

Code Snippet Recommender

PG1 - 2022

Group 15

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Mentor: Sai Anirudh Karre

Project Description

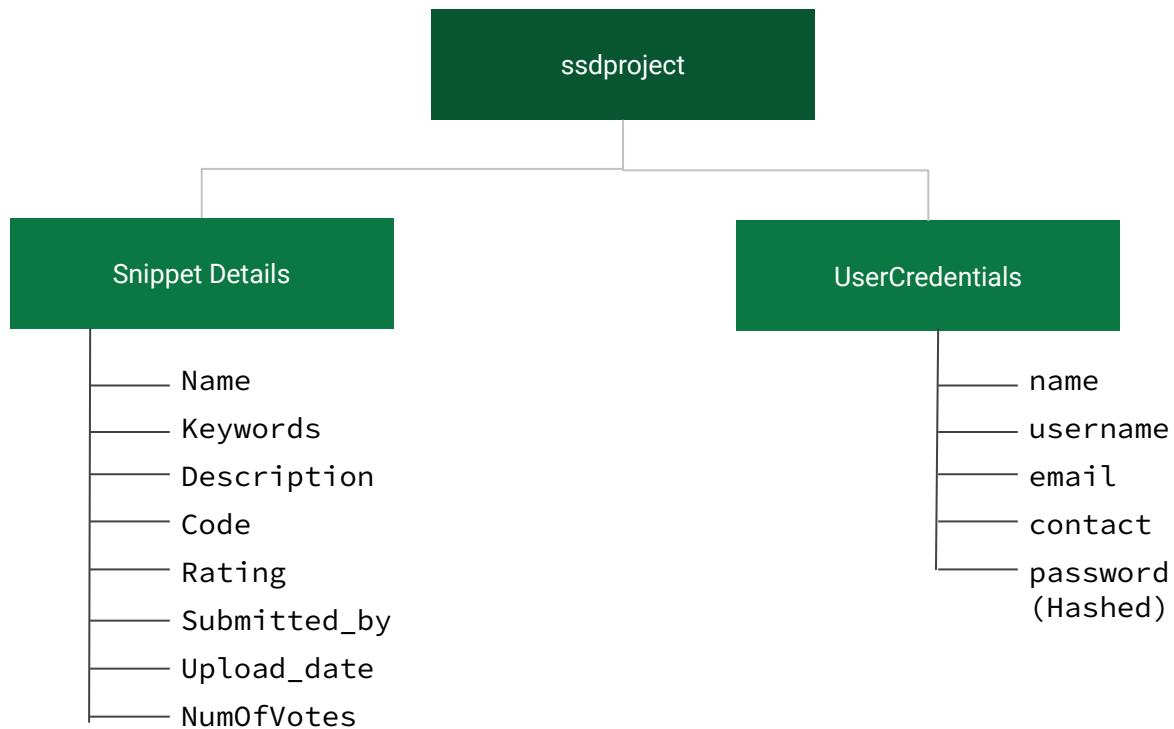
Code Snippet Recommender is a platform where developers can contribute code snippets written in JavaScript and users can search and retrieve the uploaded snippets and use them accordingly.

