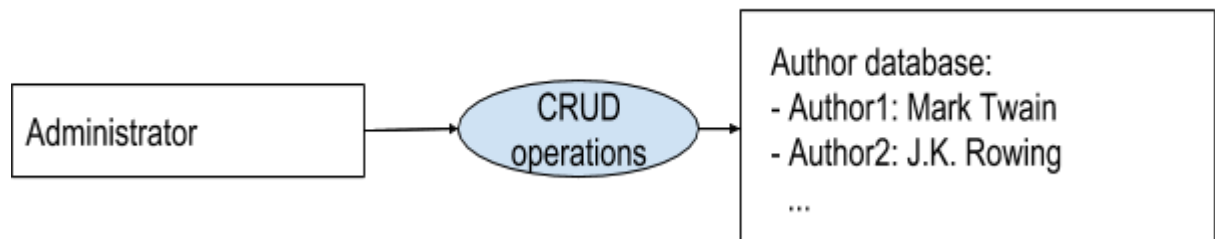
4. As a customer, I want to view other users' favorite lists (especially the ones having the same taste as me), so that I might discover new books interesting to me.



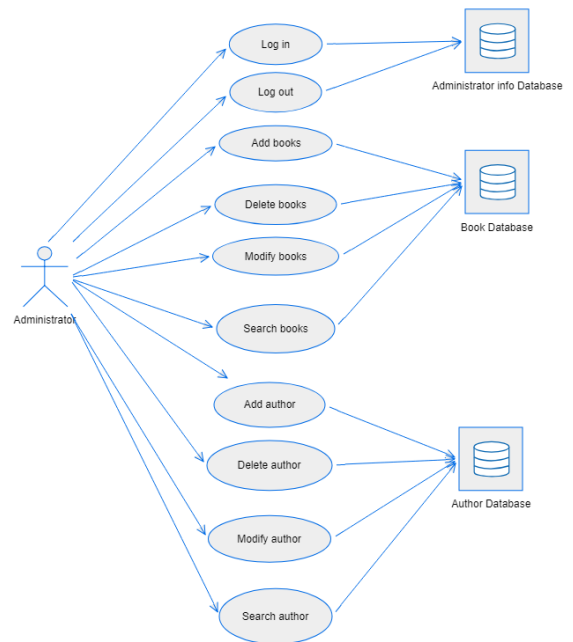
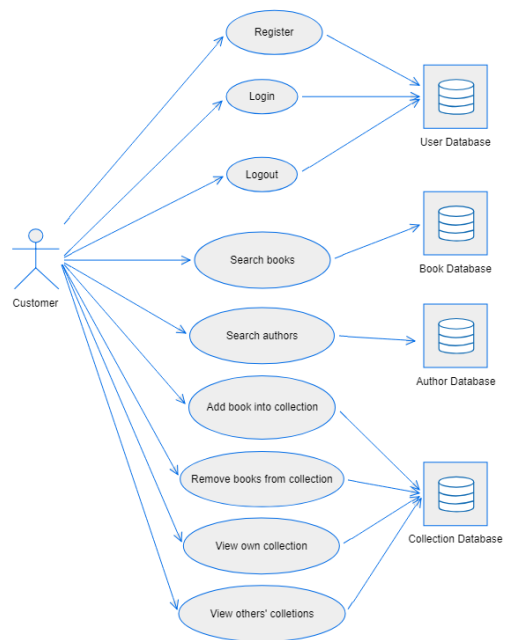
5. As an administrator, I want to do CRUD operations on books in order to manage the book database.



