DOCUMENT OBJECT MODEL

WHAT IS DOM??

- *The Document Object Model (DOM) is a programming API for HTML and XML documents. It defines the logical structure of documents and the way a document is accessed and manipulated.*

- *With the Document Object Model, programmers can create and build documents, navigate their structure, and add, modify, or delete elements and content.*

- *There are mainly three types of DOM namely :*
  - *CORE DOM*
  - *HTML DOM*
  - *XML DOM*

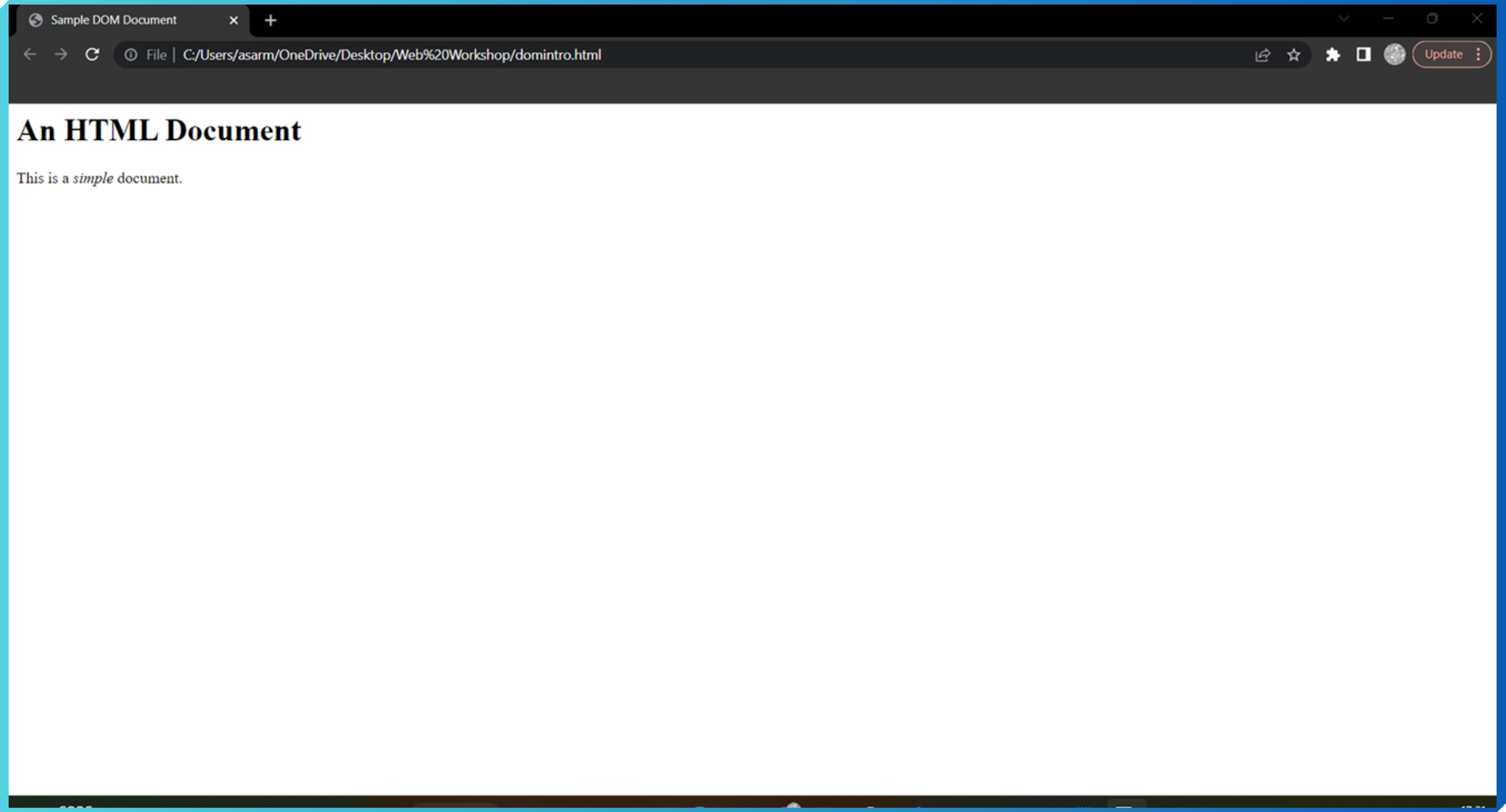
HTML DOM

WHEN A WEB PAGE IS LOADED, THE BROWSER CREATES A DOCUMENT OBJECT MODEL OF THE PAGE.

