Context: This is a writing sample where I have documented two APIs for a simplified fictional online library application (https://hangoutlibrary.com). Let's assume that the following two features of the application have been implemented:

- Obtaining a list of books already checked out by a member
- Placing a specific book on hold

I have documented the two APIs for these two features as below.

API Reference

Checkedoutbooks

Contains information about checked out books, including each book title, author's name, number of times each book has been renewed, its due date, and the corresponding shelf numbers in the library.

Endpoints

GET checkedoutbooks/{librarycardnumber}
Retrieves the list of books checked out against a specific library card number.

Parameters

Path parameters

Path Parameter	Description
{librarycardnumber}	The value for the library card number of the library member whose checked out books you want to look up.

Query string parameters

No query string parameters.

Sample request

```
curl -I -X GET
"https://hangoutlibrary.com/checkedoutbooks/12345678901234"
```

Sample response

```
{
  "librarycardnumber": 12345678901234,
  "member": "Sam Charles",
  "checkedoutbooks": [
    {
      "title": "Lucky duck",
      "author": "Greg Pizzoli",
      "renewalcount": 1,
      "duedate": "2025-06-28",
      "shelfnumber": "Y 823.914 NEL"
    },
    {
      "title": "Christmas at Hogwarts",
      "author": "J. K. Rowling",
      "renewalcount": 2,
      "duedate": "2025-06-28",
      "shelfnumber": "Y 831.924 MEL"
    }
  ]
}
```

Response definitions

The following table describes each item in the response.

Response item	Description	Data Type
librarycardnumber	Unique identifying library card number belonging to a member.	Object
member	Member whose checked out books you want to retrieve.	Object
title	Book title.	String
author	Author of the book.	String
renewalcount	Number of times you have renewed the book.	Integer
duedate	The date by when the book needs to be returned.	String
shelfnumber	The shelf number where the book belongs.	Integer

HTTP Codes

HTTP Code	Meaning
200	Books list successfully retrieved
400	Invalid library card number supplied

Placebookonhold

Places a specific book in the library on hold for the member.

Endpoints

<mark>PUT</mark> placebookonhold/{librarycardnumber}

Paces a book on hold for a specific library card number.

Parameters

Path parameters

Path parameter	Description
{librarycardnumber}	The value for the library card number of the library member whose book needs to be kept on hold.

Query string parameters

Query string parameter	Required/Optional	Description	Type
{booktitle}	Required	The title of the book that needs to be kept on hold.	String

Sample request

```
curl -I -X PUT
"https://hangoutlibrary.com/placebookonhold/12345678901234?booktitle=
Heidi"
```

Responses

Sample response

Sample response for a successful operation

```
{
  "librarycardnumber": 12345678901234,
  "status": "on hold",
  "complete": true
}
```

Response definitions

The following table describes each item in the response.

Response item	Description	Data Type
librarycardnumber	Unique identifying library card number belonging to a member.	Object
status	Status of the book in the library.	Object
complete	Status of the operation	Object

HTTP Codes

HTTP Code	Meaning
200	Book placed on hold successfully
400	Invalid library card number supplied
401	Invalid book title supplied