Day 30, Today's Topic

Dates in JS

Part 1: Creating a Date Object

JS DAILY

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/* ======================= Daily JS - Day 30 ======================= */
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  # Day 30: Dates in JS - Part 1

  Hello and welcome back to the 30th day of DailyJS,
  and our topic for this week would be `Dates in JS`.

  Today we will discuss how can we create the Date objects in JS,
  and from tomorrow we will see various methods in the Date Object.

  > JavaScript Date objects represent a single moment in time in a
    platform-independent format. Date objects contain a Number that
    represents milliseconds since 1 January 1970 UTC.
    (source: **MDN web docs**)

  The time - 00:00:00 UTC on 1 January 1970 - is also called as
  the UNIX epoch, and unix time is the number of seconds that
  have elapsed since that time.

  Let's take a look at the various ways of creating the Date Objects.


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  ## Creating the Date Object

  We use the `Date()` constructor to creates a
  new Date object

  There are 4 ways to do so:
  (source: **W3Schools**)

    1. new Date ()
    2. new Date (year, month, day, hours,
                 minutes, seconds, milliseconds)
    3. new Date (miliseconds)
    4. new Date (date string)

  Let's have a look at each one of them

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   ## Method #1

   The first method is to use the Date constructor as it is,
   without any arguments.

   By doing so, we create a new date object having the
   present time and date.

   ```js
     new Date();
   ```


   Example

   ```js
     const currentDate = Date ();
     console.log ("Current date and Time is: ");
     console.log (currentDate);

     // Output:
     // Current Date and Time is:
     // Wed Feb 12 2020 16:09:43 GMT+0530 (India Standard Time)
   ```


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    ## Method #2

    Using this method, we can create a new Date
    object with the given date and time.

    The arguments are - year, month, day, hours,
    minutes, seconds, milliseconds.

    But there is no need to provide all the arguments,
    we can use "1 to 7" number of arguments

    ```js
        new Date(year, month, day, hours, minutes,
            seconds, milliseconds)
    ```


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  /**
   * Dates in JS
   * Creating a Date Object - Method 2
   */

  // 1. With all 7 arguments
  // year, month, day, hour, minute, second, and millisecond
  var d7 = new Date (2020, 1, 12, 16, 20, 00, 00);
  console.log (d7);

  // 2. With 6 arguments
  // year, month, day, hour, minute, second
  var d6 = new Date (2020, 1, 12, 16, 20, 00);
  console.log (d6);

  // 3. With 5 arguments
  // year, month, day, hour, and minute
  var d5 = new Date (2020, 1, 12, 16, 20);
  console.log (d5);

  // 4. With 4 arguments
  // year, month, day, and hour
  var d4 = new Date (2020, 1, 12, 16);
  console.log (d4);

  // 5. With 3 arguments
  // year, month, and day
  var d3 = new Date (2020, 1, 12);
  console.log (d3);

  // 6. With 2 arguments
  // year and month
  var d2 = new Date (2020, 1);
  console.log (d2);

  // 7. With 1 argument
  // With only one argument, it will be taken as milliseconds since the Epoch time
  var d1 = new Date (1581514183500);
  console.log (d1);
  // Also, you can see that the third method is same as this method with 1 argument


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  ## Method #3

  This method is same as the previous method with a
  single argument.

  ```js
    new Date(milliseconds)
  ```


  Let's see an example -

  ```js
    /**
     * Dates in JS
     * Creating a Date Object - Method 3
     */

    // Syntax - new Date (miliseconds)
    var date = new Date (1581514183500);
    console.log (date);
  ```


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   ## Method #4

   We can create a new date object by providing the date
   as a string.

   ```js
     new Date (date-string);
   ```


   Let's see an example -

   ```js
     /**
      * Dates in JS
      * Creating a Date Object - Method 4
      */

     const date1 = new Date ('February 12, 2020 16:20:00');
     const date2 = new Date ('2020-02-12T16:20:00');
   ```


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Thank you!

Feel free to reach out…

Email: theleanprogrammer@gmail.com

Web: madhavbahl.tech/

Github: github.com/MadhavBahlMD

LinkedIn: linkedin.com/in/madhavbahl/

Insta: instagram.com/theleanprogrammer/

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