Lecture 18

Quick Overview to JQuery

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- ▶ jQuery is a library of helper functions that are cross browser–compatible.

- ▶ It is an open source add-in that provides an easy, browser-agnostic means for writing JavaScript.

- ▶ jQuery is written in JavaScript, so it is JavaScript.

- ▶ Make your JavaScript code shorter, faster and cross browser.

- ▶ Manipulate your HTML, like showing or hiding something from the page.

- ▶ Handles events – it can do something when a user click a button or any other activity a user can do with a mouse.

- ▶ Animation – for example make a part of your page fade in, fade out or just simply make something move.

- ▶ AJAX – do a server request without refreshing your whole web page

JQuery Selectors

▶ The most important purpose of jQuery is: **select elements and do some action on those selected elements.**

▶ The jQuery selectors allow you to search or select HTML elements and then perform intended action on those.

▶ *Selectors in jQuery start with:* **$()**

▶ **For example: $('tag_name') , $("#ID"), $(".class")**

▶ **Note: Run Jquery when DOM is ready I;e;**

  ▶ **$(document).ready( )**

Categories of functionality jQuery Provides

▶ **Ajax (**Asynchronous JavaScript and XML **)** Methods that provide synchronous and asynchronous calls to the server

▶ **Attributes** Methods that get and set attributes of document object model (DOM) elements

▶ **Callbacks object** An object that provides many methods for managing callbacks

▶ **Core** Methods that provide core jQuery functionality

▶ **CSS** Methods that get and set CSS-related properties

▶ **Data** Methods that assist with associating arbitrary data with DOM elements

▶ **Deferred object** A chainable object that can register multiple callbacks into call-back queues and relay the success or failure state of any synchronous or asynchronous functions

- **Dimensions** Helper methods for retrieving and setting DOM element dimensions

- **Effects** Animation techniques that can be added to your webpage

- **Events** Methods that provide the ability to register code to execute when the user interacts with the browser

- **Forms** Methods that provide functionality when working with form controls

- **Offset** Methods for positioning DOM elements

- **Selectors** Methods that provide the ability to access DOM elements by using CSS selectors

- **Traversing** Methods that provide the ability to traverse the DOM

- **Utilities** Utility methods This lesson only scratches the surface of jQuery's capabilities, but subsequent lessons use jQuery whenever possible.

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JQuery Events

- $("button").click(function(){

// do something when user click the button

});

- $("form").submit(function(){

// do something when user submits a form

});

- $("#myDiv").hover(function(){

// do something when user hover an HTML element

});

- $("#myTextbox").keyup(function(){

// do something when user types on a textbox with ID
myTextbox

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Class Practical Examples

- ▶ Hide Show Content on Button Click
- ▶ Slide Down & Slide Up Content on Click
- ▶ Toggle & Fade Text on Button Click
- ▶ Animations on Click

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