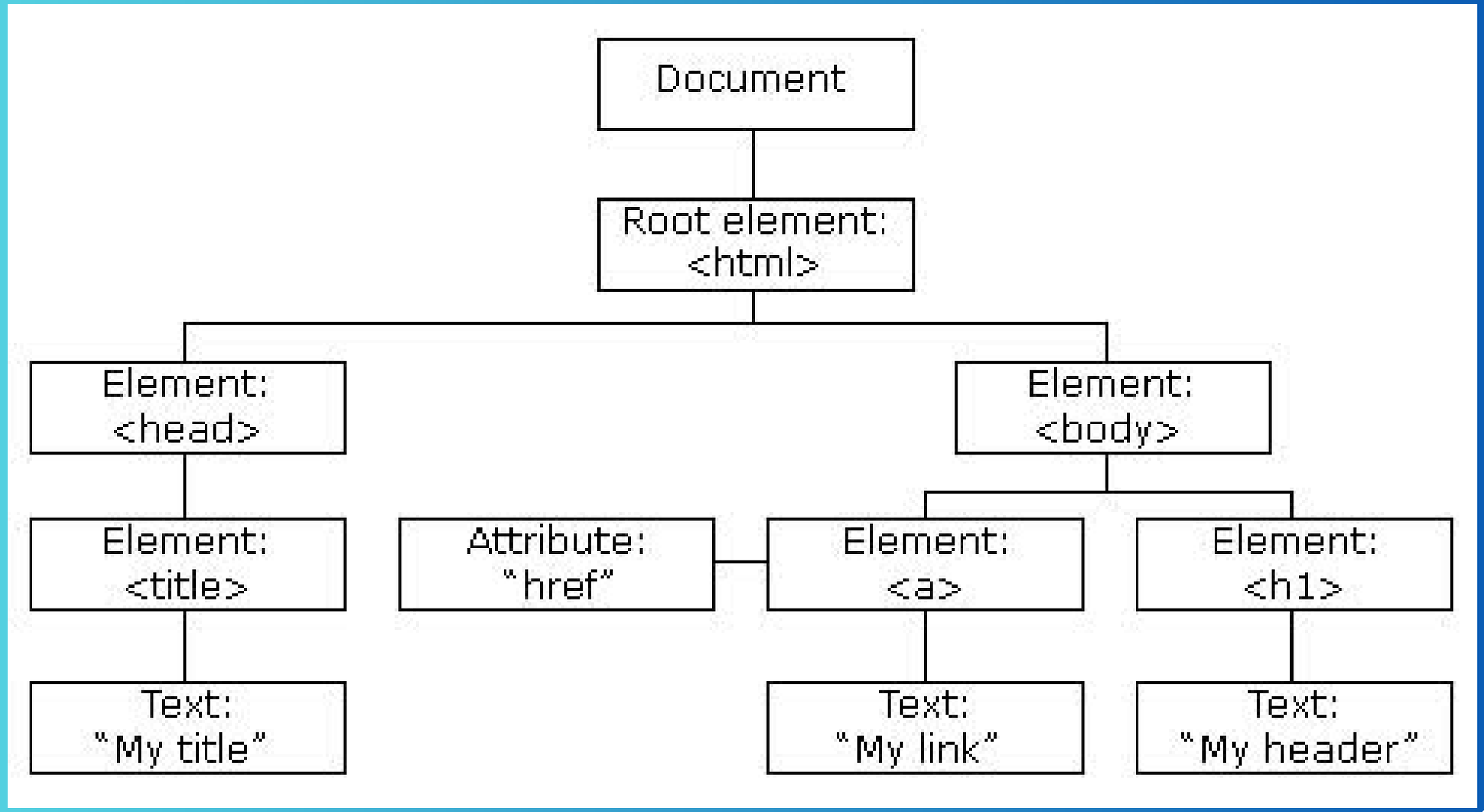
This is what a programmer sees when they write an HTML code

```
<html>
  <head>
    <title>Sample DOM Document</title>
  </head>
  <body>
    <h1>An HTML Document</h1>
    <p>This is a <i>simple</i> document.
  </body>
</html>
```

This is what user sees



This is the Flowchart of the Model that your browser is working for the page



WHAT DOES DOM DO?

