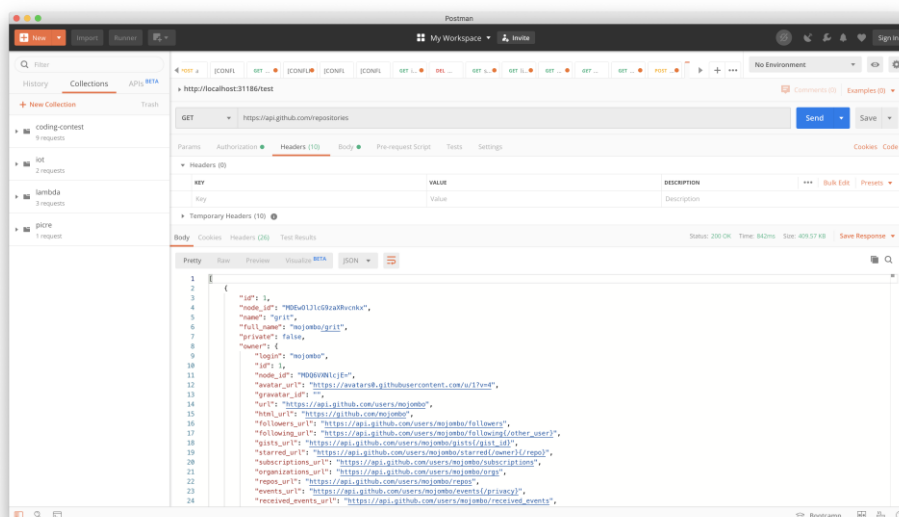
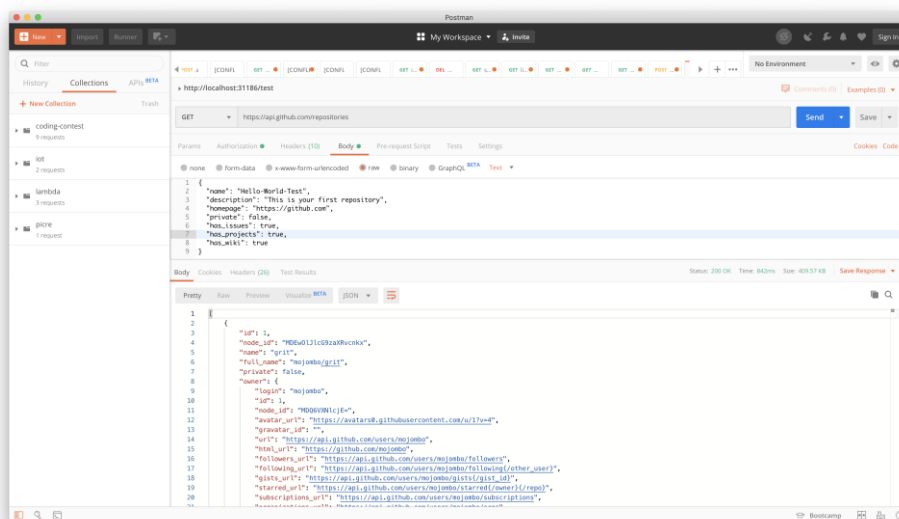


## Exercise REST/SOAP

In this exercise we are going to use a REST based API from github. Use your github account from the previous exercises. The target is to give you some basic understanding of what an API is and what you can do with APIs.

After each major step (1, 2, 3, etc. Provide a screenshot as described in the general exercise guidelines). In general, the screenshot should show the output of your last command e.g. if there are steps from 1.a to 1.c the screen after 1.c. If additional screenshots e.g. from step 1.a and 1.b are needed its explicitly mentioned. Please be sure that you have screenshots of the request and the response included. Please be sure to show the header information, your body as well and blur your authentication token. You may need two screenshots.

## Example



## Exercise

1. Watch these Videos if you do not what an API or REST is:

- a. <https://www.youtube.com/watch?v=Q-BpgyOT3a8>
  - b. <https://www.youtube.com/watch?v=jCadnIO9xSQ>
  - c. [https://www.youtube.com/watch?v=FAnuh0\\_BU4c](https://www.youtube.com/watch?v=FAnuh0_BU4c)
2. Install Postman. Postman is a tool to make API Calls without having to write code
  - a. <https://www.getpostman.com/>
  - b. Open the App
3. Go to <https://docs.github.com/en/rest/overview/other-authentication-methods> to see how to authenticate to the API
  - a. See <https://help.github.com/en/github/authenticating-to-github/creating-a-personal-access-token-for-the-command-line#creating-a-token> how to create a token for authentication.
4. List your github repositories. If you have none create one before.
  - a. See <https://developer.github.com/v3/repos/> to find the API
5. List all public repositories
  - a. See <https://developer.github.com/v3/repos/> to find the API
6. Currently you are only listing a part of all available repositories as returning all of them would be too much. This is called pagination. List the next page. See the “note” from <https://developer.github.com/v3/repos/#list-all-public-repositories>.
7. Create a repository via the API.
  - a. Name: my-first-api-repo, Private: false
  - b. See <https://developer.github.com/v3/repos/> to find the API
8. List your repositories.
9. Now change the description of your newly created repository to “My new description”
10. Request your User information
  - a. See <https://docs.github.com/en/rest/reference/users#get-a-user> to find the API. If security related information is included, please blur it.
11. List your current invitations:
  - a. <https://docs.github.com/en/rest/reference/collaborators>
12. Invite someone of your group to your repository using the API
13. List your current invitations:
  - a. <https://docs.github.com/en/rest/reference/collaborators>