Technologies Used

— — —

- HTML
- CSS
- JavaScript
- MongoDB
- Python
- Flask
- VS Code

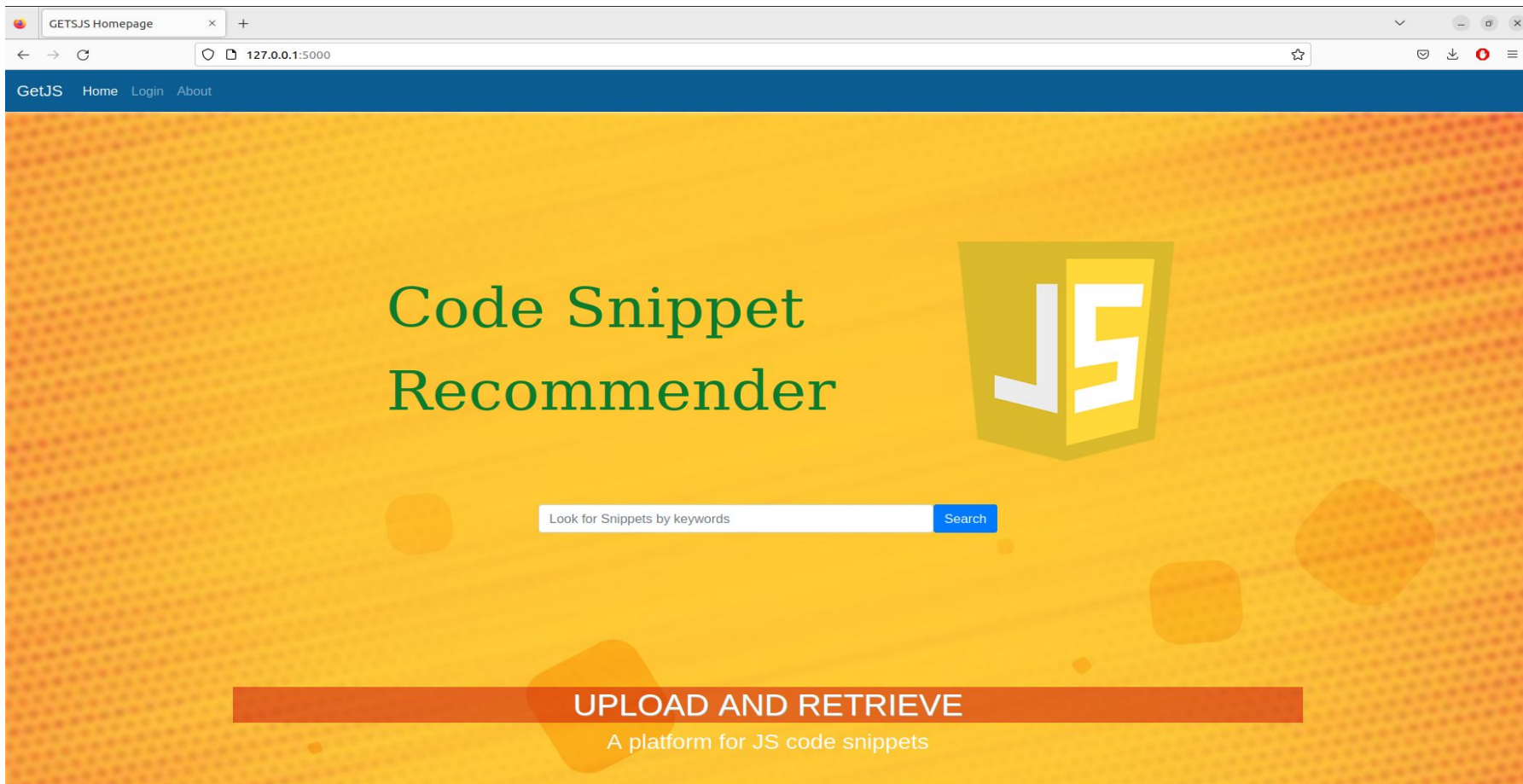
Mongo DB



Use Cases:

1. A developer new to JavaScript but proficient in any other programming language who may be able to derive the logic/algorithm to solve a problem but not code it in JavaScript may pick up small snippets of commonly used logics to help him solve the problem.
2. JavaScript development community can use the system as a large verified repository of JavaScript code snippets, both for helping out newcomers and automate trivial tasks of seasoned professionals.
3. Students can refer our system for learning JavaScript in beginner stage.
4. Developers can refer our system for recapitulating syntaxes that they may have forgot, or only remember part of. They may also use it for checking their code of incorrect syntaxes.
5. Publishers and Teachers can understand and use the most highly rated snippets of our system.
6. In programming a single task can usually be done in multiple ways, when multiple developers submit code for same task, all are saved to preserve uniqueness. Anyone who searches for such snippets will be shown all versions, so that they may learn multiple ways of doing the same tasks.
7. Our system's capabilities can also be very easily modified to create private snippet repositories for large enterprises (such as Google) for use within the company. This can be very helpful for new hires to make sense of very large codebases, as well as technologies which are internal to the company.

