# jQuery Mobile

Lesson 01: Introduction to jQuery Mobile



# Lesson Objectives

- In this lesson, you will learn:
- What is jQuery Mobile?
- Overview of features
- Building your first jQuery Mobile app





# jQueryMobile Overview

- Mobile applications are of two types:
  - Native applications: are compiled programs that run natively on the device
  - Mobile web applications: run inside a web browser on the device.
- jQuery Mobile (jQM) is designed to create mobile web applications that function on a broad range of devices.
- jQuery Mobile allows to quickly create mobile web applications:
  - That look and behave consistently across all supported devices
  - That have advanced user interface capabilities.
- jQuery Mobile gives the developer:
  - a standard set of layouts
  - User interface widgets and interactions and
  - A rich API for applying and extending them.



# jQueryMobile Overview

- jQuery Mobile is a free, open-source, cross-platform, JavaScript library that you can use for developing mobile websites
- It is supported by all the big players including iOS, Android, Bada, BlackBerry, Nokia, Adobe
- It is based on the popular jQuery JavaScript library.
  - jQuery UI is focused on desktop applications while jQuery Mobile is built with mobile devices in mind.
- jQuery Mobile uses HTML 5 and CSS3 features to enhance basic HTML markup to create a consistent mobile experience across supported platforms.



### jQueryMobile Features

- Cross platform, cross device, and cross browser
- UI optimized for touch devices
- Themable and customizable design
- Usage of nonintrusive semantic HTML5 code only, without the need of any JavaScript, CSS, or API knowledge
- > AJAX calls automatically to load dynamic content
- Built on the well-known and supported jQuery core
- Lightweight size, 12Kb compressed
- Progressive enhancement
- Responsive design



# How to get jQuery mobile

- You can include jQuery Mobile into your website fast and easily by downloading one of the CDN-hosted versions that the jQuery Mobile project provides.
  - URL: http://jquerymobile.com/download/
- For those who prefer to host the files themselves, a zip file is also available.
  - URL: <a href="http://code.jquery.com/mobile/1.1.1/jquery.mobile-1.1.1.zip">http://code.jquery.com/mobile/1.1.1/jquery.mobile-1.1.1.zip</a>



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# Including jQueryMobile libraries

Include jQuery Mobile Stylesheet and Javascript files in the webpage in the header section:

```
</r>

<p
```

#### Example-1

#### Simple webpage using HTML4's div element

```
<!DOCTYPE html>
<html>
 <head> <title>First jQuery Mobile Demo</title>
  <!-- The three files that jQuery Mobile needs to work -->
 </head>
<body>
<div class="section" id="page1">
<div class="header"><h1>Welcome to jQuery Mobile</h1></div>
<div class="content">
   First page!
</div>
<div class="footer"><h1>Hello</h1></div>
</div>
</body>
</html>
```



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#### Example-2

Simple webpage using HTML5 elements

```
Declares this page as a
<!DOCTYPE html>
                                                    HTML5 page
<html>
 <head> <title>First jQuery Mobile Demo</title>
  <!-- The three files that jQuery Mobile needs to work -->
 </head>
<body>
 <section id="page1">
  <header><h1>Welcome to jQuery Mobile</h1></header>
  <div class="content">
    First page!
   </div>
 <footer><h1>HelloE</h1></footer>
</section> </body>
</html>
```



#### Points to note

- For jQuery Mobile to process the page and the standard layout, few things to bear in mind:
  - All jQuery Mobile pages must begin with an HTML5 doctype, so we can get the best out of the framework. <!DOCTYPE html>
  - Tags such as <html>, <head>, <title>, and <body> still do what they do, and must be included in the code. In fact, any valid HTML markup can be used.
  - In the <head>, references to the jQuery Mobile stylesheet, jQuery, and jQuery Mobile are required.



#### HTML5 data-\* attributes

- jQuery Mobile designates pages using the data-\* attribute
- When webpage is initialized, jQuery Mobile selects elements based on their data- attributes, enhances them by inserting extra markup, adds new CSS classes and applies event handlers.
- Thus, a developer has to simply write basic semantic markup and allow jQuery Mobile to transform this simple markup into complex UI elements.
- Eg of data- attribute : data-role
- Valid data-role values are:
  - page
  - header
  - content
  - footer



# Example-3

Webpage using HTML5 data-\* attributes

```
<!DOCTYPE html>
<html>
 <head> <title>First jQuery Mobile Demo</title>
  <!-- The three files that jQuery Mobile needs to work -->
 </head>
<body>
<section id="page1" data-role="page">
 <header data-role="header"><h1>jQuery Mobile</h1></header>
 <div class="content" data-role="content">
  First page!
 </div>
 <footer data-role="footer">
     <h1>Hello</h1></footer>
</section>
</body>
</html>
```

## Summary

- In this lesson, you learnt:
- What is jQuery Mobile?
- Overview of features
- Building your first jQuery Mobile app



