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Users table

1) POST user

Operation Information	Operation Number	1	Operation Name	users
	Operation Type	POST		
	Operation Description	Create a new user. User password is hashed using the bcrypt algorithm before being stored in the database		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
first_name	string	1	“John”	First name of the user
last_name	string	1	“Doe”	Last name of the user
birth_date	datetime	0	“2002-03-18”	Birth date of the user
email	string	1	“example@email.com”	Email of the user
password	string	1	“password123”	Password of the user
gender	enum	0	female	Gender of the user
is_admin	boolean	1	false	Is the user an admin ?
address	string	0	“10 vic street”	Address of the user
phone_number	string	1	“010-1234-5678”	Phone number of the user

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	"User successfully created"	Request message
payload.user_id	integer	1	1	Generated user unique ID

3. Request Message Example

```
{
  "first_name": "John",
  "last_name": "Doe",
  "birth_date": "2002-03-18",
  "email": "example@email.com",
  "password": "password123",
  "gender": "female",
  "is_admin": "false",
  "address": "10 vic street",
  "phone_number": "010-1234-5678"
}
```

4. Response Message Example

```
{
  "is_success": true,
  "message": "User successfully created.",
  "payload": {
    "user_id": 1
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 400,
    "message": "Invalid input: email is required"
  }
}
```

Status code

Code	Meaning
201 CREATED	User successfully created
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	User already in the database
500 Internal Server Error	Unexpected server error

2) POST login

Operation Information	Operation Number	1	Operation Name	login
	Operation Type	POST		
	Operation Description	Log in a user. User password are hashed using the bcrypt algorithm before being stored in the database		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
email	string	1	“example@email.com”	Email of the user
password	string	1	“password123”	Password of the user

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“User successfully logged in”	Request message
payload.access_token	string	1	“eyJhbGciOiJIUzI1NiJ9...”	Generated unique token
payload.refresh_token	string	1	“eyJhbGciOiJIUzI1NiJ9...”	Generated unique refresh token
payload.user.id	integer	1	1	Returns the id of the user who logs in
payload.user.is_admin	boolean	1	false	Return true if the user is admin, false if not

3. Request Message Example

```
{
  "email": "example@email.com",
  "password": "password123",
}
```

4. Response Message Example

```
{
  "is_success": true,
  "message": "User successfully logged in",
  "payload": {
    "access_token":
"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiIxIiwicm9sZXMi0lsiUk9MRV9VU0VSIl0sImlhdCI6MTc10DM4MzI3MCwiZXhwIjoxNzU4Mzg0MTcwfQ.zBNK9FrADut2m__t5YDymHISKo2tL2nox4dGSb0dzA",
    "refreshToken":
"eyJhbGciOiJIUzI1NiJ9.eyJzdWIiOiIxIiwiaWF0IjoxNzU4MzgzMjcwLCJleHAiOjE3NTg50DgwNzB9.cgEutUKcZPH3PwogxBadHKK4PP9sjlNclfH8v4oECo",
    "user": {
      "id": 1,
      "is_admin": "false",
    }
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 400,
    "message": "Wrong password"
  }
}
```

Status code

Code	Meaning
200 OK	User successfully logged in
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	User not found
500 Internal Server Error	Unexpected server error

3) POST logout

Operation Information	Operation number	1	Operation Name	logout
	Operation Type	POST		
	Operation Description	Log out a user. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

[REDACTED]

4. Response Message Example

[REDACTED]

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 403,
    "message": "Token has expired"
  }
}
```

Status code

Code	Meaning
204 NO CONTENT	User successfully logged out
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	User not found
500 Internal Server Error	Unexpected server error

4) GET user (me)

Operation Information	Operation number	2	Operation Name	users
	Operation Type	GET		
	Operation Description	Get information for the current user. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Request Success Status
message	string	1	Information correctly retrieved	Request message
payload.user_id	integer	1	2	Unique Id of the user
payload.first_name	string	1	“John”	First name of the user
payload.last_name	string	1	“Doe”	Last name of the user
payload.birth_date	datetime	0	“2002-03-18”	Birth date of the user
payload.email	string	1	“example@email.com”	Email of the user
payload.gender	enum	0	“female”	Gender of the user
payload.address	string	0	“10 vic street”	Address of the user
payload.phone_number	string	1	“010-1234-5678”	Phone number of the user

3. Request Message Example

4. Response Message Example

