jQuery Mobile

Lesson 07: jQuery Mobile Events



Lesson Objectives

In this lesson, you will learn:

- Touch events
- Orientation events
- Scroll events
- Page initialization and load events
- Page change and transition events





Touch Events

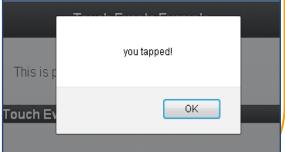
- jQuery Mobile provides a set of events geared around mobile applications.
- They can be classified into:
 - Touch events
 - Scroll events
 - Page-related events
- Touch events are triggered when user touches any part of the page. Fall into several categories:
 - Тар
 - taphold
 - swipe
 - swipeleft
 - swiperight



Touch Events: Example

```
<head>
<script>
     $("#firstpage").live('pageinit', function (evt) {
       $("#firstpage").bind("tap", function (e) { alert("you tapped!"); });
       $("#firstpage").bind("swiperight", function (e) { alert("you swiped right!"); });
       $("#firstpage").bind("swipeleft", function (e) { alert("you swiped left!"); });
    });
  </script>
</head>
<body>
   <section id="firstpage" data-role="page">
       <header data-role="header">
          <h1>Touch Events Example</h1>
       </header>
       <div data-role="content">
          This is page 1
       </div>
       <footer data-role="footer">Touch Events Example
       </footer>
   </section> </body> </html>
```







Orientation events

- Orientationchange: Triggers when a device orientation changes (by turning it vertically or horizontally).
 - When bound to this event, the callback function has one argument, the event object.
 - The event object contains an orientation property equal to either "portrait" or "landscape".

```
$(window).bind('orientationchange', _orientationHandler);

function _orientationHandler(Event event) {
    if(event.orientation){
        if(event.orientation == 'portrait'){
            //do something
        }
        else if(event.orientation == 'landscape') {
            //do something
        }
}
```



Scroll events

- Scroll events are triggered when any type of scrolling is done.
- Categorized into:
 - Scroll: a native jQuery event
 - Scrollstart : Triggers when a scroll begins
 - Scrollstop: Triggers when a scroll finishes.

```
<script>
    $("#firstpage").live('pageinit', function (evt) {
    //scrollstart fires when the user starts to scroll the contents in the view.
    //scrollstop fires when the scrolling stops
    $(document).bind("scrollstop", function (e) {
        alert("scrolling stopped");
     });
    });
    </script>
```



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Page Initialization events

- When jQuery Mobile initializes a page (an element that has data-role="page"), it triggers the pagebeforecreate event (before a page is initialized) and pagecreate (after a page is initialized).
 - Since page initialization only happens once, these events only fire once for a given page
 - These events can be bound to the page element itself

```
<script>
    $("#firstpage").live('pageinit', function (evt) {
        alert("pageinit event fired");
    });
    $("#firstpage").live('pagebeforecreate', function (evt) {
        alert("pagebeforecreate fired");
    });
    $("#firstpage").live('pagecreate', function (evt) {
        alert("pagecreate fired");
    });
    </script>
```



7.4: Page initialization and load events

Page load events

- Whenever an external page is loaded into the application DOM, 2 events are fired (in the sequence given):
 - pagebeforeload: Triggered before any load request is made.
 - Callbacks bound to this event can call preventDefault() on the event to indicate that they are handling the load request.
 - pageload: Triggered after the page is successfully loaded and inserted into the DOM.
 - A pageloadfailed is triggered if the page load request failed.

```
$(document).bind('pagebeforeload', function (evt,data) {
       alert("page before load");
     });
$(document).bind('pageload', function (evt,data) {
       alert("page loaded:\nURL: " + data.url);
     });
$(document).bind('pageloadfailed', function (evt,data) { alert("page not found"); });
$(document).bind('pageremove', function (evt,data) { alert("page removed");
```



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7.5 : Page change and transition events

Page Change events

- jQuery Mobile allows navigating between pages in the application through a call to \$.mobile.changePage().
- changePage() fires 2 events:
 - pagebeforechange: is triggered before any page loading or transition
 - pagechange: is triggered after the changePage() request has finished loading the page into the DOM and all page transition animations have completed.
 - A pagechangefailed event is triggered when the changePage() request fails to load the page.



Page Transition events

- Page transitions are used to animate the change from the current active page to a new page.
 - Events are triggered before and after these transitions.
 - This allows observers to be notified whenever pages are shown or hidden.
- The events triggered are:
 - pagebeforeshow: is triggered on the "toPage" we are transitioning to, before the
 actual transition animation is kicked off.
 - pagebeforehide: is triggered on the "fromPage" we are transitioning away from,
 before the actual transition animation is kicked off.
 - pageshow: is triggered on the "toPage" after the transition animation has completed.
 - pagehide: is triggered on the "fromPage" after the transition animation has completed.



Summary

In this lesson, you learnt:

- Touch events
- Orientation events
- Scroll events
- Page initialization and load events
- Page change and transition events



