User Model

| Name | Туре | Comment |
|-----------|--------|-----------------|
| firstName | String | User first name |
| lastName | String | User last name |
| id | UUID | User id |

Create User

Endpoint

POST /api/users

Descriptions

Creates user from a given payload and returns created user model

Payload

| Name | Туре | Comment |
|-----------|--------|-----------------|
| firstName | String | User first name |
| lastName | String | User last name |

Response

| Response code (HTTP status) | Comment | |
|-----------------------------|--|--|
| 201 | User has been created. Returns user model | |
| 400 | User has not been created because of wrong | |
| | input | |

Update User

Endpoint

PUT /api/users/<id>

Description

Updates user with given ID and returns updated user model

Payload

| Name | Туре | Comment |
|-----------|--------|-----------------|
| firstName | String | User first name |
| lastName | String | User last name |

| Response code (HTTP status) | Comment | |
|-----------------------------|--|--|
| 200 | User has been updated. Returns user model | |
| 400 | User has not been updated because of wrong input | |
| 404 | User with given ID not found | |

Get User

Endpoint

GET /api/users/<id>

Description

Gets user with given ID

Response

| Response code (HTTP status) | Comment | |
|-----------------------------|------------------------------|--|
| 200 | User has been returned | |
| 404 | User with given ID not found | |

Get User Collection

Endpoint

GET /api/users?maxResults=<maxResult>&offset=<offset>&orderBy=<orderBy>&order=<order>

Description

Gets user collection, supports pagination

Query Parameters

| Name | Туре | Comment |
|------------|---------|-----------------------------------|
| maxResults | Integer | Max number of users in |
| | | collection. Default value is 50 |
| offset | Integer | Offset for the first user in |
| | | collection. Default value is 0 |
| orderBy | String | Which field to use for sorting |
| order | String | Possible values: 'asc' or 'desc'. |
| | | Ascending or descending |

| Response code (HTTP status) | Comment | |
|-----------------------------|--|--|
| 200 | Returns JSON structure containing 2 fields: | |
| | total (Integer) – total number of users in | |
| | the system | |
| | values (list of users) – list of requested | |
| | and sorted users according to pagination | |
| | parameters | |

Book Model

| Name | Туре | Comment |
|------------|--------|-------------------------|
| authorName | String | Full name of the author |
| bookTitle | String | Book title |
| id | UUID | Book id |

Create Book

Endpoint

POST /api/books

Descriptions

Creates book from a given payload and returns created book model

Payload

| Name | Туре | Comment |
|-----------|--------|-------------------------|
| author | String | Full name of the author |
| bookTitle | String | Book title |

Response

| Response code (HTTP status) | Comment | |
|-----------------------------|--|--|
| 201 | Book has been created. Returns book model | |
| 400 | Book has not been created because of wrong | |
| | input | |

Update Book

Endpoint

PUT /api/books/<id>

Description

Updates book with given ID and returns updated book model

Payload

| Name | Туре | Comment |
|------------|--------|-------------------------|
| authorName | String | Full name of the author |
| bookTitle | String | Book title |

| Response code (HTTP status) | Comment |
|-----------------------------|--|
| 200 | Book has been updated. Returns book model |
| 400 | Book has not been updated because of wrong input |
| 404 | Book with given ID not found |

Get Book

Endpoint

GET /api/books/<id>

Description

Gets book with given ID

Response

| Response code (HTTP status) | Comment |
|-----------------------------|------------------------------|
| 200 | Book has been returned |
| 404 | Book with given ID not found |

Get Book Collection

Endpoint

GET /api/books?maxResults=<maxResult>&offset=<offset>&orderBy=<orderBy>&order=<order>

