

readme.md for @push.rocks/smarturl

a url parsing lib

Install

To install `@push.rocks/smarturl`, you'll need Node.js and npm on your system. Once you have those set up, run the following command in your terminal:

```
npm install @push.rocks/smarturl --save
```

This will add `@push.rocks/smarturl` to your project's dependencies.

Usage

`@push.rocks/smarturl` is a library designed to simplify the parsing and manipulation of URLs within your TypeScript projects. Below is an overview of how you can leverage this library effectively in various scenarios.

Basic URL Parsing

To start parsing URLs, you first need to import `@push.rocks/smarturl` into your TypeScript file:

```
import { Smarturl } from '@push.rocks/smarturl';
```

Now, you can parse a URL string and access its components:

```
const myUrl = Smarturl.createFromUrl('https://www.example.com:8080/path?query=string#hash');  
  
console.log(myUrl.href); // https://www.example.com:8080/path?query=string#hash  
console.log(myUrl.protocol); // https:
```

```
console.log(myUrl.host); // www.example.com:8080
console.log(myUrl.pathname); // /path
console.log(myUrl.search); // ?query=string
console.log(myUrl.hash); // #hash
console.log(myUrl.searchParams); // { query: 'string' }
```

Modifying Search Parameters

`@push.rocks/smarturl` makes it easy to modify search parameters of a URL:

```
// Creating a URL with initial search parameters
const myUrl = Smarturl.createFromUrl('https://www.example.com', {
  searchParams: {
    page: '1',
    filter: 'none',
  },
});

// Adding or updating search parameters
myUrl.searchParams['filter'] = 'newVal';
myUrl.searchParams['newParam'] = 'value';

console.log(myUrl.toString()); //
https://www.example.com:443/?page=1&filter=newVal&newParam=value
```

Complex URL Creation

Sometimes you may need to create a URL from parts:

```
let myUrl = new Smarturl();
myUrl.protocol = 'https';
myUrl.hostname = 'www.example.com';
myUrl.port = '3000';
myUrl.pathname = '/path/to/resource';
myUrl.searchParams = {
  key: 'value',
  another: 'parameter'
};
```

```
console.log(myUrl.toString()); // Prints the full URL
```

Handling Username and Password in URL

You can also include authentication details within the URL:

```
const myUrl = Smarturl.createFromUrl('https://user:password@www.example.com');  
console.log(myUrl.username); // user  
console.log(myUrl.password); // password
```

Working with URL Paths and Hashes

Manipulating paths and hashes is straightforward:

```
const myUrl = Smarturl.createFromUrl('https://www.example.com/path/to/resource');  
myUrl.hash = 'section1';  
  
console.log(myUrl.toString()); // https://www.example.com:443/path/to/resource#section1
```

URL Encoding and Decoding

When working with URLs, encoding and decoding of search parameters is handled automatically by the library. This ensures that the URL remains valid and interpretable by browsers and servers.

```
const myUrl = Smarturl.createFromUrl('https://www.example.com');  
myUrl.searchParams['redirect_uri'] = 'https://www.redirect.com/path';  
  
console.log(myUrl.toString()); // Automatically encodes the URI
```

In addition to basic parsing and manipulation, [@push.rocks/smarturl](https://github.com/pushrocks/smarturl) provides methods for deep manipulation of URLs, aiding in scenarios where complex URL operations are needed.

By understanding and utilizing these features, you can handle most URL-related tasks within your TypeScript applications with ease, ensuring that URLs are constructed, interpreted, and modified in a consistent and error-free manner.

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Revision #3

Created 2026-03-28 11:12:41 UTC by foss.global Team

Updated 2026-03-28 12:19:27 UTC by foss.global Team