Package ‘rjsonapi’

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Title Consumer for APIs that Follow the JSON API Specification

Description Consumer for APIs that Follow the JSON API Specification
(<http://jsonapi.org/>). Package mostly consumes data - with experimental
support for serving JSON API data.

Version 0.1.0

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BugReports https://github.com/ropensci/rjsonapi/issues

Imports crul (>= 0.2.0), R6 (>= 2.2.0), jsonlite (>= 1.2), plumber (>=
0.3.1)

Suggests testthat, covr

RoxygenNote 5.0.1

NeedsCompilation no

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Description

rjsonapi client

JSON API

JSON API is a specification for building APIs (Application Programming Interfaces) in JSON (Javascript Object Notation).


Examples

There are very few examples to see in the real world. One example comes from CodeClimate. Their API docs are at https://docs.codeclimate.com/docs/api

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jsonapi_connect  Connection

Description

Connection

Arguments

url  (character) Base url, without the version information, e.g., http://localhost:8088
version  (character) API version. Default: v1
content_type  (character) the content type to set in all request headers. Default: application/vnd.api+json
headers  (list) A list of headers to be applied to each request.
...  Curl options passed on to HttpClient. You can set these for all requests, or on each request - see examples.
Details

Methods

status(...) Check server status with a HEAD request
  • ... - curl options

routes(...) Get routes the server supports
  • ... - curl options

route(endpt, query, include, error_handler, ...) Fetch a route, optional query parameters
  • endpt - The endpoint to request data from. required.
  • query - a set of query parameters. combined with include parameter
  • include - A comma-separated list of relationship paths. combined with query parameter
  • error_handler - A function for error handling
  • ... - curl options

Examples

## Not run:
library("crul")
(conn <- jsonapi_connect("http://localhost:8088"))
conn$url
conn$version
conn$content_type
conn$status()
conn$routes()
conn$routes(verbose = TRUE)

# get data from specific routes
conn$route("authors")
conn$route("chapters")
conn$route("authors/1")
conn$route("authors/1/books")
conn$route("chapters/5")
conn$route("chapters/5/book")
conn$route("chapters/5/relationships/book")

## include
conn$route("authors/1", include = "books")
conn$route("authors/1", include = "photos")
conn$route("authors/1", include = "photos.title")

## set curl options on jsonapi_connect() call
xx <- jsonapi_connect("http://localhost:8088", verbose = TRUE)
xx$opts
xx$status()

## set headers on initializing the client
(conn <- jsonapi_connect("http://localhost:8088", headers = list(foo = "bar")))
Start a JSONAPI server

Usage

```
jsonapi_server(port = 8000)
```

Arguments

- `port` (integer) the port to run the server on. default: 8000

Details

Right now, this function doesn’t take arbitrary input, but instead serves the same content as this JSON API example [https://github.com/endpoints/endpoints-example](https://github.com/endpoints/endpoints-example). Note that not all features are the same as the full endpoints-example, but most should work.

Right now, this function serves data from static, minified JSON files, so there’s no dynamic database underneath.

Kill the server by CTRL+C, ESC or similar.

Examples

```
## Not run:
# start server in another R session
if (interactive()) {
  jsonapi_server()

  # Back in this session ...
  # Connect
  (conn <- jsonapi_connect("http://localhost:8000"))

  # Get data
  conn$url
  conn$version
  conn$content_type
  conn$routes()
```
conn$route("authors")
conn$route("chapters")
conn$route("authors/1")
conn$route("authors/1/books")
conn$route("chapters/5")
}

## End(Not run)
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