What are url parameters and how to work with them in JavaScript?

URL parameters or query string parameters are used to send a piece of data from client to server via a URL. They can contain information such as search queries, link referrals, user preferences, etc.

JavaScript has a default class URL used to handle everything about URLs, including the parameters.

You can make a URL instance from any URL string you wish. If you want to access the URL of the current web page a user is browsing, you can use window.location.toLocaleString(). Otherwise, you can use anything like “https://example.com/?product=trousers&color=black&newuser&size=s”.

For getting the URL parameters, there are 2 ways:

* By using the [URLSearchParams Object](https://www.geeksforgeeks.org/node-js-urlsearchparams-entries/)
* By using Separating and accessing each parameter pair

**Method1:**

**Using the [URLSearchParams Object](https://www.geeksforgeeks.org/node-js-urlsearchparams-entries/):**The [URLSearchParams](https://www.geeksforgeeks.org/node-js-urlsearchparams-entries/) is an interface used to provide methods that can be used to work with an URL. The URL string is first separated to get only the parameters portion of the URL. The [split() method](https://www.geeksforgeeks.org/javascript-string-split-method/) is used on the given URL with the “?” separator. It will separate the string into 2 parts. The second part is selected with only the parameters. It is then passed to the URLSearchParams constructor.

The [**entries()**](https://www.geeksforgeeks.org/javascript-array-entries-method/) method of this object returns an iterator with the key/value pairs. The key part of the pair can then be retrieved by accessing the first index of the pair and the value can be retrieved by accessing the second index. This can be used to get all the parameters in the URL which can be used as required.

**Method 2: Separating and accessing each parameter pair:**The query string is first separated to get only the parameters portion of the string. The [split() method](https://www.geeksforgeeks.org/javascript-string-split-method/) is used on the given URL with the “?” separator. This will separate the URL into 2 parts and the second part is selected with only the parameters. This string is separated into the parameters by using the split() method again with “&” as the separator. This will separate each parameter string into an array.

This [array](https://www.geeksforgeeks.org/arrays-in-javascript/) is looped through each of the keys and values are separated by splitting with “=” as the separator. It will separate the pairs into an array. The key part of the pair can be retrieved by accessing the first index of the pair and the value can be retrieved by accessing the second index. This can be used to get all the parameters in the URL which can be used as required