Landing Page



Signup Page

Registration Page

127.0.0.1:5000/register

SIGN UP

Register to Code Snippet Recommender

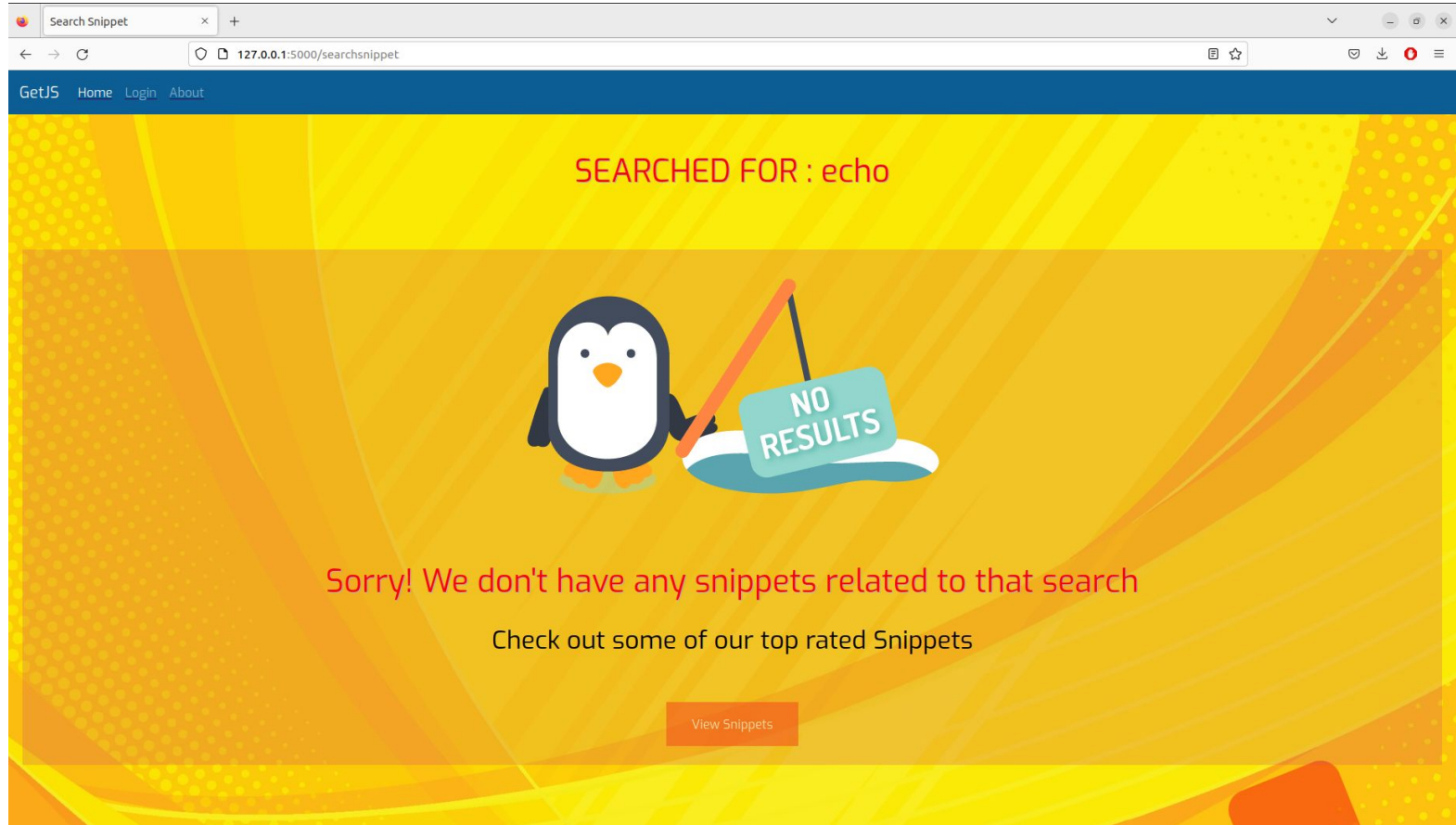
<input type="text" value="TestUser26"/>	<input type="text" value="testuser26"/>
Name	User Name
<input type="text" value="testuser@gmail.com"/>	<input type="text" value="9876543210"/>
Email	Contact Number
<input type="password" value="*****"/>	<input type="password" value="*****"/>
Password	Confirm Password

Login Page

The screenshot shows a web browser window with the title "Login Page" and the address bar displaying "127.0.0.1:5000/login". The main content area has a dark blue background. In the center, there is a dark gray rounded rectangle containing the login form. The form has the following elements:

- LOGIN**: A bold heading in white text.
- Enter your User credentials**: A subtitle in light gray text.
- Username field**: A white input field containing the text "sharanya". Below the field is the label "Username" in light gray.
- Password field**: A white input field containing masked characters "*****". Below the field is the label "Password" in light gray.
- Login button**: A white button with the text "Login" in dark gray.
- Sign Up link**: A link at the bottom that says "Don't have an account? [Sign Up](#)" in light gray.