```
{
  "is_success": true,
  "message": "User information successfully retrieved.",
  "payload": {
    "user_id": 1,
    "first_name": "John",
    "last_name": "Doe",
    "birth_date": "2002-03-18",
    "email": "example@email.com",
    "gender": "female",
    "address": "10 vic street",
    "phone_number": "010-1234-5678"
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 404,
    "message": "User not found"
  }
}
```

Status code

Code	Meaning
200 OK	User information successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	User not found
500 Internal Server Error	Unexpected server error

5) PATCH user

Operation Information	Operation number	3	Operation Name	users
	Operation Type	PATCH		
	Operation Description	Modify a part of a user's information. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
email	string	1	“new.mail@gmail.com”	New email of the user

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“The user has been successfully modified.”	Request message
payload.user_id	integer	1	1	Unique id of the user
payload.updated_at	timestamp	1	“2025-09-15T21:56:12.726074”	Date of modification

3. Request Message Example

```
{
  "email": "new.mail@gmail.com",
}
```

4. Response Message Example

```
{
  "is_success": true,
  "message": "The user has been successfully modified.",
  "payload": {
    "user_id": 1,
    "updated_at": "2025-09-15T21:56:12.726074"
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 403,
    "message": "Token has expired"
  }
}
```

Status code

Code	Meaning
200 OK	User successfully modified
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	User not found
500 Internal Server Error	Unexpected server error

6) DELETE user (soft-delete)

Operation Information	Operation number	4	Operation Name	users
	Operation Type	DELETE		
	Operation Description	Deactivate a user. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>. User password is hashed using the bcrypt algorithm before being stored in the database		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
password	string	1	“password123”	Password of the user

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

```
{
    "password": "password123"
}
```

4. Response Message Example

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 400,  
        "message": "Wrong password"  
    }  
}
```

Status code

Code	Meaning
204 NO CONTENT	User successfully deactivated
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	User not found
500 Internal Server Error	Unexpected server error

7) DELETE user

Operation Information	Operation number	5	Operation Name	users
	Operation Type	DELETE		
	Operation Description	Delete a user. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 401,  
        "message": "Invalid token"  
    }  
}
```

Status code

Code	Meaning
204 NO CONTENT	User successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	User not found
500 Internal Server Error	Unexpected server error

Books table

1) POST book

Operation Information	Operation number	1	Operation Name	books
	Operation Type	POST		
	Operation Description	Add a new book to the bookstore. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
title	string	1	“Book Title”	Title of the book
author	string	1	“John Doe”	Author of the book
publication_date	datetime	1	“2020-03-21”	Date of publication of the book
literary_genre	enum	1	“Fantastic”	Literary genre of the book
price	decimal	1	10.5	Price of the book
summary	string	1	“Lorem ipsum...”	Summary of the book
publisher	string	1	“Gallimard”	Publisher of the book
isbn	string	1	“12345678”	Isbn of the book

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	"Book successfully added"	Request message
payload.book_id	integer	1	1	Unique id of the book
payload.created_at	timestamp	1	"2025-09-15T22:01:15.1610229"	Date of add

3. Request Message Example

```
{
    "title": "Book Title",
    "author": "John Doe",
    "publication_date": "2020-03-21",
    "literary_genre": "Fantastic",
    "price": 10.5,
    "summary": "Lorem ipsum ...",
    "publisher": "Gallimard",
    "isbn": "12345678",
}
```

4. Response Message Example

```
{
    "is_success": true,
    "message": "Book successfully added.",
    "payload": {
        "book_id": 1,
        "created_at": "2025-09-15T22:01:15.1610229"
    }
}
```

5. Error Response Message Example

