



Amrutvahini College of Engineering, Sangamner
Department of Electronics and Telecommunication Engineering
Subject: JavaScript (Elective-III) (BE, E&TC)

Experiment No.: 08

Date of Performance:

TITLE: create dynamic webpage using html code and JavaScript code to handle the different events

Aim: Write an html code to create dynamic webpage using html code and JavaScript code to handle the different events

Problem Statement: Write a JavaScript program to create a Home page of any website and change background color using:

- i) mouseover event
- ii) focus event

Objective:

1. Learn how to create a webpage
2. Learn basics of event handling
3. Learn different methods in Javascript language.

Software Requirement:

- **IDE Software:** Visual Studio Code / Sublime Text3
- **Web Browser:** Google Chrome / Firefox/ Internet Explorer.

Operating System: Windows 7/10, Linux or MAC OS

Theory:

HTML Events

An HTML event can be something the browser does, or something a user does.

Here are some examples of HTML events:

- An HTML web page has finished loading
- An HTML input field was changed
- An HTML button was clicked

Often, when events happen, you may want to do something.

JavaScript lets you execute code when events are detected.

HTML allows event handler attributes, with JavaScript code, to be added to HTML elements.

With single quotes:

<element event='some JavaScript'>

With double quotes:

<element event="some JavaScript">

In the following example, an onclick attribute (with code), is added to a <button> element:

Example

<button onclick="document.getElementById('demo').innerHTML = Date()">The time is?</button>

Common HTML Events

Here is a list of some common HTML events:

Event	Description
onchange	An HTML element has been changed
onclick	The user clicks an HTML element
onmouseover	The user moves the mouse over an HTML element
onmouseout	The user moves the mouse away from an HTML element
onkeydown	The user pushes a keyboard key
onload	The browser has finished loading the page

JavaScript Event Handlers

Event handlers can be used to handle and verify user input, user actions, and browser actions:

- Things that should be done every time a page loads
- Things that should be done when the page is closed
- Action that should be performed when a user clicks a button
- Content that should be verified when a user inputs data
- And more ...

Many different methods can be used to let JavaScript work with events:

- HTML event attributes can execute JavaScript code directly
- HTML event attributes can call JavaScript functions
- You can assign your own event handler functions to HTML elements
- You can prevent events from being sent or being handled
- And more ...

Conclusion:

Review Questions:

1. What is event ? How to declare the event function in HTML document ?
2. What is DOM (Document Object Model)? Explain the use of getElementById() method.
3. How we can access the value entered in HTML forms.
4. Explain the use of addEventListener() method with example.

REFERENCES:

1. Jon Duckett, "JavaScript & JQuery: Interactive Front-End Web Development", Wiley, ISBN-13. 978-1118531648
2. David Flanagan, "JavaScript: The Definitive Guide", O'Reilly, 6th Edition, ISBN: 9781491952023.
3. Mike Mackgrath, "Javascrpts in easy steps" Dreamtech