Get the book shelf by name/isbn/genre/author of the book

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| **GET** /books/shelf/?queryParam=value | |
| Can Access: | Librarian or Reader |
| Query params description: | name - name of book whose shelf we want to receive.  isbn – isbn code of book whose shelf we want to receive.  genre – genre of book whose shelf we want to receive.  author – author of book whose shelf we want to receive. |
| Responses: | |
| 200 Ok | Returns content of something with provided params. |
| 400 Bad Request | Required parameter name was not provided |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| [{      shelf: number;      id: string;  }] | |

Add a new book

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| **POST**/books/add | |
| Can Access: | Librarian |
| Query params description: | name(required) - name of book that we want to create  isbn(required) – isbn code of book that we want to create  genre(required) – genre of book that we want to create  author(required) – author of book that we want to create  shelf(required) – shelf of the book that we want to create |
| Request body: | |
| {  isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  } | |
| Responses: | |
| 201 Create | Book successfully created |
| 400 Bad Request | Required parameter name was not provided |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| {     isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  id: string;  books: [{  readerID: string:  startDate: date;  endDate: date;  }];  dateOfReturning: Date;  } | |

Move the book to another shelf

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| **PUT**/books/changeShelf/:id | |
| Can Access: | Librarian |
| Params description: | id – ID of a book that we want to move to another shelf. |
| Query params description: | shelf (required) – a new shelf |
| Request body: | |
| {      shelf: string  } | |
| Responses: | |
| 200 Ok | Successfully updated shelf with provided ID. |
| 404 Not Found | There is no thing with provided ID |
| 400 Bad Request | Required parameter name was not provided |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| {      shelf: string  id: string  } | |

Get information of the book

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| **GET**/books/:id | |
| Can Access: | Librarian |
| Params description: | Id – id of the book |
| Responses: | |
| 200 Ok | Get appropriate information |
| 404 Not found | There is no thing with provided ID |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| {     isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  currentReader: string;  dateOfReturning: Date;  books: [{  readerID: string:  startDate: date;  endDate: date;  }];  id: string;  } | |

Get the books of readers

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| **GET**/readers/:id/books | |
| Can Access: | Librarian |
| Params description: | Id – id of the book |
| Responses: | |
| 200 Ok | Get appropriate information |
| 404 Not found | There is no thing with provided ID |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| [{     isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  currentReader: string;  books: [{  readerID: string:  startDate: date;  endDate: date;  }];  dateOfReturning: Date;  id: string;  }] | |

Get the taken books

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| **GET**/books/taken | |
| Can Access: | Librarian and reader |
| Responses: | |
| 200 Ok | Get appropriate information |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| [{     isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  currentReader: string;  books: [{  readerID: string:  startDate: date;  endDate: date;  }];  dateOfReturning: Date;  id: string;  }] | |

Book a book 😊

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| **PUT**/books/book/:id | |
| Can Access: | Reader |
| Params description: | id – ID of a book that we want to move to another shelf. |
| Query params description: | readerId(required) – reader ID  startDate(required) – start booking date  endDate(required) – end booking date |
| Request body: | |
| {  readerId: string:  startDate: date;  endDate: date;  } | |
| Responses: | |
| 200 Ok | Successfully booked a book |
| 400 Bad Request | Required parameter name was not provided |
| 403 Forbidden | A book already booked for provided period of time |
| 404 Not Found | There is no thing with provided ID |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| {     isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  currentReader: string;  books: [{  readerID: string:  startDate: date;  endDate: date;  }];  dateOfReturning: Date;  id: string;  } | |

Reject a booking

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| **PUT**/books/rejectBooking/:id | |
| Can Access: | Reader |
| Params description: | id – ID of a book those booking wanted to cancel |
| Query params description: | readerId(required) – reader ID |
| Request body: | |
| {  readerId: string:  } | |
| Responses: | |
| 200 Ok | Successfully rejected the booking |
| 400 Bad Request | Required parameter name was not provided |
| 404 Not Found | There is no thing with provided ID |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| {     isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  currentReader: string;  books: [{  readerID: string:  startDate: date;  endDate: date;  }];  dateOfReturning: Date;  id: string;  } | |

Get books from a shelf

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| **GET**/shelfs/:name | |
| Can Access: | Librarian and Reader |
| Params description: | name – name of the shelf |
| Responses: | |
| 200 Ok | Get appropriate information |
| 404 Not found | There is no thing with provided name |
| 505 Internal Server Error | Something went wrong on the server |
| Response body on success: | |
| {      isbn: string;      name: string;      author: string;      genre: string;  shelf: string;  currentReader: string;  dateOfReturning: Date;  books: [{  readerID: string:  startDate: date;  endDate: date;  }];  id: string;  } | |