```
{
    "is_success": false,
    "error": {
        "code": 409,
        "message": "This book is already in the database"
    }
}
```

Status code

Code	Meaning
201 CREATED	Book successfully added
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	Book already in the database
500 Internal Server Error	Unexpected server error

2) GET book

Operation Information	Operation number	2	Operation Name	books
	Operation Type	GET		
	Operation Description	Retrieve a specific book		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Book successfully retrieved.”	Request message
payload.book_id	Integer	1	1	Unique id of the book
payload.title	string	1	“Book Title”	Title of the book
payload.author	string	1	“John Doe”	Author of the book
payload.publication_date	datetime	1	“2020-03-21”	Date of publication of the book
payload.literary_genre	enum	1	“Fantastic”	Literary genre of the book
payload.price	decimal	1	10.5	Price of the book
payload.summary	string	1	“Lorem ipsum...”	Summary of the book
payload.publisher	string	1	“Gallimard”	Publisher of the book
payload.isbn	string	1	“12345678”	Isbn of the book

3. Request Message Example

```
{  
    "title": "Book Title",  
    "author": "John Doe",  
    "publication_date": "2020-03-21",  
    "literary_genre": "Fantastic",  
    "price": 10.5,  
    "summary": "Lorem ipsum ...",  
    "publisher": "Gallimard",  
    "isbn": "12345678"  
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Book successfully retrieved.",  
    "payload": {  
        "title": "Book Title",  
        "author": "John Doe",  
        "publication_date": "2020-03-21",  
        "literary_genre": "Fantastic",  
        "price": 10.5,  
        "summary": "Lorem ipsum ...",  
        "publisher": "Gallimard",  
        "isbn": "12345678",  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 404,  
        "message": "Book not found"  
    }  
}
```

Status code

Code	Meaning
200 OK	Book information successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Book not found
500 Internal Server Error	Unexpected server error

3) PUT book

Operation Information	Operation number	3	Operation Name	books
	Operation Type	PUT		
	Operation Description	Modify all the information of a specific book. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
title	string	1	“NEW Book Title”	Title of the book
author	string	1	“Jane Doe”	Author of the book
publication_date	datetime	1	“2020-03-21”	Date of publication of the book
literary_genre	enum	1	“Fantastic”	Literary genre of the book
price	decimal	1	20	Price of the book
summary	string	1	“Lorem ipsum...”	Summary of the book
publisher	string	1	“Gallimard”	Publisher of the book
isbn	string	1	“12345678”	Isbn of the book

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	"Book has been successfully modified."	Request message
payload.book_id	integer	1	1	Unique id of the book
payload.updated_at	timestamp	1	"2025-10-30T22:01:15.1610229"	Date of update

3. Request Message Example

```
{
    "title": "NEW Book Title",
    "author": "Jane Doe",
    "publication_date": "2020-03-21",
    "literary_genre": "Fantastic",
    "price": 20,
    "summary": "Lorem ipsum ...",
    "publisher": "Gallimard",
    "isbn": "12345678",
}
```

4. Response Message Example

```
{
    "is_success": true,
    "message": "Book successfully modified",
    "payload": {
        "book_id": 1,
        "updated_at": "2025-10-30T22:01:15.161023"
    }
}
```

5. Error Response Message Example

```
{
    "is_success": false,
    "error": {
        "code": 400,
        "message": "Invalid input data"
    }
}
```

Status code

Code	Meaning
200 OK	Book successfully modified
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Book not found
500 Internal Server Error	Unexpected server error

4) GET book

Operation Information	Operation number	4	Operation Name	books
	Operation Type	GET		
	Operation Description	Retrieve a paginated list of books.		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Books successfully retrieved.”	Request message
payload.books.book_id	integer	1	1	Unique id of the book
payload.books.title	string	1	“Title Book”	Book title
payload.page	integer	1	1	Current page number
payload.size	integer	1	2	Number of items per page
payload.total_pages	Integer	1	5	Total number of pages
payload.total_items	Integer	1	45	Total number of books available

3. Request Message Example