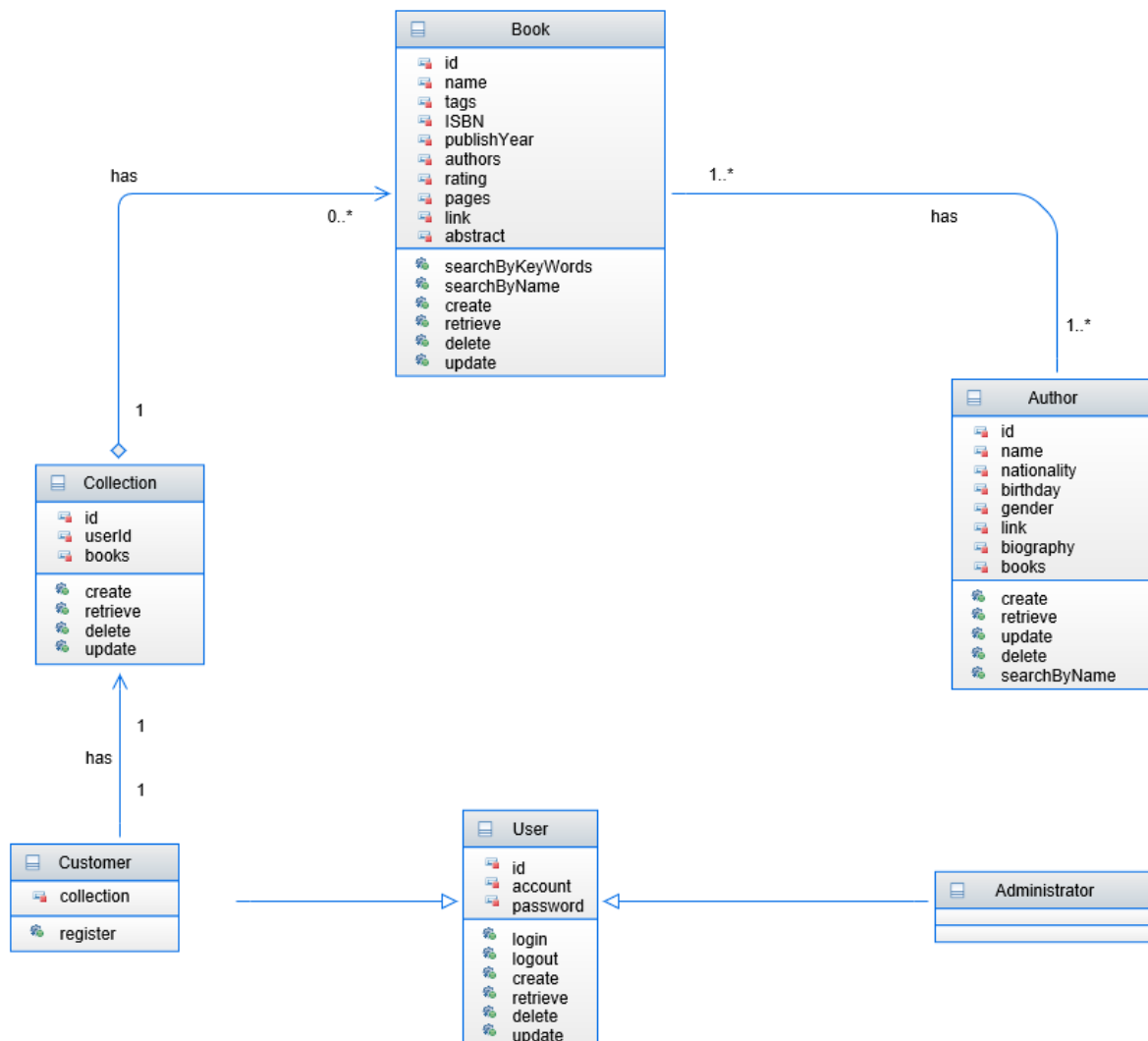
6. As an administrator, I want to do CRUD operations on authors in order to manage the author database.