1. IT PROVIDES METHOD TO ACCESS ALL HTML ELEMENTS OF A PARTICULAR HTML DOCUMENT

2. IT DEFINES HTML ELEMENTS AS OBJECTS AND WE CAN CHANGE THE ***PROPERTIES*** *OF THAT PARTICULAR HTML ELEMENT THROUGH THAT OBJECT*

3. IT DEFINES ***EVENTS*** *FOR ALL HTML ELEMENTS*

METHODS FOR FINDING HTML ELEMENTS

document.getElementById(id)	This method finds an element by its ID
document.getElementByTagName(tag)	This method finds an element by its Tag
document.getElementByClassName(class)	This element finds an element by its Class name
Document.querySelectorAll(query selector)	This method finds an element by its CSS query Selector

METHODS FOR CHANGING HTML ELEMENTS

element.innerHTML=“value”	Changes the inner HTML of an element
element.attribute=new value	Changes a particular attribute of the element
element.style.property=new style	Changes the colour of the Element

Let's code.
Right Now!
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EVENTS

Events are things that happen in the system you are programming, which the system tells you about so your code can react to them

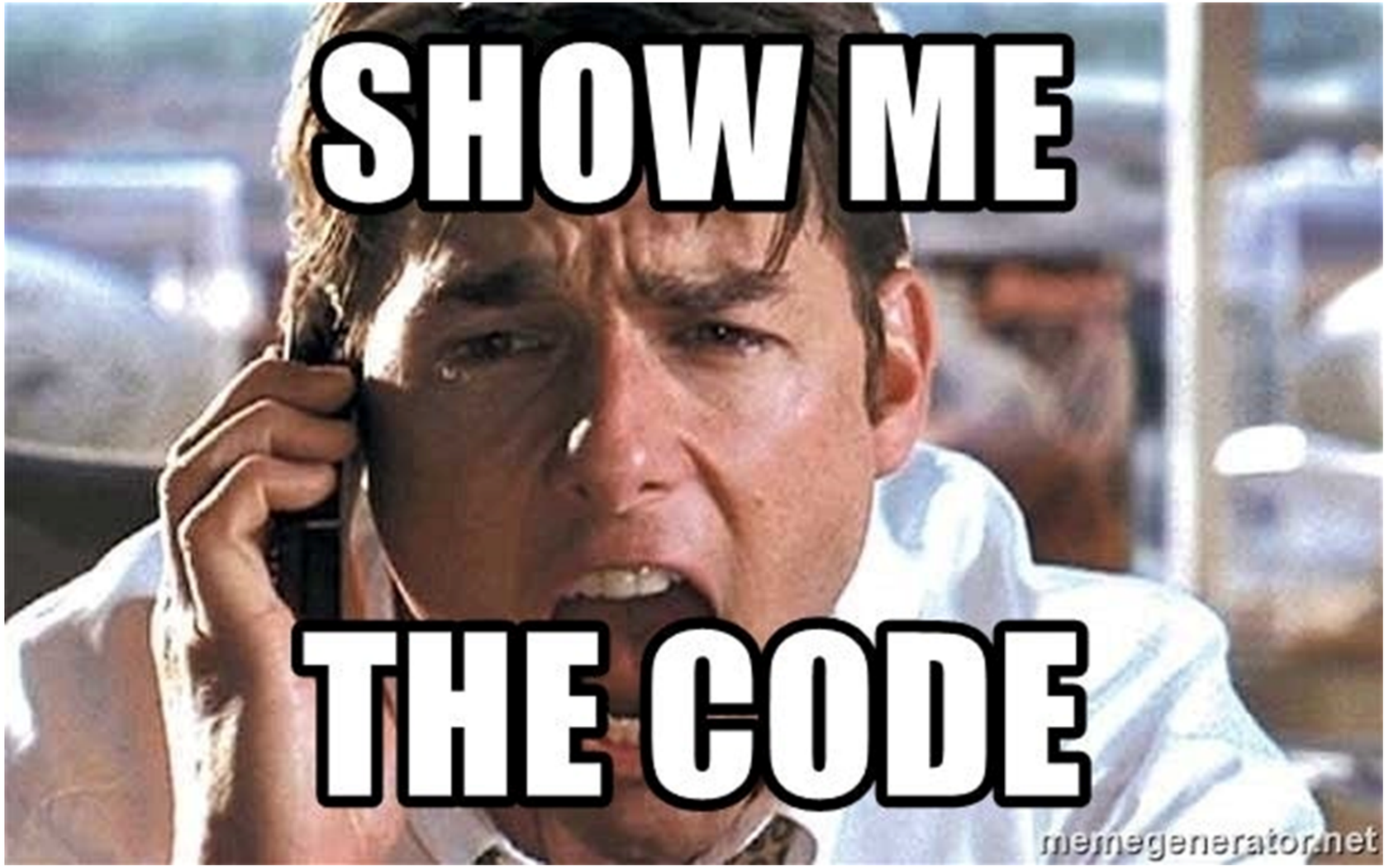
- When a user clicks the mouse
- When a web page has loaded
- When an image has been loaded
- When an input field is changed
- When an HTML form is submitted

EVENT LISTENERS

The event Listeners basically react to those events which have occurred

element.onclick=function()

element.addEventListener(event,function())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