```
{  
    "books": [  
        {"book_id": 1, "title": "Title Book"},  
        {"book_id": 2, "title": "Title Book"}  
    ]  
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Books successfully retrieved.",  
    "payload": {  
        "books": [  
            {  
                "book_id": 1,  
                "title": "Title Book",  
            },  
            {  
                "book_id": 2,  
                "title": "Title Book"  
            }  
        ],  
        "page": 1,  
        "size": 2,  
        "total_pages": 5,  
        "total_items": 45  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 500,  
        "message": "Unexpected server error"  
    }  
}
```

Status code

Code	Meaning
200 OK	Books successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Books not found
500 Internal Server Error	Unexpected server error

5) DELETE book

Operation Information	Operation number	5	Operation Name	books
	Operation Type	DELETE		
	Operation Description	Delete a specific book. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 403,  
        "message": "Not enough rights"  
    }  
}
```

Status code

Code	Meaning
204 NO CONTENT	Books successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Books not found
500 Internal Server Error	Unexpected server error

Carts table

1) POST cart

Operation Information	Operation number	1	Operation Name	carts
	Operation Type	POST		
	Operation Description	Create a cart. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
book_id	integer	1	2	Unique id of the cart
quantity	integer	1	10	Quantity of items to add to the cart

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Items successfully added to the cart”	Request message
payload.cart_id	integer	1	1	Unique id of the cart

3. Request Message Example

```
{
    "book_id": 2,
    "quantity": 10,
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Items successfully added to the cart",  
    "payload": {  
        "cart_id": 1,  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 403,  
        "message": "Token has expired"  
    }  
}
```

Status code

Code	Meaning
201 CREATED	Cart successfully created
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	Cart already in the database
500 Internal Server Error	Unexpected server error

2) PUT cart

Operation Information	Operation number	2	Operation Name	carts
	Operation Type	PUT		
	Operation Description	Modify items of a cart. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
book_id	integer	1	3	Unique id of the cart
quantity	integer	1	4	Quantity of items to add to the cart

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Cart successfully modified”	Request message
payload.cart_id	integer	1	1	Unique id of the cart

3. Request Message Example

```
{
  "book_id": 3,
  "quantity": 4,
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Cart successfully modified",  
    "payload": {  
        "cart_id": 1,  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 400,  
        "message": "Invalid input data"  
    }  
}
```

Status code

Code	Meaning
200 OK	Cart successfully modified
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Cart not found
500 Internal Server Error	Unexpected server error

3) GET cart

Operation Information	Operation number	3	Operation Name	carts
	Operation Type	GET		
	Operation Description	Retrieve items in a cart. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Items of the cart successfully retrieved.”	Request message
payload.cart_id	integer	1	1	Unique id of the cart
payload.book_id	integer	1	2	Unique id of the book
payload.quantity	integer	1	4	Quantity of a book in the cart

3. Request Message Example

4. Response Message Example

```
{
  "is_success": true,
  "message": "Items of the cart has been successfully retrieved."
  "payload": [
    {
      "cart_id": 1,
      "book_id": 2,
      "quantity": 4
    }
  ]
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 404,
    "message": "Items not found"
  }
}
```

Status code

Code	Meaning
200 OK	Items successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Items not found
500 Internal Server Error	Unexpected server error

4) DELETE cart

Operation Information	Operation number	4	Operation Name	carts
	Operation Type	DELETE		
	Operation Description	Delete a specific item in a cart. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
  "is_success": false,  
  "error": {  
    "code": 404,  
    "message": "Item not found"  
  }  
}
```

Status code

Code	Meaning
204 NO CONTENT	Item successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Item not found
500 Internal Server Error	Unexpected server error

Orders table

1) POST order

Operation Information	Operation number	1	Operation Name	orders
	Operation Type	POST		
	Operation Description	Create a new order. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
items	array	1	[{ "book_id": 2, "quantity": 1 }]	List of items
book_id	integer	1	2	Unique id of the book
quantity	integer	1	1	Quantity of a book

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Order successfully created.”	Request message
payload.order_id	integer	1	5	Unique id of the order
payload.created_at	timestamp	1	“2025-09-15T22:01:15.1610229”	Date of order

3. Request Message Example

```
{
  "items": [
    { "book_id": 2, "quantity": 1 }
  ]
}
```

4. Response Message Example