No Match Search Result



Top Rated Searches

GetJS Home Login About

Top Rated Searches

Name : **Looping over an object's keys and values** Rating : 30

Description : Looping over an object's keys and values

Code :

```
let myObject = { one: 1, two: 2, three: 3 };
Object.keys(myObject).forEach((key, value) => {
  //...do something
  console.log(key, value);
});
```

Submitted by : user

Uploaded on : 28-10-2022

👍 👎

Name : **Maximum Element in Array** Rating : 11

Description : Returns [number] Maximum Elements from an array

About Us Page

GetJS

About Us

GetJS was formed to solve the age old developers' problem -
Finding quality, verified Code Snippets

GetJS is a Code Snippet Recommender is a system which allows the users to search JS code snippets by giving input in the form of string of keywords.
The user can also copy the code snippet using the copy button, view and rate snippets.

GetJS makes it easy for developers' community to quickly search the short but commonly used code snippets using valid keywords.
Also, it gives the developers' community a facility to upload and hence contribute their own code snippets which will then be available to the other developers as well.

Our Team



Anurag Ghosh
Member

Masters in Technology in Computer Science and
Information Security(IIT, Hyderabad)

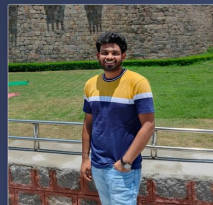
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Our Mentor