Use Case Diagram



Class Diagram

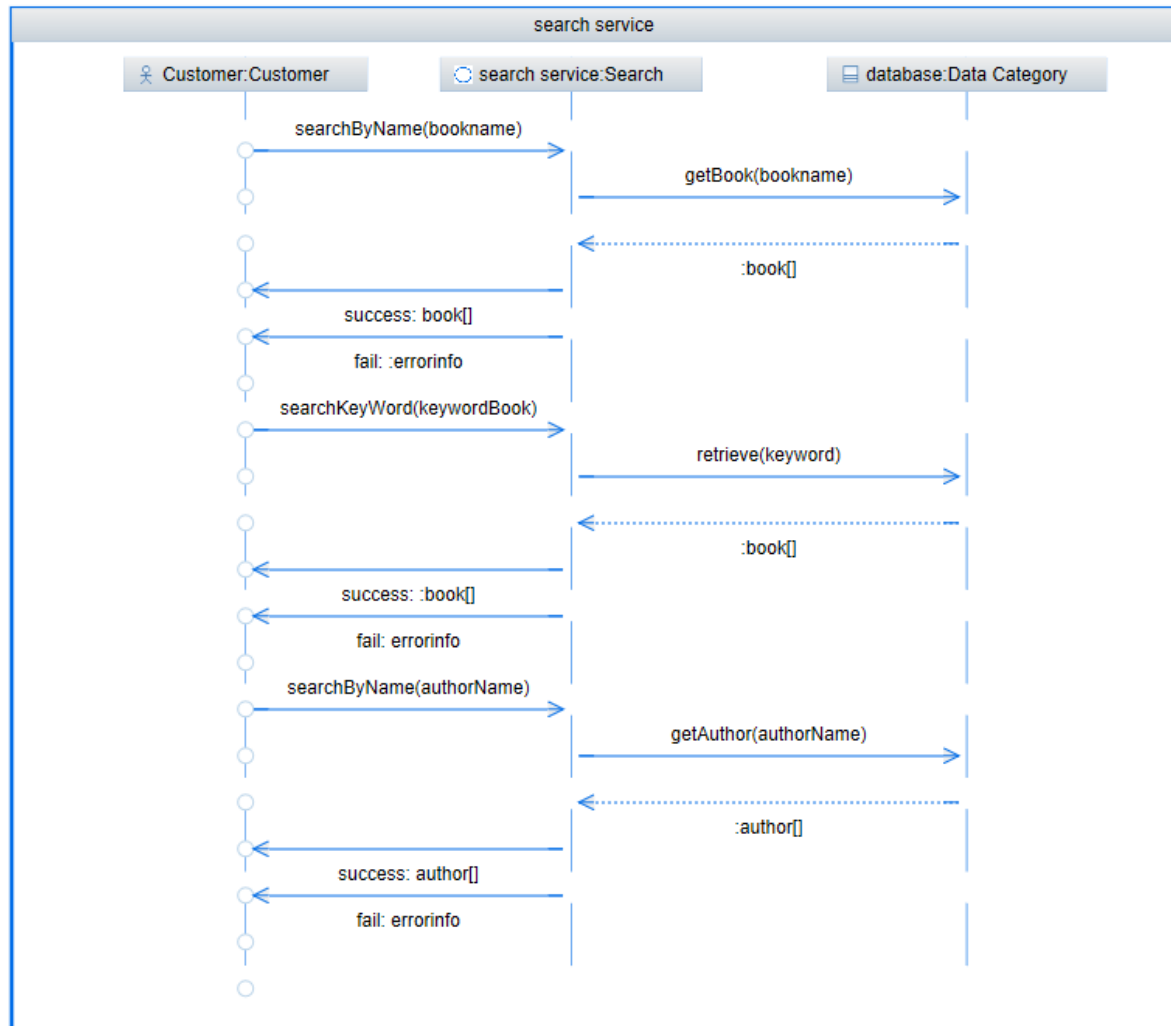


Note:

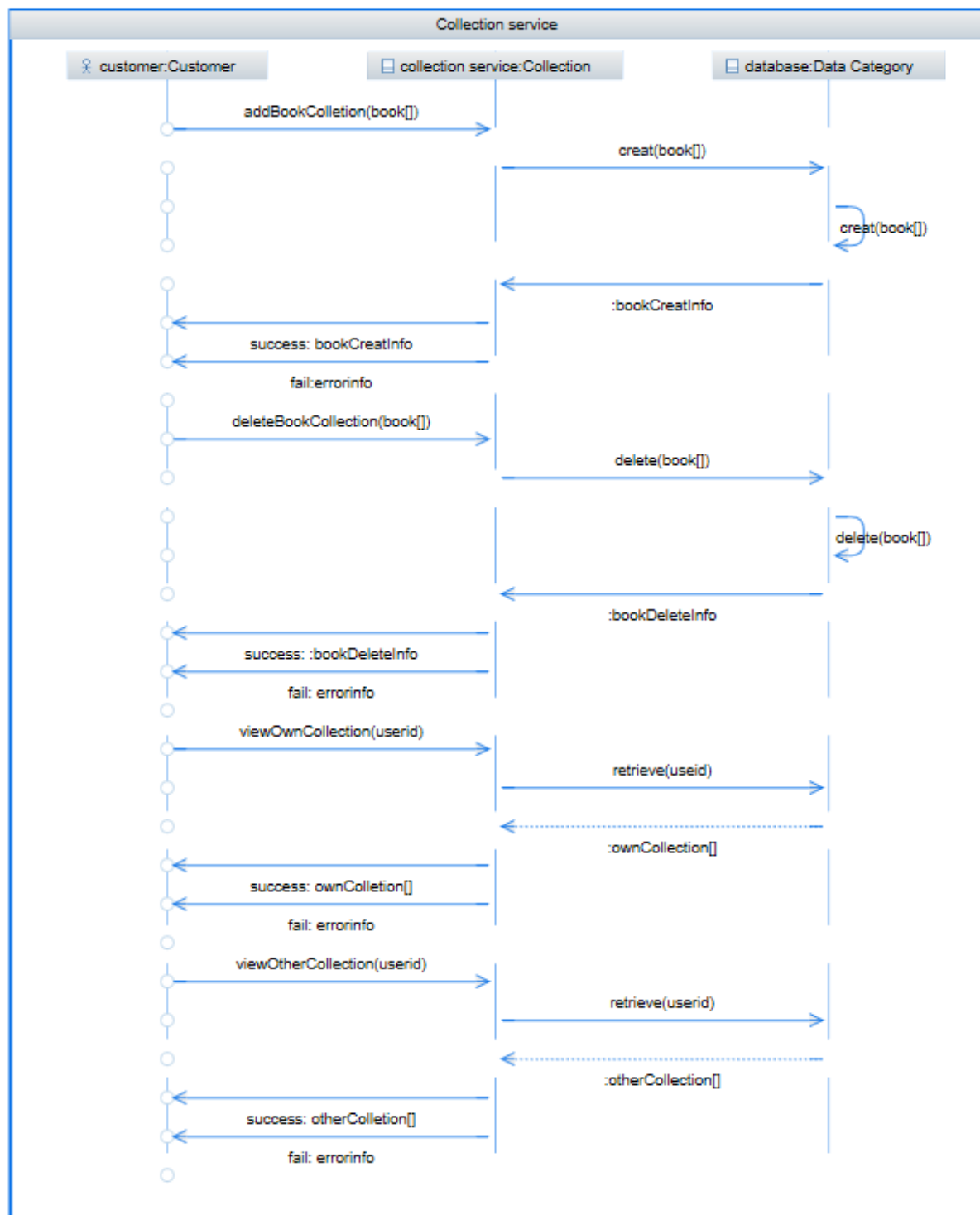
1. The methods declared in the class diagram are actually **static methods**. In a formal UML Class Diagram, the static methods should be underlined. But the current version of HCL Design Room LIVE! does not support underlined methods.
2. Each class in the class diagram corresponds to a REST resource. The (static) methods are either implemented by Loopback framework or customized **remote method**.