```
{
  "is_success": true,
  "message": "Order successfully created.",
  "payload": {
    "order_id": 5,
    "created_at": "2025-09-15T22:01:15.1610229"
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 403,
    "message": "Token has expired"
  }
}
```

Status code

Code	Meaning
201 CREATED	Order successfully created
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	Order already in the database
500 Internal Server Error	Unexpected server error

2) GET order

Operation Information	Operation number	2	Operation Name	orders
	Operation Type	GET		
	Operation Description	Retrieve an order. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Items successfully retrieved.”	Request message
payload.order_items_id	integer	1	1	Unique id of the item
payload.book_id	integer	1	1	Unique id of the book
payload.order_id	integer	1	1	Unique id of the order
payload.quantity	integer	1	1	Quantity of items
payload.amount	decimal	1	12.5	Amount of the items
payload.status	enum	1	“DELIVERED”	status of the order

3. Request Message Example

```
{  
    "order_id": 1,  
    "bookId": 1,  
    "quantity": 1  
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Items successfully retrieved."  
    "payload": [  
        {  
            "order_item_id": 1,  
            "bookId": 1,  
            "order_id": 1,  
            "quantity": 1,  
            "amount": 12.5,  
            "status": "DELIVERED"  
        }  
    ]  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 404,  
        "message": "Items not found"  
    }  
}
```

Status code

Code	Meaning
200 OK	Items successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Items not found
500 Internal Server Error	Unexpected server error

3) PATCH order

Operation Information	Operation number	3	Operation Name	orders
	Operation Type	PATCH		
	Operation Description	Modify an order. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Items successfully retrieved.”	Request message
payload.updated_at	timestamp	1	“2025-10-30T22:01:15.1610229”	Date of update
payload.order_id	integer	1	1	Unique id of the order
payload.status	enum	1	“SHIPPED”	status of the order

3. Request Message Example

4. Response Message Example

```
{
  "is_success": true,
  "message": "Order successfully modified."
  "payload": {
    "order_id": 1,
    "status": "SHIPPED",
    "updated_at": "2025-10-30T22:01:15.1610229"
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 400,
    "message": "Invalid input data"
  }
}
```

Status code

Code	Meaning
200 OK	Order successfully modified
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Order not found
500 Internal Server Error	Unexpected server error

4) DELETE order

Operation Information	Operation number	4	Operation Name	orders
	Operation Type	DELETE		
	Operation Description	Delete a specific order. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 403,  
        "message": "Not enough rights"  
    }  
}
```

Status code

Code	Meaning
204 NO CONTENT	Order successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Order not found
500 Internal Server Error	Unexpected server error

Reviews table

1) POST review

Operation Information	Operation number	1	Operation Name	reviews
	Operation Type	POST		
	Operation Description	Create a review to a specific book. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
rating	enum	1	5	Rate of the book between 1 and 5
comment	string	0	"I really recommend this book!"	Comment of the review

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	"Review successfully created."	Request message
payload.review_id	integer	1	1	Unique review id
payload.created_at	timestamp	1	"2025-10-30T22:01:15.1610229"	Date of creation

3. Request Message Example

```
{
  "rating":5,
  "comment": "I really recommend this book !"
}
```

4. Response Message Example

```
{
    "is_success": true,
    "message": "Review successfully created. ",
    "payload": {
        "review_id": 1,
        "created_at": "2025-10-30T22:01:15.1610229"
    }
}
```

5. Error Response Message Example

```
{
    "is_success": false,
    "error": {
        "code": 401,
        "message": "Invalid token"
    }
}
```

Status code

Code	Meaning
201 CREATED	Review successfully created
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	Review already in the database
500 Internal Server Error	Unexpected server error

2) GET review

Operation Information	Operation number	2	Operation Name	reviews
	Operation Type	GET		
	Operation Description	Retrieve reviews from the current user.		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Reviews successfully retrieved.”	Request message
payload.user_id	integer	1	1	Unique id of the user
payload.review_count	integer	1	1	Number of reviews written by the user
payload.reviews.review_id	integer	1	1	Id of the review written by the user
payload.reviews.book_id	integer	1	2	Id of the book associated to the review
payload.reviews.rating	integer	1	4	Rating associated to the review
payload.reviews.comment	string	0	“It was fun.”	Comment associated to the review
payload.reviews.created_at	timestamp	1	2025-09-15T22:08:47.620373	Date of creation of the review