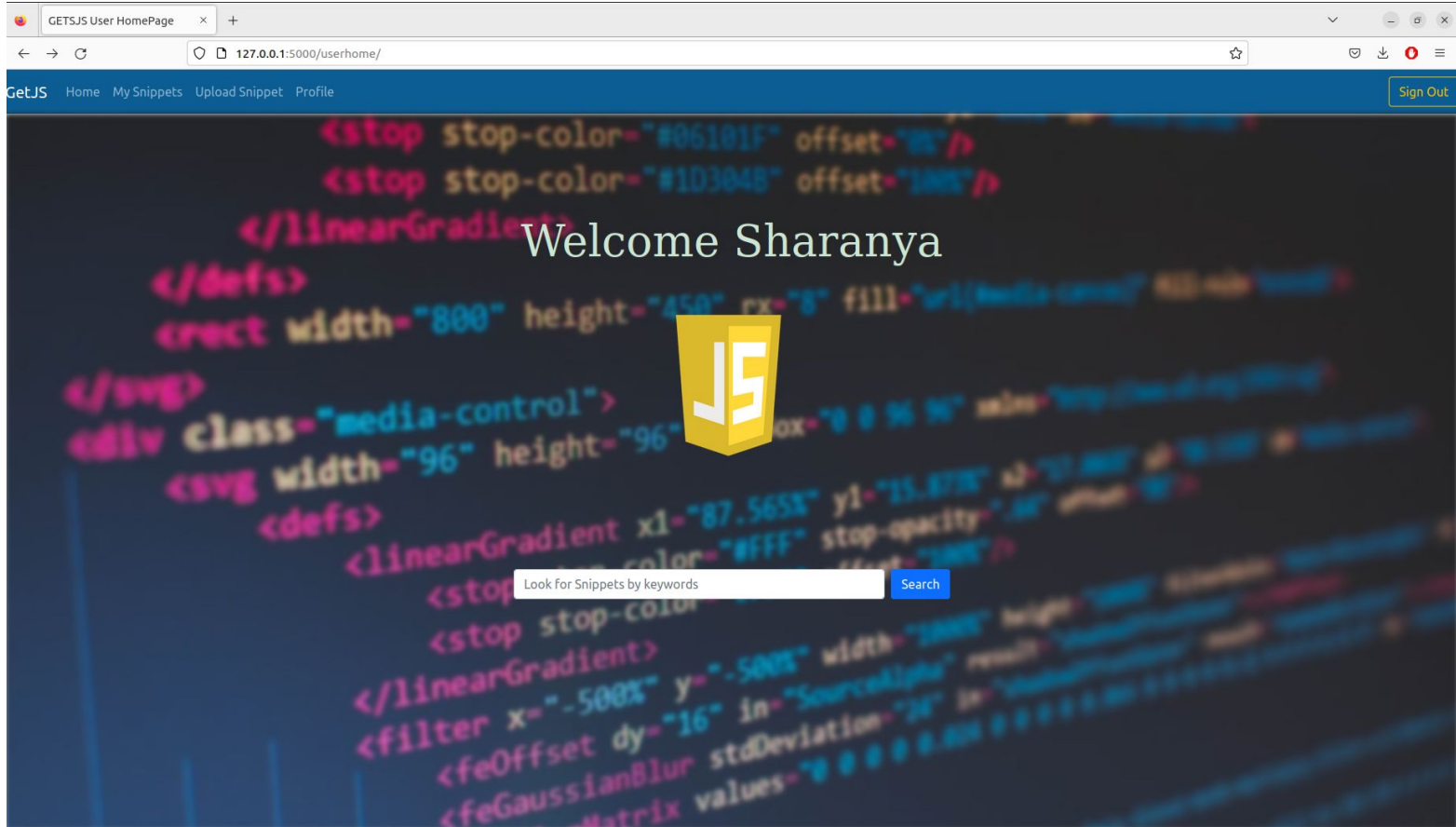
Sai Anirudh Karre
Mentor

Product @ SumTotal | PhD Scholar @ IIITH

✉ sainirudh.karre@research.iiit.ac.in



Homepage after Login



Upload Snippet (allowed only after login)

Document x +

127.0.0.1:5000/uploadsnip/

UPLOAD SNIPPET

Upload JavaScript Code Snippet

for loop

Code Snippet Name

loop,for

Keywords

Loops through the the range specified by index i

Description

```
for (let i = 0; i < cars.length; i++) {  
  text += cars[i] + "<br>";  
}
```

Code

Submit

My Snippets view

My Uploads

127.0.0.1:5000/viewsnipFunc

GetJS Home My Snippets Upload Snippet Profile Sign Out

Name : **Single Line Arrow Function** Rating : 0

Description : An example of how to use Single Line Arrow Functions, that return sum and multiplication of two numbers.

Code :

```
let add = (a,b) => a+b;
let mul = (a,b) => a*b;
```

Copy

Submitted by : sharanya

Uploaded on : 2022-11-29 20:07:45.529000

Name : **for loop** Rating : 0

Description : Loops through the the range specified by index i

Search (after login)

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/logsearchall'. The page title is 'Search all Snippets'. The navigation bar includes links for 'Home', 'My Snippets', 'Upload Snippet', and 'Profile', along with a 'Sign Out' button. The main content area displays 'All results for : num'. A search result card for 'Number to Array of digits' is highlighted, showing a description, code, and a rating of 10.0. The code is a JavaScript function to convert a number to an array of digits. Below the code, it shows the submitter 'user' and the upload date '28-10-2022'. A second result card for 'Perfect Square' is partially visible at the bottom.

Search all Snippets

127.0.0.1:5000/logsearchall

GetJS Home My Snippets Upload Snippet Profile Sign Out

All results for : num

Name : **Number to Array of digits** Rating : 10.0

Description : Convert a Number to an Array of Digits

Code :

```
const convertToArray=number=>[...`${number}`).map(el=>
parseInt(el));
//EXAMPLE
convertToArray(5678);//[5,6,7,8]
```

