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## jQuery Course Content

### **The Background**

- The mobile space today
- Advantages
- Challenges
- Native vs. web, is really a question?
- What is JQM?
- What is not jQM?
- What is a webapp?
- Why jQM?
- Features
- Compatibility
- Requirements

### **HTML5 basics**

- HTML5 in a small nutshell
- Why HTML5?
- What do we need to know about HTML5 for jQM
- Basic template
- Testing HTML5 documents
- Emulators, Simulators & more
- Viewports on mobile browsers
- Custom data-\* attributes

### **The framework**

- Architecture
- Self hosted vs. CDNs
- Main template
- CDNs available
- Main template
- Support on IDEs
- Roles
- Theming

### **The page**

- Headers and footers basics
- Mandatory items in a page
- Working with HTML in the content

- Navigation
- Internal page navigation
- External page navigation
- Understanding AJAX on mobile browsers
- Absolute external links
- Mobile Special links
- Transitions
- Dialogs
- Prefetching
- Integration with the Phone

## **UI Components**

- Customizing toolbars
- Positioning toolbars
- Navigation Bars
- Persistent footers and navigation
- Collapsible content
- Acoordions
- Working with columns

## **Buttons**

- Creating buttons
- Inline buttons
- Grouped buttons
- Icons
- Custom icons

## **Lists**

- Creating lists
- Full-page vs inset-lists
- Visual separators
- Nested lists
- Interactive rows
- Split button rows
- Row icons
- Thumbnails
- Count bubbles
- Aside content
- Title and Description
- Filtering data

## Forms

- AJAX vs. non-AJAX forms
- Automatic form behaviour
- Labeling
- Field containers
- Text fields
- Slider
- Slider switch
- Select menus
- UI Select menus
- Radio Buttons
- Checkboxes
- File Upload
- Validation using HTML5

## The framework and JavaScript

- Using jQuery inside jQuery Mobile
- \$.mobile element
- The mobileinit event
- Configuring defaults
- Touch events
- Orientation events
- Scroll events
- Page events
- Virtual mouse events
- Managing navigation through JavaScript

## Dynamic data with jQuery Mobile

- HTML5 vs AJAX
- Bringing JSON data to jQuery Mobile
- Updating form controls
- Updating lists
- Implementing Infinite list pattern

## Extending the framework

- Using plugins
- The top 5 plugins for jQuery Mobile
- Creating our own plugin
- Plugin architecture
- Understanding CSS architecture
- Define our own CSS patch
- Changing CSS behavior

## **Managing data with HTML5**

- Using Web Storage and WebSQL
- Using geolocation

## **Packaging for installation and stores**

- The offline manifest
- Full-screen webapps for iOS
- What is a hybrid
- PhoneGap vs other alternatives
- Packaging a sample application