**Program 6**

**PART-A**

**A.1 Aim:**

Implementing Jquery in web application

Implement certain Jquery effects as in https://www.huxleydigital.co.uk/

**A.2 Prerequisite:**

HTML,CSS, Javascript

**A.3 Outcome:**

After successful completion of this experiment students will be able to

1. Understand and implement Jquery events, selectors, actions in a web application

**A.4 Theory:**

* jQuery is a lightweight, JavaScript Library.
* jQuery takes a lot of common tasks that require many lines of JavaScript code to accomplish, and wraps them into methods that you can call with a single line of code.
* Jquery Library contains
  + HTML/DOM manipulation
  + CSS manipulation
  + HTML event methods
  + Effects and animations
* Selectors
  + jQuery selectors allow you to select and manipulate HTML element(s).
  + Three types of selectors: element (Ex “p”), Id(Ex #p), Class(Ex .p)
* Events
* jQuery is tailor-made to respond to events in an HTML page.
* Some common Jquery Events include

|  |  |  |  |
| --- | --- | --- | --- |
| **Mouse Events** | **Keyboard Events** | **Form Events** | **Document/Window Events** |
| click | keypress | submit | load |
| dblclick | keydown | change | resize |
| mouseenter | keyup | focus | scroll |
| mouseleave |  | blur | unload |

* **Effects**
  + Hide, Show, Fade in, Fade Out, Animate

**Ex:**

$("p").click(function(){  
    $(this).hide();  
}); Event

Selector Effect

**Note: It is left to discretion of students to decide on what effects and events to handle. But mandatory are animate, fade, show**

**Selecting HTML elements the old fashioned way (without jQuery)**

var firstPara = document.getElementById('first\_para');

whereas in jQuery, it looks like this:

var firstPara = $('#first\_para');

#### Using jQuery ****selectors**** to access elements

var a = $('.even'); ---------->This will select all elements with class even

var e = $('p.even'); ---------🡪This will select p element with class even

##### **A set of very simple examples of jQuery selectors***:*

$(document); // Activate jQuery for object

$('#mydiv') // Element with ID "mydiv"

$('p.first') // P tags with class first.

$('p[title="Hello"]') // P tags with title "Hello"

$('p[title^="H"]') // P tags title starting with H

### Altering elements’ appearances with jQuery

<div id="box1">This is box 1</div>

<script>

$('#box1').css('background', 'red');

</script>

elements.css('property-name', 'property-value');

Example

<div id="box1">This is box 1</div>

<div id="box2">This is box 2</div>

<div id="box3">This is box 3</div>

<button id="change\_box1">Click me to change the first box!</button>

<script>

$('#change\_box1').click(function() {

$('#box1').css('background', 'red').css('color', 'white');

});

</script>

For more information:

http://api.jquery.com/category/selectors/

https://www.w3.org/TR/selectors-3/

**PART B**

**(PART B: TO BE COMPLETED BY STUDENTS)**

**(Students must submit the soft copy as per following segments within two hours of the**

**practical. The soft copy must be uploaded on the Blackboard or emailed to the concerned**

**lab in charge faculties at the end of the practical in case the there is no Black board access**

**available)**

**B.1 Software Code written by student:**

**(Students must paste the code here)**

**B.2 Input and Output**

**(Students must paste input and output here)**

**B.3. Observations and Learning**

**(Students are expected to comment on the output obtained with clear observations and learning for each task/ sub part assigned**

**B.4. Conclusion**

**(Students must write the conclusion as per the attainment of individual outcome listed above and learning/observation noted in Sec. B.3)**