Copy

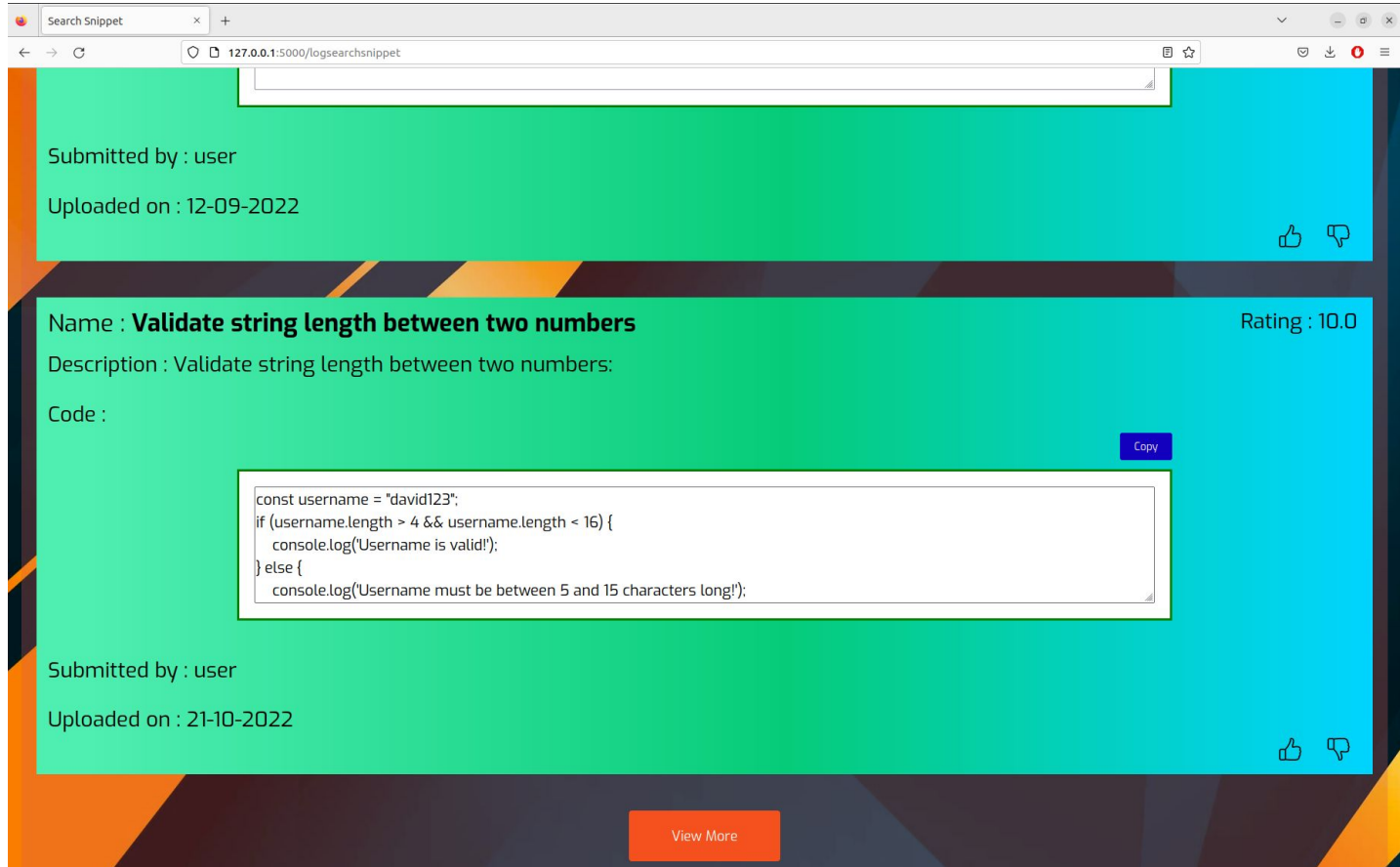
Submitted by : user

Uploaded on : 28-10-2022

Name : **Perfect Square** Rating : 10.0

Description : Check if a number is a power of two

Search Results if more than Six



Search all Snippets

127.0.0.1:5000/logsearchall

```
const factorialOfNumber=number=>
number<0?()=>={
throw new TypeError('No negative numbers please');
})();
number<=1
```

Submitted by : user

Uploaded on : 28-10-2022

👍👎

Name : **Single Line Arrow Function**

Rating : 0

Description : An example of how to use Single Line Arrow Functions, that return sum and multiplication of two numbers.