3. Request Message Example

```
{  
    "user_id": 1,  
    "book_id": 2,  
    "rating": 4,  
    "comment": "It was fun.",  
    "created_at": "2025-09-15T22:08:47.620373"  
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Reviews successfully retrieved.",  
    "payload": {  
        "user_id": 1,  
        "review_count": 1,  
        "reviews": [  
            {  
                "review_id": 1,  
                "book_id": 2,  
                "rating": 4,  
                "comment": "It was fun.",  
                "created_at": "2025-09-15T22:08:47.620373"  
            }  
        ]  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 404,  
        "message": "Reviews not found"  
    }  
}
```

Status code

Code	Meaning
200 OK	Reviews successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Reviews not found
500 Internal Server Error	Unexpected server error

3) GET review

Operation Information	Operation number	3	Operation Name	reviews
	Operation Type	GET		
	Operation Description	Retrieve a specific review		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Review successfully retrieved.”	Request message
payload.user_id	integer	1	3	Unique id of the user
payload.book_id	integer	1	2	Unique id of the book associated to the review
payload.comment	string	0	“It's boring.”	Comment of the review
payload.rating	integer	1	1	Rating of the review
payload.created_at	timestamp	1	2025-09-15T22:08:47.620373	Date of creation of the review

3. Request Message Example

4. Response Message Example

```
{
  "is_success": true,
  "message": "Review correctly retrieved.",
  "payload": {
    "user_id": 3,
    "book_id": 2,
    "comment": "It's boring.",
    "rating": 1,
    "created_at": "2025-09-15T22:08:47.620373"
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 404,
    "message": "Review not found"
  }
}
```

Status code

Code	Meaning
200 OK	Review successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Review not found
500 Internal Server Error	Unexpected server error

4) PUT review

Operation Information	Operation number	4	Operation Name	reviews
	Operation Type	PUT		
	Operation Description	Modify a review. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
rating	integer	1	1	Rating of the review
comment	string	0	“Very bad book !”	Comment of the review

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Review successfully modified.”	Request message
payload.review_id	integer	1	1	Unique id of the review
payload.updated_at	timestamp	1	2025-09-15T22:01:15.1610229	Date of update

3. Request Message Example

```
{
  "rating":1,
  "comment": "Very bad book !"
}
```

4. Response Message Example

```
{
  "is_success": true,
  "message": "Review successfully modified.",
  "payload": {
    "review_id": 1,
    "created_at": "2025-09-15T22:01:15.1610229"
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 400,
    "message": "Invalid input data"
  }
}
```

Status code

Code	Meaning
200 OK	Review successfully modified
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Review not found
500 Internal Server Error	Unexpected server error

5) DELETE review

Operation Information	Operation number	5	Operation Name	reviews
	Operation Type	DELETE		
	Operation Description	Delete a review. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
  "is_success": false,  
  "error": {  
    "code": 403,  
    "message": "Not allowed"  
  }  
}
```

Status code

Code	Meaning
200 OK	Review successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Review not found
500 Internal Server Error	Unexpected server error

Favorites table

1) POST favorite

Operation Information	Operation number	1	Operation Name	favorites
	Operation Type	POST		
	Operation Description	Add a book to favorites. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
book_id	1	integer	2	Unique id of the book to add in the favorites list

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Book successfully added to favorites.”	Request message
payload.favorite_id	integer	1	1	Unique id of favorite

3. Request Message Example

```
{
    "book_id": 2
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Book successfully added to favorites."  
    "payload": {  
        "favorite_id": 1  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 409,  
        "message": "already in your favorites"  
    }  
}
```

Status code

Code	Meaning
201 CREATED	Book successfully added to favorites
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	Book already in your favorites
500 Internal Server Error	Unexpected server error

2) GET favorites

Operation Information	Operation number	2	Operation Name	favorites
	Operation Type	GET		
	Operation Description	Retrieve all favorites. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Favorites successfully retrieved.”	Request message
payload.favorite_id	integer	1	1	Unique id of the favorite
payload.user_id	integer	1	3	Unique id of the user
payload.book_id	integer	1	2	Unique id of the book

3. Request Message Example

4. Response Message Example