Description

Gets book collection, supports pagination

Query Parameters

| Name | Туре | Comment |
|------------|---------|-----------------------------------|
| maxResults | Integer | Max number of books in |
| | | collection. Default value is 20 |
| offset | Integer | Offset for the first book in |
| | | collection. Default value is 0 |
| orderBy | String | Which field to use for sorting |
| order | String | Possible values: 'asc' or 'desc'. |
| | | Ascending or descending |

| Response code (HTTP status) | Comment |
|-----------------------------|--|
| 200 | Returns JSON structure containing 2 fields: |
| | total (Integer) – total number of books in |
| | the system |
| | values (list of books) – list of requested |
| | and sorted books according to pagination |
| | parameters |

Card Model

| Name | Туре | Comment |
|------------|------|---------------------|
| userld | UUID | User id number |
| [| | |
| bookld, | UUID | Book id number |
| startDate, | long | Date of taking book |
| endDate | long | Date of return book |
|] | | |
| id | UUID | Card id |

Create Card

Endpoint

POST /api/cards

Descriptions

Creates card from a given payload and returns created card model

Payload

| Name | Туре | Comment |
|--------|------|---------|
| userId | UUID | User id |

Response

| Response code (HTTP status) | Comment |
|-----------------------------|--|
| 201 | Card has been created. Returns card model |
| 400 | Card has not been created because of wrong input |
| 404 | User with given ID not found |

Update Card (taking book)

Endpoint

PUT /api/cards/<cardId>

Description

Adding startDate for book with given Book ID in card with given Card ID and returns updated card model

Payload

| Name | Туре | Comment |
|-----------|------|---------------------|
| bookld | UUID | Book id |
| startDate | Long | Date of taking book |

| Response code (HTTP status) | Comment |
|-----------------------------|--|
| 200 | Book has been added. Returns card model |
| 400 | Book has not been added because of wrong input |

| 404 | Book with given ID not found | |
|-----|--|--|
| 409 | Returns JSON structure : | |
| | - {"errorMessage": "Oops, book was | |
| | already taken"} | |

Update Card (return book)

Endpoint

PUT /api/cards/<cardId>

Description

Adding endDate for book with given Book ID in card with given Card ID and returns updated card model

Payload

| Name | Туре | Comment |
|---------|------|---------------------|
| bookld | UUID | Book id |
| endDate | Long | Date of return book |

Response

| Response code (HTTP status) | Comment | |
|-----------------------------|--|--|
| 200 | endDate for book has been added. Returns card | |
| | model | |
| 400 | endDate for book has not been added because of | |
| | wrong input | |
| 404 | Book with given ID not found | |
| | | |
| 409 | Returns one JSON structure of the following: | |
| | - {"errorMessage": "Oops, the book has | |
| | already been returned "} | |
| | - {"errorMessage": "Oops, the book was | |
| | not taken "} | |

Get Card

Endpoint

GET /api/cards/<id>

Description

Gets card with given ID

| Response code (HTTP status) | Comment |
|-----------------------------|--|
| 200 | Card has been returned (with info about User and |
| | Book) |
| 404 | Card with given ID not found |
| | |

Get Card Collection

Endpoint

GET /api/cards?bookId=<bookId>&maxResults=<maxResult>&offset=<offset>&orderBy>&order=<order>

Description

Gets card collection for given Book ID, supports pagination

Query Parameters

| Name | Туре | Comment |
|------------|---------|-----------------------------------|
| bookId | UUID | Book ID |
| maxResults | Integer | Max number of cards in |
| | | collection. Default value is 10 |
| offset | Integer | Offset for the first card in |
| | | collection. Default value is 0 |
| orderBy | String | Which field to use for sorting |
| order | String | Possible values: 'asc' or 'desc'. |
| | | Ascending or descending |

Response

| Response code (HTTP status) | Comment |
|-----------------------------|---|
| 200 | Returns JSON structure containing 2 fields: |
| | total (Integer) – total number of cards for |
| | given Book ID |
| | values (list of cards) – list of requested |
| | and sorted cards according to pagination |
| | parameters |

Get User Card

Endpoint

GET /api/cards?userId=<userId>

Description

Gets card for given User ID

| Response code (HTTP status) | Comment |
|-----------------------------|--|
| 200 | Card has been returned (with info about User and |
| | Book) |
| 404 | Card with given ID not found |
| | |