Code :

```
let add = (a,b) => a+b;
let mul = (a,b) => a*b;
```

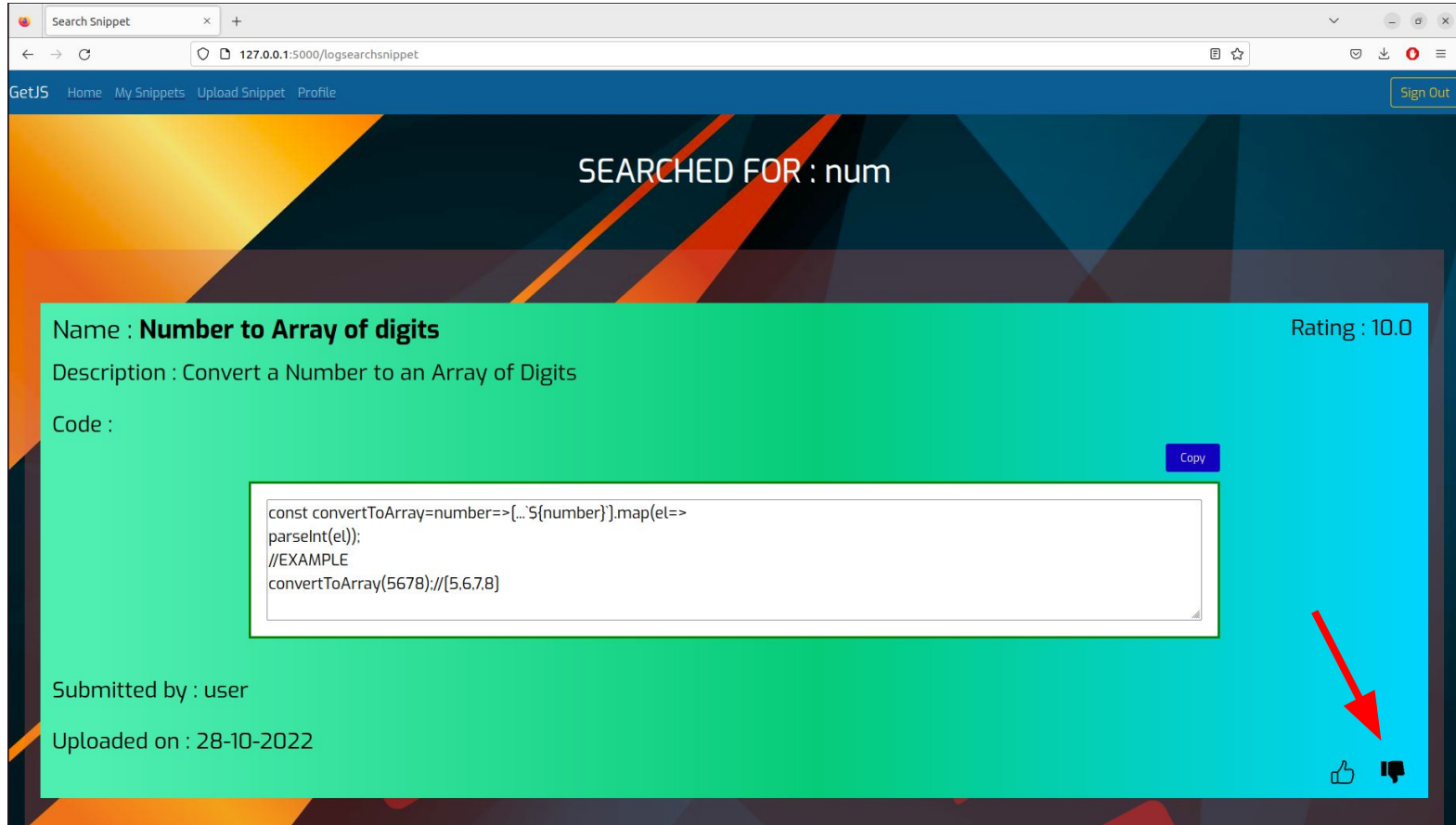
Copy

Submitted by : sharanya

Uploaded on : 2022-11-29 20:07:45.529000

👍👎

Downvote for Snippets (similar functionality for Upvote also present)



