SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

COURSE NAME: 19CT503- INTERNET PROGRAMMING

III YEAR /V SEMESTER

Unit II- CSS, CLIENT SIDE PROGRAMMING

Topic : INTRODUCTION TO JAVASCRIPT
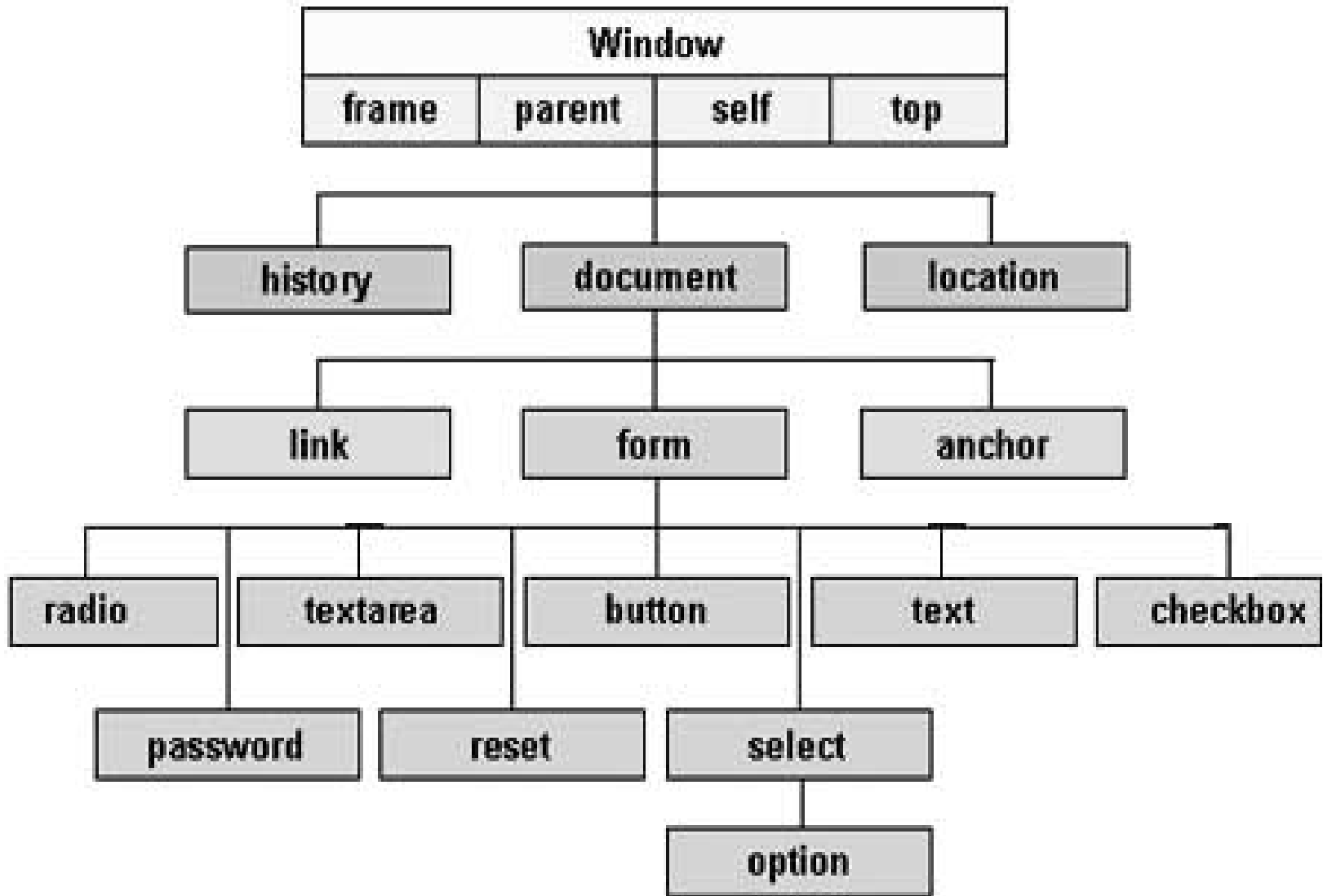
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What is the DOM?

- The DOM is a W3C (World Wide Web Consortium) standard.

- The DOM defines a standard for accessing documents

- *"The W3C Document Object Model (DOM) is a platform and language-neutral interface that allows programs and scripts to dynamically access and update the content, structure, and style of a document."*

- Every web page resides inside a browser window which can be considered as an object.

- A Document object represents the HTML document that is displayed in that window.

- The Document object has various properties that refer to other objects which allow access to and modification of document content.

- The way a document content is accessed and modified is called the **Document Object Model**, or **DOM**.

- The Objects are organized in a hierarchy. This hierarchical structure applies to the organization of objects in a Web document.

- **Window object** − Top of the hierarchy. It is the outmost element of the object hierarchy.

- **Document object** − Each HTML document that gets loaded into a window becomes a document object. The document contains the contents of the page.

- **Form object** − Everything enclosed in the <form>...</form> tags sets the form object.

- **Form control elements** − The form object contains all the elements defined for that object such as text fields, buttons, radio buttons, and checkboxes.

Date

- The **JavaScript date** object can be used to get year, month and day. You can display a timer on the webpage by the help of JavaScript date object.

- You can use different Date constructors to create date object. It provides methods to get and set day, month, year, hour, minute and seconds.

Date-Constructor

- 4 variant of Date constructor to create date object.
- Date objects are created with the new Date() constructor.
- Date()
- Date(milliseconds)
- Date(dateString)
- Date(year, month, day, hours, minutes, seconds, milliseconds)

- new Date() creates a new date object with the **current date and time.**

- var d = new Date();

- new Date(*year, month, ...*) new Date(*year, month, ...*) creates a new date object with a **specified date and time**.

- 7 numbers specify year, month, day, hour, minute, second, and millisecond (in that order)

- var d = new Date(2018, 11, 24, 10, 33, 30, 0);

- **Note:** JavaScript counts months from 0 to 11.

- January is 0. December is 11.

JavaScript new Date()

Using new Date(7 numbers), creates a new date object with the specified date and time:

Mon Dec 24 2018 10:33:30 GMT+0530 (India Standard Time)

- new Date(*dateString*) creates a new date object
from a **date string**
var d = new Date("October 13, 2014 11:13:00");

JavaScript new Date()

A Date object can be created with a specified date and time:

Mon Oct 13 2014 11:13:00 GMT+0530 (India Standard Time)

- new Date(*milliseconds*) creates a new date object as **zero time plus milliseconds**

- var d = new Date(0);

JavaScript new Date()

Using new Date(milliseconds), creates a new date object as January 1, 1970, 00:00:00 Universal Time (UTC) plus the milliseconds:

Thu Jan 01 1970 05:30:00 GMT+0530 (India Standard Time)

THANK YOU