GET

remlib/books – list of all books in alphabetic order

remlib/books/{id} – book by id, 404 if not found

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| --- | --- | --- | --- | --- | --- |
| HTTP Method | Resource endpoint | Input | Success Response | Error response | Description |
| GET | /books | Body: Empty | Status: 200  Body: List of publications sorted in alphabetic order | Status: 404 | Retrieves all available publications |
| GET | /books/{id} | Body: Empty | Status: 200  Body: publication data | Status: 404 | Retrieves an existing publication |
| POST | /books | Body: New book data | Status: 201  Body: Newly created publication id | Status: 500 | Creates a new publication |
| PUT | /books/{id} | Body: Updated book data | Status: 200  Body: publication id | Status: 500 | Updates a publication if it exists or creates a new one if does not exist |
| DELETE | /books/{id} | Body: Empty | Status: 200  Body: Empty | Status: 500 | Deletes a publication with given index |
|  |  |  |  |  |  |
| GET | /users | Body: Empty | Status: 200  Body: List of Users sorted by surname then name | Status: 404 | Retrieves all users |
| GET | /users/{id} | Body: Empty | Status: 200  Body: User data | Status: 404 | Retrieves user data |
| POST | /users | Body: New user data | Status: 201  Body: Newly registered user id | Status: 500 | Registers a new user |
| PUT | /users/{id} | Body: Updated user data | Status: 200  Body: user id | Status: 500 | Updates a user if it exists |
| DELETE | /user/{id} | Body: Empty | Status: 200  Body: Empty | Status: 500 | Deletes a user with given index |
| POST | /books/{id}/request/{user\_id} | Body: Empty | Status: 200  Body: empty | Status: 500 | Requests a book for a specific user |
| POST | /books/{id}/checkin/{user\_id} | Body: Empty | Status: 200  Body: Empty | Status: 500 | Checks in book for a specific user |
| POST | /books/{id}/checkout/{user\_id} | Body: Empty | Status: 200  Body: Empty | Status: 500 | Checks out book for a specific user |
| POST | /users/{id}/write | Body: Message | Status: 200  Body: Empty | Status: 500 | Writes a message to the specific user |
| GET | /books/search | Body: Searching string | Status: 200  Body: List of found publications | Status: 404 | Retrieves all publication that match the given string |
| GET | /books/catalog/ | Body: Empty | Status: 200  Body: List of catalog entries | Status 404 | Retrieves all catalog entries |
| GET | /books/catalog/{book\_id} | Body: Empty | Status: 200  Body: Catalog entry by given publication id | Status 404 | Retrieves catalog entry for a given publication id |

Publication

{

"identifier": int not null,

"title": string - not null; max 500,

"subject": {

"id": int,

"name": string max 200

},

"descripiton": {

"text": string max 3000,

"photo": byte[]

},

"creator": string max 200,

"source": string max 200,

"publisher": string not null max 200,

"publication\_date": date past not null,

"contributor": string max 600,

"rights": string max 200,

"format": string not null max 100,

"language": string not null max 10,

"type": {

"id": int,

"type": string not null max 100

},

"edition": string max 50

}

USER

{

"email": string not null @knu.ua max 50,

"name": string not null max 50

"surname": string not null max 50

"patronymic": string max 50

"birthday": date past min 14 years

"phone": string phone pattern

"fee": double >= 0

"role": {

"id" int not null

"role": string not null max 20

}

}

Catalog Entry

{

"id": int not null

"publication": {

"identifier": int not null,

"title": string - not null; max 500,

"subject": {

"id": int,

"name": string max 200

},

"descripiton": {

"text": string max 3000,

"photo": byte[]

},

"creator": string max 200,

"source": string max 200,

"publisher": string not null max 200,

"publication\_date": date past not null,

"contributor": string max 600,

"rights": string max 200,

"format": string not null max 100,

"language": string not null max 10,

"type": {

"id": int,

"type": string not null max 100

},

"edition": string max 50

},

"library": {

"id": int not null

"name": string not null max 200

"address": string not null max 200

},

"item\_number": string not null max 20,

"status": {

"id": int not null

"status": string not null max 30

},

"available\_from": date present or future

"copies\_number": int not null >0,

"copies\_available": int not null >=0,

"loan\_days": int not null max 300

}

Loan card

{

"id": int not null

"user": {

"email": string not null @knu.ua max 50,

"name": string not null max 50

"surname": string not null max 50

"patronymic": string max 50

"birthday": date past min 14 years

"phone": string phone pattern

"fee": double >= 0

},

"catalog\_entry": {

"id": int not null

"publication": {

"identifier": int not null,

"title": string - not null; max 500,

"subject": {

"id": int,

"name": string max 200

},

"descripiton": {

"text": string max 3000,

"photo": byte[]

},

"creator": string max 200,

"source": string max 200,

"publisher": string not null max 200,

"publication\_date": date past not null,

"contributor": string max 600,

"rights": string max 200,

"format": string not null max 100,

"language": string not null max 10,

"type": {

"id": int,

"type": string not null max 100

},

"edition": string max 50

},

"library": {

"id": int not null

"name": string not null max 200

"address": string not null max 200

},

"item\_number": string not null max 20,

"status": {

"id": int not null

"status": string not null max 30

},

"available\_from": date present or future

"copies\_number": int not null >0,

"copies\_available": int not null >=0,

"loan\_days": int not null max 300

},

"loan\_status": {

"id": int not null,

"status": string not null max 30,

},

"checked\_out\_date": date present or past,

"loan\_until": date

"available\_from": date future or now

"notes": string max 3000

}