Sequence Diagram

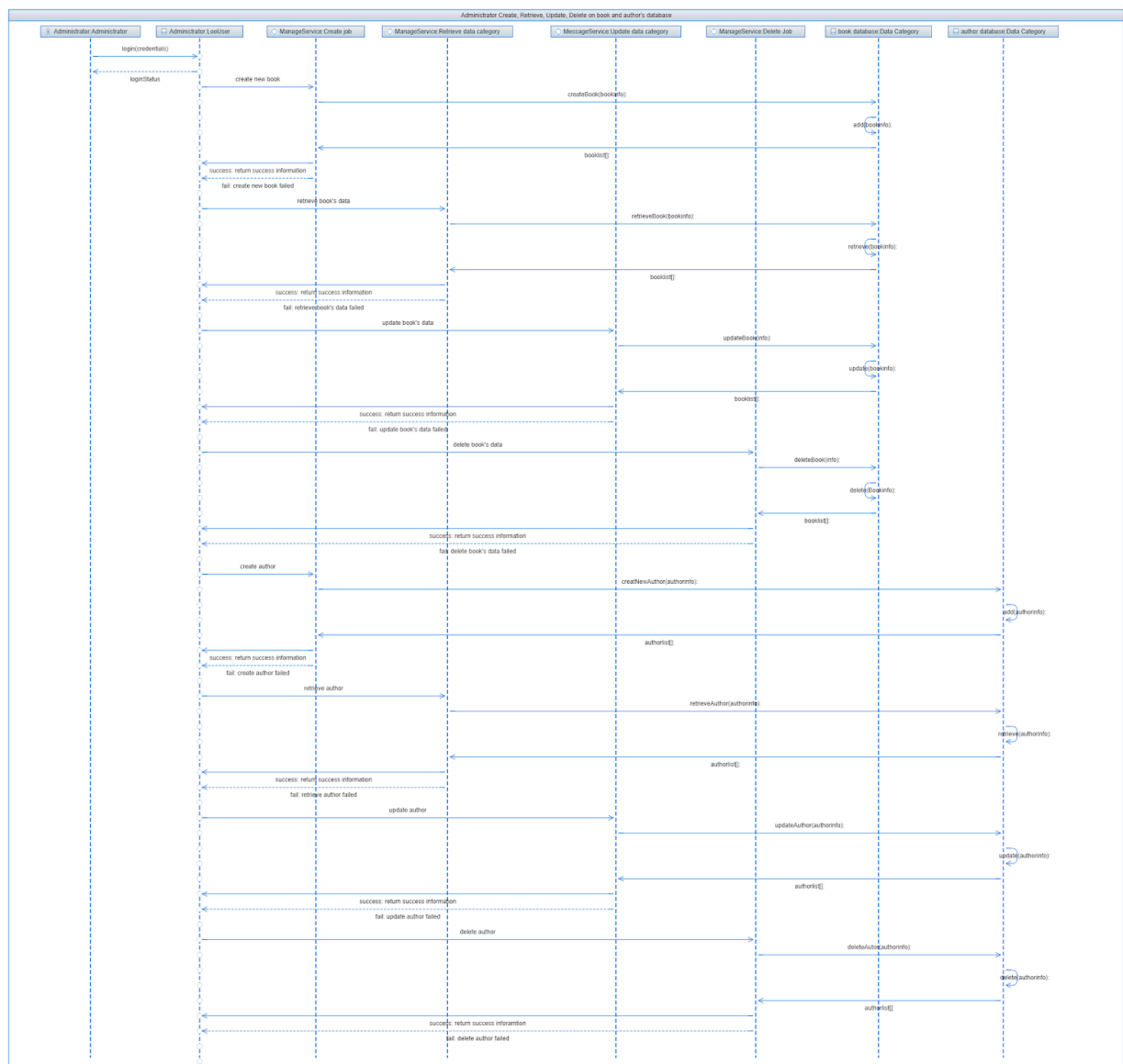
Customer Search Service:



Customer Collection Service:



Administrator Service:



Deployment Diagram