```
{
  "is_success": true,
  "message": "Favorites successfully retrieved.",
  "payload": [
    {
      "favorite_id": 1,
      "user_id": 3,
      "book_id": 2
    }
  ]
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 403,
    "message": "Token has expired"
  }
}
```

Status code

Code	Meaning
200 OK	Favorites successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Favorites not found
500 Internal Server Error	Unexpected server error

3) DELETE favorite

Operation Information	Operation number	3	Operation Name	favorites
	Operation Type	DELETE		
	Operation Description	Delete a favorite. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
  "is_success": false,  
  "error": {  
    "code": 500,  
    "message": "Unexpected server error"  
  }  
}
```

Status code

Code	Meaning
204 NO CONTENT	Favorites successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Favorites not found
500 Internal Server Error	Unexpected server error

Comments table

1) POST comment

Operation Information	Operation number	1	Operation Name	comments
	Operation Type	POST		
	Operation Description	Add a comment to a review. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

6. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
comment	1	string	"I totally agree with you !"	Comment added to a review

7. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	"Comment successfully added to the review."	Request message
payload.comment_id	integer	1	1	Unique id of the comment

8. Request Message Example

```
{
    "comment": "I totally agree with you !",
}
```

9. Response Message Example

```
{  
    "is_success": true,  
    "message": "Comment successfully added to the review."  
    "payload": {  
        "comment_id": 1  
    }  
}
```

10. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 409,  
        "message": "Comment already added to the review"  
    }  
}
```

Status code

Code	Meaning
201 CREATED	Comment successfully added to the review
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	Comment already added to the review
500 Internal Server Error	Unexpected server error

2) GET comment

Operation Information	Operation number	2	Operation Name	comments
	Operation Type	GET		
	Operation Description	Retrieve a specific comment. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Comment successfully retrieved.”	Request message
payload.comment_id	integer	1	1	Unique id of the comment
payload.user_id	integer	1	3	Unique id of the user
payload.book_id	integer	1	2	Unique id of the book
payload.comment	string	1	“I totally agree with you !”	Content of the comment

3. Request Message Example

4. Response Message Example

```
{
  "is_success": true,
  "message": "Comment successfully retrieved.",
  "payload":
  {
    "comment_id": 1,
    "user_id": 3,
    "book_id": 2,
    "book_id": "I totally agree with you !"
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 404,
    "message": "Comment not found"
  }
}
```

Status code

Code	Meaning
200 OK	Comment successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Comment not found
500 Internal Server Error	Unexpected server error

3) DELETE comment

Operation Information	Operation number	3	Operation Name	comments
	Operation Type	DELETE		
	Operation Description	Delete a comment. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
  "is_success": false,  
  "error": {  
    "code": 500,  
    "message": "Unexpected server error"  
  }  
}
```

Status code

Code	Meaning
204 NO CONTENT	Comment successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Comment not found
500 Internal Server Error	Unexpected server error

4) GET comments

Operation Information	Operation number	4	Operation Name	comments
	Operation Type	GET		
	Operation Description	Retrieve a paginated list of comments.		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Comments successfully retrieved.”	Request message
payload.comments.comment_id	integer	1	1	Unique id of the comment
payload.comments.comment	string	1	”I totally agree with you ! ”	Content of the comment
payload.page	integer	1	1	Current page number
payload.size	integer	1	1	Number of items per page
payload.total_pages	Integer	1	5	Total number of pages
payload.total_items	Integer	1	45	Total number of comments available

3. Request Message Example

```
{  
    "comment": "I totally agree with you ! "  
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Comments successfully retrieved.",  
    "payload": {  
        "comments": [  
            {  
                "comment_id": 1,  
                "comment": "I totally agree with you ! "  
            },  
            ...  
        ],  
        "page": 1,  
        "size": 1,  
        "total_pages": 5,  
        "total_items": 45  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 500,  
        "message": "Unexpected server error"  
    }  
}
```

