

Date and Time in JavaScript

Introduction

In JavaScript, working with dates and times is essential for various tasks such as displaying current date and time, manipulating dates, and performing date arithmetic.

JavaScript provides the Date object to work with dates and times.

Creating a Date Object

You can create a new instance of the Date object using the new Date() constructor. If no arguments are provided, it creates a Date object representing the current date and time.

```
// Creating a Date object representing current date and
// time
let currentDate = new Date();
console.log(currentDate);
```

Working with Dates

The Date object provides various methods to work with dates, such as getting and setting the year, month, day, hour, minute, second, and milliseconds.

```
// Getting various components of the current date and time
let year = currentDate.getFullYear();
let month = currentDate.getMonth(); // Months are
// zero-based (0-January, 11-December)
let day = currentDate.getDate();
let hours = currentDate.getHours();
let minutes = currentDate.getMinutes();
let seconds = currentDate.getSeconds();
let milliseconds = currentDate.getMilliseconds();
```

Formatting Dates

You can format dates using the toLocaleString() method or by manually constructing a string using the various methods provided by the Date object.

```
// Formatting current date and time
```

```
let formattedDate = currentDate.toLocaleString();
    console.log(formattedDate);
```

Date Arithmetic

JavaScript allows you to perform arithmetic operations on dates, such as adding or subtracting days, months, or years.

```
// Adding 1 day to the current date
currentDate.setDate(currentDate.getDate() + 1);
console.log(currentDate);
```

Conclusion

Understanding how to work with dates and times in JavaScript is crucial for developing applications that involve scheduling, time-sensitive tasks, and displaying dynamic date information to users.