

Books

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List all books

GET /books

Response

Status: 200 OK

```
[
  {
    "title": "Lord of the Flies",
    "checked_out": false,
    "author_last_name": "Golding",
    "id": "5066549580791808",
    "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACQw",
    "author_first_name": "William",
    "page_count": 350
  },
  {
    "title": "To Kill a Mockingbird",
    "checked_out": false,
    "author_last_name": "Lee",
    "id": "5629499534213120",
    "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACgw",
    "author_first_name": "Harper",
    "page_count": 281
  },
  {
    "title": "Animal Farm",
    "checked_out": True,
    "author_last_name": "Orwell",
    "id": "6192449487634432",
    "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACww",
    "author_first_name": "George",
    "page_count": 112
  }
]
```

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List only available books

GET /books/available

Response

Status: 200 OK

```
[
  {
    "title": "Lord of the Flies",
    "checked_out": false,
    "author_last_name": "Golding",
    "id": "5066549580791808",
    "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACQw",
    "author_first_name": "William",
    "page_count": 350
  },
  {
    "title": "To Kill a Mockingbird",
    "checked_out": false,
    "author_last_name": "Lee",
    "id": "5629499534213120",
    "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACgw",
    "author_first_name": "Harper",
    "page_count": 281
  }
]
```

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List a single book

```
GET /book/{book_key}
```

Response

Status: 200 OK

```
{
  "title": "Animal Farm",
  "checked_out": false,
  "author_last_name": "Orwell",
  "id": "6192449487634432",
  "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACww",
  "author_first_name": "George",
  "page_count": 112
}
```

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Create a book

New book will be created with the `checked_out` property set to `false`

POST /books

Input

Name	Type	Description
<code>title</code>	<code>string</code>	Required. Title of book
<code>author_first_name</code>	<code>string</code>	Required. Author's first name
<code>author_last_name</code>	<code>string</code>	Required. Author's last name
<code>page_count</code>	<code>integer</code>	Required. Number of pages

```
{
  "title": "Animal Farm",
  "author_first_name": "George",
  "author_last_name": "Orwell",
  "page_count": 112
}
```

Response

Status: 201 Created

```
{
  "title": "Animal Farm",
  "checked_out": false,
  "author_last_name": "Orwell",
  "id": "6192449487634432",
  "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACww",
  "author_first_name": "George",
  "page_count": 112
}
```

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Edit a book

You can not change the value of `checked_out` using this verb

```
PATCH /book/{book_key}
```

Input

Name	Type	Description
<code>title</code>	<code>string</code>	Optional. Title of book
<code>author_first_name</code>	<code>string</code>	Optional. Author's first name
<code>author_last_name</code>	<code>string</code>	Optional. Author's last name
<code>page_count</code>	<code>integer</code>	Optional. Number of pages

```
{
  "title": "Like a Rolling Stone",
  "author_first_name": "Bob",
  "author_last_name": "Dylan",
  "page_count": 1965
}
```

Response

Status: 200 OK

```
{
  "title": "Like a Rolling Stone",
  "checked_out": false,
  "author_last_name": "Dylan",
  "id": "6192449487634432",
  "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACww",
  "author_first_name": "Bob",
  "page_count": 1965
}
```

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Check out a book

Checking out a book will update the `book.checked_out` value to `True` as well as add the `book.title` to the `member.current_book` list of the member that checked the book out.

```
PATCH /book/{book_key}/checkout
```

Input

Name	Type	Description
<u>id</u>	<u>string</u>	Required. ID of member who is checking the book out

```
{
  "id": "4644337115725824"
}
```

Response

```
Status: 200 OK
```

```
{book_title} has been checked out to {member_first_name} {member_last_name}
```

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Return a book

Returning a book will update the `book.checked_out` value to `False` as well as remove the `book.id` from the `member.current_book` list of the member that checked the book out.

```
PATCH /book/{book_key}/return
```

Input

None. Any data sent in the body will not be used in this call.

Response

```
Status: 200 OK
```

```
{member_first_name} {member_last_name} has returned {book_title}
```

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Delete a book

If a book is currently checked out, it will be removed from the `member.current_books` list.

```
DELETE /book/{book_key}
```

Response

Status: 200 OK

Book has been removed

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List all members

GET /members

Response

Status: 200 OK

```
[
  {
    "current_books": [
      "5066549580791808"
    ],
    "phone_number": "555-621-1234",
    "first_name": "John",
    "id": "4644337115725824",
    "self": "/members/aghkZXZ-Tm9uZXITCxIGTWVtYmVyGICAgICAgKAIDA",
    "last_name": "Smith"
  },
  {
    "current_books": [],
    "phone_number": "555-621-4321",
    "first_name": "Ted",
    "id": "5770237022568448",
    "self": "/members/aghkZXZ-Tm9uZXITCxIGTWVtYmVyGICAgICAgKAKDA",
    "last_name": "Johnson"
  }
]
```

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List a single member

```
GET /members/{member_key}
```

Response

Status: 200 OK

```
{
  "current_books": [
    "5066549580791808"
  ],
  "phone_number": "555-621-1234",
  "first_name": "John",
  "id": "4644337115725824",
  "self": "/members/aghkZXZ-Tm9uZXITCxIGTWVtYmVyGICAgICAgKAIDA",
  "last_name": "Smith"
}
```

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List a single member's books

```
GET /members/{member_key}/books
```

Response

Status: 200 OK

```
[
  {
    "title": "Lord of the Flies",
    "checked_out": false,
    "author_last_name": "Golding",
    "id": "5066549580791808",
    "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACQw",
    "author_first_name": "William",
    "page_count": 350
  },
  {
    "title": "To Kill a Mockingbird",
    "checked_out": false,
    "author_last_name": "Lee",
    "id": "5629499534213120",
    "self": "/books/aghkZXZ-Tm9uZXIRCxIEQm9vaxiAgICAgICACgw",
    "author_first_name": "Harper",
    "page_count": 281
  }
]
```

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Create a member

POST /members

Input

Name	Type	Description
first_name	<u>string</u>	Required. First name of member
last_name	<u>string</u>	Required. Last name of member
phone_number	<u>string</u>	Required. Phone number of member

```
{
  "first_name": "Ted",
  "last_name": "Johnson",
  "phone_number": "555-621-4321"
}
```

Response

Status: 201 Created

```
{
  "current_books": [],
  "phone_number": "555-621-4321",
  "first_name": "Ted",
  "id": "5770237022568448",
  "self": "/members/aghkZXZ-Tm9uZXITCxIGTWVtYmVyGICAgICAgKAKDA",
  "last_name": "Johnson"
}
```

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Edit a member

You can not change the `member.current_books` list using this verb. Only the paths for checking_out and returning books will change the `current_books` list.

```
PATCH /members/{member_key}
```

Input

Name	Type	Description
<code>first_name</code>	<code>string</code>	Optional. First name of member
<code>last_name</code>	<code>string</code>	Optional. Last name of member
<code>phone_number</code>	<code>string</code>	Optional. Phone number of member

```
{
  "phone_number": "123-456-7890"
}
```

Response

Status: 200 OK

```
{
  "current_books": [],
  "phone_number": "123-456-7890",
  "first_name": "Ted",
  "id": "5770237022568448",
  "self": "/members/aghkZXZ-Tm9uZXITCxIGTWVtYmVyGICAgICAgKAKDA",
  "last_name": "Johnson"
}
```

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Delete a member

If a member currently has books checked out to them, they will all have their `checked_out` values changed to `False` prior to the member deletion

```
DELETE /member/{member_key}
```

Response

Status: `200` OK

Member has been removed

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