Status code

Code	Meaning
200 OK	Comments successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Comments not found
500 Internal Server Error	Unexpected server error

Library table

1) POST book to library

Operation Information	Operation number	1	Operation Name	library
	Operation Type	POST		
	Operation Description	Add a book purchased to a library. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
order_item_id	1	integer	1	Unique id of an item in the order

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Book added to the library.”	Request message
payload.library_id	integer	1	1	Unique id of the library

3. Request Message Example

```
{
  "order_item_id": 1,
}
```

4. Response Message Example

```
{
  "is_success": true,
  "message": "Book successfully added to the library."
  "payload": {
    "library_id": 1
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 409,
    "message": "Book already added to the library"
  }
}
```

Status code

Code	Meaning
201 CREATED	Book successfully added to the library
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
409 Conflict	Book already added to the library
500 Internal Server Error	Unexpected server error

2) GET library

Operation Information	Operation number	2	Operation Name	library
	Operation Type	GET		
	Operation Description	Retrieve a specific library. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Library successfully retrieved.”	Request message
payload.library_id	integer	1	1	Unique id of the library
payload.user_id	integer	1	3	Unique id of the user
payload.book_id	integer	1	2	Unique id of the book

3. Request Message Example

4. Response Message Example

```
{
  "is_success": true,
  "message": "Library successfully retrieved.",
  "payload": {
    "library_id": 1,
    "user_id": 3,
    "book_id": 2
  }
}
```

5. Error Response Message Example

```
{
  "is_success": false,
  "error": {
    "code": 404,
    "message": "Library not found"
  }
}
```

Status code

Code	Meaning
200 OK	Library successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Library not found
500 Internal Server Error	Unexpected server error

3) DELETE library

Operation Information	Operation number	3	Operation Name	library
	Operation Type	DELETE		
	Operation Description	Delete a comment. This endpoint requires JWT authentication. Include a valid access token in the Authorization header as Bearer <access_token>		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
/	/	/	/	/

3. Request Message Example

4. Response Message Example

5. Error Response Message Example

```
{  
  "is_success": false,  
  "error": {  
    "code": 500,  
    "message": "Unexpected server error"  
  }  
}
```

Status code

Code	Meaning
204 NO CONTENT	Library successfully deleted
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Library not found
500 Internal Server Error	Unexpected server error

4) GET libraries

Operation Information	Operation number	4	Operation Name	library
	Operation Type	GET		
	Operation Description	Retrieve a paginated list of libraries.		

1. Request Message Specification

Item Name	Item Type	Item classification	Sample Data	Item Description
/	/	/	/	/

2. Response Message Specification

Item Name	Item Type	Item size	Sample Data	Item Description
is_success	boolean	1	true	Status of request
message	string	1	“Libraries successfully retrieved.”	Request message
payload.library.library_id	integer	1	1	Unique id of the library
payload.library.book_id	integer	1	2	Unique id of the book
payload.page	integer	1	1	Current page number
payload.size	integer	1	1	Number of items per page
payload.total_pages	Integer	1	5	Total number of pages
payload.total_items	Integer	1	45	Total number of comments available

3. Request Message Example

```
{  
    "library_id": 1,  
    "book_id": 2  
}
```

4. Response Message Example

```
{  
    "is_success": true,  
    "message": "Libraries successfully retrieved.",  
    "payload": {  
        "library": [  
            {  
                "library_id": 1,  
                "book_id": 2  
            },  
            {  
                "page": 1,  
                "size": 1,  
                "total_pages": 5,  
                "total_items": 45  
            }  
        ]  
    }  
}
```

5. Error Response Message Example

```
{  
    "is_success": false,  
    "error": {  
        "code": 500,  
        "message": "Unexpected server error"  
    }  
}
```

Status code

Code	Meaning
200 OK	Libraries successfully retrieved
400 Bad Request	Invalid input data
401 Unauthorized	Missing or invalid token
403 Forbidden	Access denied (token expired or insufficient rights)
404 Not Found	Libraries not found
500 Internal Server Error	Unexpected server error