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## JQuery Course Contents

### Refresher/Walkthrough of Javascript

- What is Javascript? What is it used for?
- Explaining the browser Document Object Model
- Invoking Javascript on Load Event of Page in the right way
- Invoking Javascript on events like TextBox KeyUp and Button Click
- Form Validation on Submit using Javascript
- An example of a Loan Calculator using Javascript that explains common javascript tasks like
  - Input Validations
  - Mathematical Calculations
  - Setting the contents and visibility of specific areas of the form

### Introduction to JQuery

- What is JQuery?
- Why JQuery?
- Browser Compatibility
- Getting Started With JQuery
  - Downloading JQuery Library
  - Referencing JQuery from Web Pages
  - Using CDNs to improve performance

### Programming with JQuery

- Basic JQuery syntax

- Calling a JQuery function on Page Load and Document Ready events
- JQuery Selectors (covers all 47 JQuery selectors)
- Extending JQuery to create custom selectors
- Handling common events like hover,click etc. with JQuery
- Using the “on” method to attach multiple events and event handlers
- DOM Traversal with JQuery
  - Ancestors
  - Descendants
  - Siblings
  - Filtering
- DOM Manipulation with JQuery
  - Adding, Removing Changing contents like text value and attributes
  - Manipulating CSS classes
  - Modifying Dimensions
- JQuery Effects
  - Hide/Show
  - Fade
  - Slide
  - Animate
  - stop
  - Callback
  - Chaining
- Using JQuery with other libraries (noconflict)
- Handling Drag and Drop with JQuery

## JSON and JQuery

- Introduction to JSON
- Traversing and Accessing JSON elements with JQuery
- Manipulating JSON data with JQuery

## AJAX and JQuery

- Introduction to AJAX
- Making a AJAX calls using Javascript and XMLHttpRequest
- Calling Load Method to load HTML content and its significance in responsive UI design'
- JQuery AJAX get and post requests
- Combining AJAX calls with when() and then()

# JQuery Plugins

- Finding, evaluating and using common JQuery plugins from the Developer community.  
Examples covered are -
  - Accordion
  - Tabs
  - DateTime
  - Timespan
  - Autocomplete
  - Modal Popup
- Creating custom plugins
  - Creating a basic Plug-in
  - Creating a Stateful Plugin
  - Creating a Stateful Plugin with AJAX

# Building Cross-Platform Mobile Pages with jQuery Mobile

- Structuring pages with HTML5 data-\* attributes
- Saving space with listviews and collapsible blocks
- Initializing pages and handling touch events
- Creating and validating Mobile forms

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