

URL Parameters

What are URL Parameters?

URL parameters, also known as query strings, are used to send small amounts of data from page to page or from client to server via URLs. They appear after the "?" symbol in URLs and are often used to track user sessions, identify resources, and set up dynamic content on websites.

How to Work with URL Parameters in JavaScript?

1. **Retrieve URL Parameters:** The `window.location.search` property provides access to the query string. You can use `URLSearchParams` to parse this data.

2. **Extract a Specific Parameter:** Use the `URLSearchParams.get()` method.

```
let params = new URLSearchParams(window.location.search);
```

```
let value = params.get("parameterName");
```

3. **Set a Parameter:** Use the `URLSearchParams.set()` method.

```
params.set("parameterName", "newValue");
```

4. **Delete a Parameter:** Use the `URLSearchParams.delete()` method.

```
params.delete("parameterName");
```

5. **Loop Through All Parameters:** Use the `URLSearchParams.forEach()` method.

```
params.forEach((value, key) => {  
    console.log(key + ": " + value);  
});
```

6. **Update the URL with New Parameters:** After modifying the URL parameters, update the browser's URL using the `history.pushState()` method.

```
history.pushState({}, '', '?' + params.toString());
```