

In order to get a better understanding of your level as a programmer, we ask you to complete a small task that resembles some of tasks you could potentially encounter while working at Conrad Connect.

The main goal is a small HTTP API that is being used by a React frontend.

Please deliver the result either as an archive (zip or tar) or in a publicly accessible Github repository.

Backend

The backend will expose an HTTP API to search for Github repositories. This can be done with the Github API which is described here: <https://developer.github.com/v3/>

Please write the API with Node.js and express.js.

There should be

1. one endpoint that takes a search term and returns a list of repositories. Hint: Don't implement pagination for this challenge.
2. one endpoint that allows bookmarking a repository by its id. Hint: Bookmarks don't need to be persisted in a database for this challenge.
3. one endpoint to get all bookmarked repositories

NOTE: Bookmarks are “application wide” - you don't need a concept of different users. Each user of the API will add to / be shown the same list of bookmarked repositories.

While writing please be mindful of the following:

- While there will probably not be a lot of code please structure it in a way that you would use in a larger project. Meaning: There should definitely be more than one file.
- Think about parts of the application that could be externally configurable and prepare your code for this. There doesn't need to be a configuration system.
- Use git for version control
- Include a small README that explains how to start your service

Some “bonus” features if you have enough time:

- a) Add documentation for *your* API in a format of your choice
- b) Add tests. Which layers of the application can you test? Can you write tests that don't

rely on the Github API being available? c) Add basic authentication to your API d) Add an endpoint to remove a bookmark

Frontend

If you are not applying to Conrad Connect as a React developer you don't need to do this part.

Using React.js and Redux, write a frontend for the API that you developed that allows a user to search for repositories. The repositories will be presented in a list format and each found repository can be bookmarked. Another page/section of the frontend lists the currently bookmarked repositories.

NOTE: You don't need to overdo the representational part. You can represent a repository with its name and owner name, maybe the number of stars and forks to the user. However, this is only a suggestion -- have fun with it!

While writing please be mindful of the following:

- While there will probably not be a lot of code please structure it in a way that you would use in a large project. Meaning: There should definitely be more than one file.
- Use git for version control (can be the same repository as the backend).
- Include a small README on how to start and access the frontend.

Some "bonus" features if you have enough time:

- a) Add tests for your frontend
- b) Don't use Bootstrap, hint: use Flexbox or CSS Grid
- c) Use the "remove bookmark" endpoint if you programmed it to allow the user to remove a bookmark