

An Academic Reference Manager

By:

- Daniel Ekaphan Valberg (danielv16@ru.is)
- Grétar Örn Hjartarson (gretarh17@ru.is)
- Jól Snær Garcia (joelg18@ru.is)

How to Install and Run

Installation

Make sure you have [NodeJS](#) installed. This was written with version 12.9.0 but newer versions and older (tested on 10.15.3) works as well. Installing NodeJS includes [npm](#), so you do not have to worry about that.

When NodeJS is installed, simply type in terminal/command line in root of the project to install all dependencies: '\$' *indicates being run in terminal/cmd*

```
$ npm install
```

Next, if you would like to run tests, you must also install [Jest](#) into global dependency in npm. You can do that by simply entering

```
$ npm install -g jest
```

Note: There are no setup required for Database, see design documentation for more information

Running

after installing packets you have the following choices to run: '\$' *indicates being run in terminal/cmd*

- `$ npm test` to run all tests, to run a specific file simply enter file name after e.g. `$ npm test src/db/statics/UserStatics.test.js`, tests are run on test database collection
- `$ npm run test:coverage` to run all tests and get coverage information, results are outputted into console but a more detailed version is outputted to `/coverage`, to see on browser open `/coverage/lcov-report/index.html/`, tests are run on test database collection
- `$ npm start` to start in development environment, it is connected to a development database collection
- `$ npm run production` to start in production environment, it is connected to a production database collection
- `$ npm run initDevData` to initialize data into development database collection
- `$ npm run initProductionData` to initialize data into production database collection

This will run the server on and listen on port `5000`.

To run HTTP methods either run in the browser for GET methods or use either [Postman](#) to execute the requests or [cURL](#).

The routes are accessible at `localhost:5000` followed by any following routes.

Routes

Where '*publication_id*' and '*user_id*' appears, replace to desired ID!

To enter authentication, you will have to enter the desired user type into the header in the "Authorization" field, user types are: "auth" and "auth", emit this for "anonymous" user type

Admin users has access to all the following routes

URI	HTTP Method	Permitted User Types	Service	Description
/publications	GET	All	Publications	Get information about all publications
/publications	POST	Admin	Publications	Add a publication
/publications/{publication_id}	GET	All	Publications	Get information about a specific publication (including borrowing history)
/publications/{publication_id}	DELETE	Admin	Publications	Delete a publication
/publications/{publication_id}	PUT	Admin	Publications	Update a publication
/users	GET	Admin	Users	Get information about all users
/users	POST	Admin	Users	Add a user
/users/{user_id}	GET	Admin	Users	Get information about a given user (e.g. borrowing history)
/users/{user_id}	DELETE	Admin	Users	Remove a user
/users/{user_id}	PUT	Admin	Users	Update a user
/users/{user_id}/publications	GET	Authenticated, Admin	Publications	Get information about the Publications a given user has on loan
/users/{user_id}/publications/{publication_id}	POST	Authenticated, Admin	Publications	Register a publication on loan

URI	HTTP Method	Permitted User Types	Service	Description
/users/{user_id}/publications/{publication_id}	DELETE	Authenticated, Admin	AutehPublications	Return a publication
/users/{user_id}/publications/{publication_id}	PUT	Admin	Publications	Update borrowing information
/users/{user_id}/reviews	GET	Authenticated, Admin	Reviews	Get reviews by a given user
/users/{user_id}/reviews/{publication_id}	GET	Authenticated, Admin	Reviews	Get user reviews for a given publication
/users/{user_id}/reviews/{publication_id}	POST	Authenticated, Admin	Reviews	Add a user review for a publication
/users/{user_id}/reviews/{publication_id}	DELETE	Authenticated, Admin	Reviews	Remove review
/users/{user_id}/reviews/{publication_id}	PUT	Authenticated, Admin	Reviews	Update publication review
/users/{user_id}/recommendation	GET	Authenticated, Admin	Recommendation	Get a recommendation for a given user
/publications/reviews	GET	All	Reviews	Get reviews for all Publications
/publications/{publication_id}/reviews	GET	All	Reviews	Get all reviews for a given publication
/publications/{publication_id}/reviews/{user_id}	GET	All	Reviews	Get a user's review for a publication
/publications/{publication_id}/reviews/{user_id}	PUT	Admin	Reviews	Update a user's review
/publications/{publication_id}/reviews/{user_id}	DELETE	Admin	Reviews	Remove a user's review

Queries

Queries can be done on the **/users** and **/publications**, the queries are **LoanDate=YYYY-MM-DD** and **LoanDuration=N**, where **YYYY-MM-DD** is Year, Month and Date respectively and **N** is a number.

They work as following:

Route + Query	HTTP Method	Permitted User Types	Result contains
<i>/users?LoanDate=YYYY-MM-DD</i>	GET	Admin	Users information + list of publicaitons on loan
<i>/users?LoanDuration=N</i>	GET	Admin	Users information + list of publications on loan
<i>/users?LoanDate=YYYY-MM-DD&LoanDuration=N</i>	GET	Admin	Users information + list of publicaitons on loan
<i>/publications?LoanDate=YYYY-MM-DD</i>	GET	Authenticated + Admin	Authenticated users get only publications list, Admins get publications + users who loan them
<i>/publications?LoanDuration=N</i>	GET	Admin	Publications list + users who loaned them
<i>/publications?LoanDate=YYYY-MM-DD</i>	GET	Admin	Publications list + users who loaned them

Hasing used:

hasing is saved into shasum.txt in the root folder.

```
find . -iname "*.js" | shasum -a 256 > shasum.txt
find . -iname "*.json" | shasum -a 256 >> shasum.txt
```