Documentation

The documentation is quite exhaustive in regard to the Code Snippet Library API meant for operations and sharing of snippets of code. It defines specific end-points for registering a user, logging in, and managing the snippets; creating, updating, retrieving snippets. Some of them are to control the visibility of snippets, processing language data, or authentication by using JWT. The goals are defined with the detail on the parameters any endpoint is likely to require, and the responses that each of them is expected to deliver. Furthermore, it extends example requests and responses to illustrate the correct usage of the integration.

POST   Sign up user

http://localhost:3000/users/signup

This endpoint is utilized for registration of new users in the system. The users are required to enter their firstname, lastname, email, and password to create a new user account. The password is hashed and salted for security purposes. An appropriate message is displayed in case email already exists.

HEADERS

Content-Type   application/json

Body raw (json)

```json
{
  "firstname": "Mike",
  "lastname": "James",
  "email": "alice.johnson@example.com",
  "password": "securepassword"
}
```

POST   Login

http://localhost:3000/users/login

StartFragmentThis endpoint is used to log in a current user and to generate a JWT token for him. It needs the user's e-mail and password that will authenticate the particular user. Once the user is authenticated, he will be issued with token plus the role details which should be added in a request that needs to have the access.

HEADERS

Content-Type	application/json

Body raw (json)

```json
{
  "email": "alice.johnson@example.com",
  "password": "securepassword"
}
```

POST Find snippet

http://localhost:3000/snippets/find

StartFragmentLooks for code snippets according to a name, visibility and/or language and returns the result matching the logged-in user.EndFragment

HEADERS

Content-Type	application/json
Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIjoyLCJpYXQiOjE3MjA3NDY0ODQsImV4cCI6MTcyMDc1MDA4NH0.WiRrfIDQznjYiwokPJQWdzAKqzqgqSbr6XZ1hyYNrkI

Body raw (json)

```json
{
```

```
    "name": "Testing snippet",
    "visibility": true,


    "languageId": 2
}
```

GET   Get snippet by ID

http://localhost:3000/snippets/2

This endpoint will provide the particular code snippet being searched through its ID. It allows access only after providing the credentials that give the privileges to access the snippets of the user logged in. If the snippet does not exist or if the snippet belongs to a different user an appropriate message will be displayed.

HEADERS

Content-Type	application/json
Authorization	Bearer eyJhbGciOiJIUzl1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIIjoyLCJpYXQiOjE3MjA3NDY0ODQsImV4cCI6MTcyMDc1MDA4NH0.WiRrfIDQznjYiwokPJQWdzAKqzqgqSbr6XZ1hyYNrkI

POST   post snippet

Sets up a new code snippet of the logged-in user and specifies the snippet's viewable name, language, and actual code.

HEADERS

Authorization	Bearer eyJhbGciOiJIUzl1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIIjoyLCJpYXQiOjE3MjA3NDY0ODQsImV4cCI6MTcyMDc1MDA4NH0.WiRrfIDQznjYiwokPJQWdzAKqzqgqSbr6XZ1hyYNrkI

Body raw (json)

```
json
 r
```

```
{
    "name": "Testing snippet",
    "visibility": true,

    "languageId": 2,
    "snippet": "function(test){ return a * b }"
}
```

DELETE   Delete snippet

http://localhost:3000/snippets/1

This endpoint is for the deletion of a particular code snippet by its ID or its reference number. It excludes the snippet from the list of similar snippets of the user. Can only be deleted by the owner of the snippet and an error will be returned if a different user tries to delete a snippet they did not create.

HEADERS

Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIkIjoyLCJpYXQiOjE3MjA3MjkzOTIs ImV4cCI6MTcyMDczMjk5Mn0.6Qvc0re16Jt-o4F59Pw8Gp6SmnMcexOKVfWiAF5b0Lk
Content-Type	application/json

GET   Put snippet

StartFragmentModifies an existing code snippet specified by ID, enabling the user that is currently logged in to make changes in only the name, the thread of which visibility it should be a part of, and the actual code that the snippet contains.EndFragment

---

GET   Get languages

http://localhost:3000/languages

This endpoint returns all the programming languages that have been defined within the system. It gives a list of options to choose, for example, the language of a snippet that a user wants to create or search for. This endpoint is public, meaning that every user, including guest, can use it.

HEADERS

Authorization	Bearer
	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5
	qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIkIjoyLCJpYXQiOjE3MjA3MjkzOTTIs
	ImV4cCI6MTcyMDczMjk5Mn0.6Qvc0re16Jt-
	o4F59Pw8Gp6SmnMcexOKVfWiAF5b0Lk
Content-Type	application/json

GET Get languages by id

http://localhost:3000/languages/3

HEADERS

Authorization	Bearer
	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5
	qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIkIjoyLCJpYXQiOjE3MjA3NDY0OD
	QsImV4cCI6MTcyMDc1MDA4NH0.WiRrfIDQznjYiwokPJQWdzAKqzqgqSbr6XZ1h
	yYNrkI
Content-Type	application/json

PUT Edit language

http://localhost:3000/languages/1

This endpoint changes the name of the language in question according to the language's ID. It expects the new name of the language to be provided in the request body. In case the new name is not unique an error message will be displayed indicating existence of the entered name.

HEADERS

Authorization	Bearer
	eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5
	qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIkIjoyLCJpYXQiOjE3MjA3NDY0OD
	QsImV4cCI6MTcyMDc1MDA4NH0.WiRrfIDQznjYiwokPJQWdzAKqzqgqSbr6XZ1h
	yYNrkI

Body raw (json)

```json
{
  "name": "C++"
}
```

POST Post language

http://localhost:3000/languages

This resource enables the administrator to create a new language record in the system. The new language must be included in the request body with its name. The name of a language cannot be the same for two different languages, if a duplicate name is given, the system will display an error message.

HEADERS

Authorization

Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZSI6IjoyLCJpYXQiOjE3MjA3NDY0ODQsImV4cCI6MTcyMDc1MDA4NH0.WiRrfIDQznjYiwokPJQWdzAKqzgqSbr6XZ1hyYNrkl

Body raw (json)

```json
{
    "name": "JavaScript"
}
```

POST Delete language

http://localhost:3000/languages/10

This endpoint is used to delete a given language from the system and its parameters only require an ID as a value. This one erases the specified language from the database. If the ID does not relate to any language, a not found error message will be delivered.

HEADERS

Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6MSwiZW1haWwiOiJhbGljZS5qb2huc29uQGV4YW1wbGUuY29tIiwicm9sZUIjoyLCJpYXQiOjE3MjA3NDY0OD QsImV4cCI6MTcyMDc1MDA4NH0.WiRrfIDQznjYiwokPJQWdzAKqzqgqSbr6XZ1h yYNrkI
Content-Type	application/json