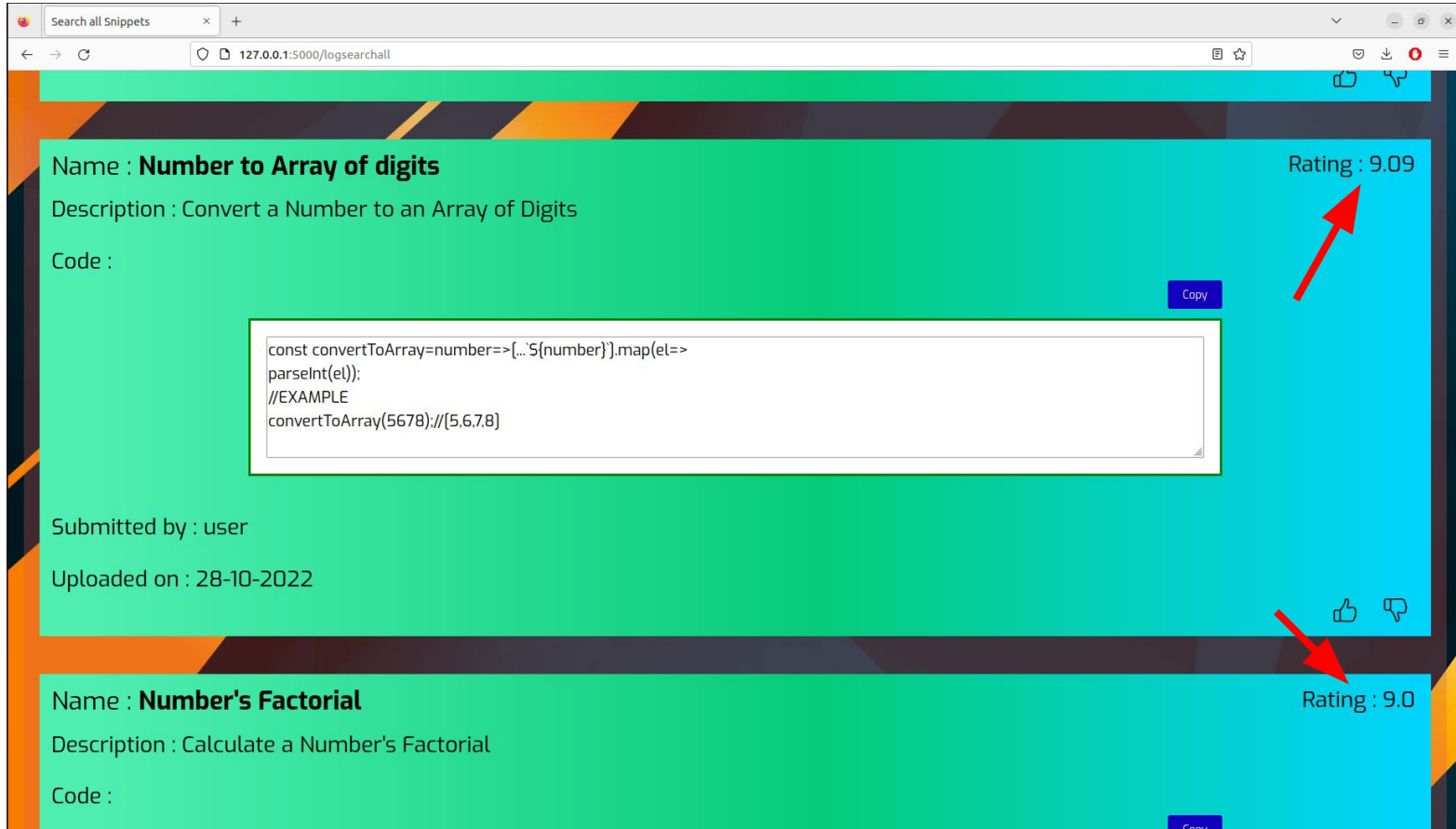
The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5000/logsearchsnippet". The page has a blue header with navigation links: "GetJS", "Home", "My Snippets", "Upload Snippet", and "Profile". A "Sign Out" button is in the top right corner. The main content area has a dark blue background with the text "SEARCHED FOR : num". Below this is a light blue card containing the following information:

- Name :** Number to Array of digits
- Description :** Convert a Number to an Array of Digits
- Code :**

```
const convertToArray=number=>[...`${number}].map(el=>
parseInt(el));
//EXAMPLE
convertToArray(5678);//[5,6,7,8]
```
- Submitted by :** user
- Uploaded on :** 28-10-2022
- Rating :** 10.0

A red arrow points to a thumbs-down icon in the bottom right corner of the card, indicating the downvote functionality.

Rating Change after Downvote/Upvote (rating out of 10)



The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/logsearchall'. The page features two code snippets, each with a green background and a cyan border. The first snippet is titled 'Number to Array of digits' and has a rating of 9.09. The second snippet is titled 'Number's Factorial' and has a rating of 9.0. Both snippets include a description, a code block, and a 'Copy' button. The first snippet's code block is highlighted with a red box. The ratings are displayed in the top right corner of each snippet, and the voting controls (thumbs up and thumbs down icons) are located at the bottom right of each snippet. Red arrows point to the ratings and the voting controls.

Search all Snippets x +

127.0.0.1:5000/logsearchall

Name : **Number to Array of digits** Rating : 9.09

Description : Convert a Number to an Array of Digits

Code :

```
const convertToArray=number=>[...`${number}`).map(el=>
parseInt(el));
//EXAMPLE
convertToArray(5678);//[5,6,7,8]
```

Copy

Submitted by : user

Uploaded on : 28-10-2022

Name : **Number's Factorial** Rating : 9.0

Description : Calculate a Number's Factorial

Code :

Copy



THANK YOU