

jQueryMobile

jQuery Mobile is a user interface framework, built on jQuery Core and used for developing responsive websites or applications that are accessible on mobile, tablet, and desktop devices. It uses features of both jQuery and jQueryUI to provide API features for mobile web applications.

<http://jquerymobile.com/>

jQueryMobile: responsive website mobile-apps

A Touch-Optimised Web Framework

jQuery Mobile is a HTML5-based user interface system designed to make responsive web sites and apps that are accessible on all smartphone, tablet and desktop devices.

UserInterfaces :

1. Desktop Normal , higher
2. Tablet
3. Mobile

using jQueryMobile you can develop web apps and mobile apps

Seriously cross-platform with HTML5.

jQuery Mobile framework takes the "write less, do more" mantra to the next level: Instead of writing unique applications for each mobile device or OS, the jQuery mobile framework allows you to design a single highly-branded responsive web site or application that will work on all popular smartphone, tablet, and desktop platforms.

Applications :

1. web Application Browser m.facebook.com
2. mobile application install WhatsUp,facebook Cordova Framework (iOS,Android,windowmobile)

Hybrid Mobile Apps with HTML,CSS,JQuery,JQueryMobile

Mobile Appication development :

1. Native Applications

1. iOS SDK -> MAC ,xcode ,swiftProgramming Objective-C 2007-2014 2014-2015
2. AndroidSDK -> Windows/Mac -> androidStudio -> xml,javaprogramming
3. Windows Mobile SDK -> visualstudio , CSharp

2. Hybrid Applications

HTML,CSS, JS (webcode) -> Cordova -> iOS,Android,Windows

Android SDK AndroidStudio Install
iOS SDK xcode Install

Cordova Install

<http://cordova.apache.org/>

1. Installing Cordova

Cordova command-line runs on Node.js and is available on NPM. Follow platform specific guides to install additional platform dependencies. Open a command prompt or Terminal, and type

Note : install node js before <https://nodejs.org/en/>

npm install -g cordova This is for windows
sudo npm install -g cordova This is for windows

2. Create a project

Create a blank Cordova project using the command-line tool. Navigate to the directory where you wish to create your project and type cordova create <path>.

For a complete set of options, type cordova help create.
cordova create HelloCordova

3. Add a platform

After creating a Cordova project, navigate to the project directory. From the project directory, you need to add a platform for which you want to build your app.

To add a platform, type cordova platform add <platform name>.
For a complete list of platforms you can add, run cordova platform.

Cmd : cordova platform add ios
cordova platform add android
cordova platform add windows

4. Build your app

From the command line, run cordova build <platform name>.

Ex : cordova build
cordova build android
cordova build ios
cordova build windows

```

<link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.5/
jquery.mobile-1.4.5.min.css">
<script src="http://code.jquery.com/jquery-1.11.1.min.js"></script>
<script src="http://code.jquery.com/mobile/1.4.5/
jquery.mobile-1.4.5.min.js"></script>

```

Page :

```

<div data-role="page">

<div data-role="header" data-position="fixed">This is header</div>
<div data-role="main" class="ui-content">This is content</div>
<div data-role="footer" data-position="fixed" >This is footer</div>

</div>

```

Buttons :

```

<input type="button" value="input" class="ui-btn" >

<button class="ui-btn">Button</button>

<a href="#" data-role="button" data-theme="b">Anchor</a>
<button class="ui-btn ui-shadow">Button with shadow</button>
<button class="ui-btn ui-corner-all">Button with rounded corners</
button>
<button class="ui-btn ui-icon-refresh ui-btn-icon-left">refresh</button>
<a href="#" class="ui-btn ui-icon-delete ui-btn-icon-notext ui-corner-
all">First</a>

```

Checkbox:

```

<label>
<input type="checkbox">Check me
</label>

<input id="checkbox1" data-mini="true" type="checkbox">
<label for="checkbox1">I agree</label>

<fieldset data-role="controlgroup">

<legend>Hobbies:</legend>

<input id="checkbox1"
type="checkbox">
<label for="checkbox1">Cricket</label>

<input id="checkbox2"

```

```

type="checkbox">
                                <label for="checkbox2">Tennis</label>
                                <input id="checkbox3"
type="checkbox">
                                <label for="checkbox3">Shuttle</label>
                                </fieldset>
<fieldset data-role="controlgroup" data-type="horizontal">
                                <legend>Hobbies:</legend>
                                <input id="checkbox1"
type="checkbox">
                                <label for="checkbox1">Cricket</label>
                                <input id="checkbox2"
type="checkbox">
                                <label for="checkbox2">Tennis</label>
                                <input id="checkbox3"
type="checkbox">
                                <label for="checkbox3">Shuttle</label>
                                </fieldset>
<fieldset data-role="controlgroup" data-iconpos="right">
                                <legend>Icon right:</legend>
                                <input id="checkbox1"
type="checkbox">
                                <label for="checkbox1">One</label>
                                <input id="checkbox2"
type="checkbox">
                                <label for="checkbox2">Two</label>
                                <input id="checkbox3"
type="checkbox">
                                <label for="checkbox3">Three</label>
                                </fieldset>

```

FlipSwitch:

```

                                <input data-role="flipswitch" name="checkbox1" id="checkbox1"
type="checkbox">

```

Collapsible:

```
<div data-role="collapsible">
```

```
    <h4>Hyderabad</h4>
```

```
    <p>Hyderabad is a nice city</p>
```

```
    <p>Hyderabad is a nice city</p>
```

```
    <p>Hyderabad is a nice city</p>
```

```
</div>
```

```
<div data-role="collapsible" data-collapsed-icon="carat-d" data-expanded-  
icon="carat-u">
```

```
    <h6>Countries</h6>
```

```
    <ul data-role="listview" data-inset="false">
```

```
        <li>China</li>
```

```
        <li>India</li>
```

```
        <li>United States</li>
```

```
    </ul>
```

```
</div>
```

NavBar:

```
<div data-role="navbar">
```

```
    <ul>
```

```
        <li><a href="#aboutus">About US</
```

```
a></li>
```

```
        <li><a href="#contact">Contact US</
```

```
a></li>
```

```
        <li><a href="#gallery">Gallery</a></
```

```
li>
```

```
    </ul>
```

```
</div>
```

Tabs :

```
<div data-role="tabs" id="tabs">
```

```
    <div data-role="navbar">
```

```
        <ul>
```

```
            <li><a href="#one">India</a></li>
```

```
            <li><a href="#two">UK</a></li>
```

```
            <li><a href="#three">US</a></li>
```

```
        </ul>
```

```
    </div>
```

```
    <div id="one" class="ui-body-d ui-content">
```

```
        <p>India, officially the Republic of India,  
is a country in South Asia. It is the seventh-largest country by area, the  
second-most populous country with over 1.2 billion people, and the most  
populous democracy in the world.</p>
```

```
    </div>
```

```
<div id="two">
    <p>The United Kingdom of Great Britain
and Northern Ireland, commonly known as the United Kingdom (UK) and
Britain, is a sovereign state located off the north-western coast of
continental Europe. The country includes the island of Great Britain, the
north-eastern part of the island of Ireland, and many smaller islands.</p>
</div>
```

```
<div id="three">
    <p>The United States of America (USA),
commonly called the United States (US or U.S.) and America, is a federal
constitutional republic consisting of fifty states and a federal district. The
country is situated mostly in central North America, where its forty-eight
contiguous states and Washington, D.C., the capital district, lie between the
Pacific and Atlantic Oceans, bordered by Canada to the north and Mexico to
the south.</p>
</div>
</div>
```

Filterable List :

```
<div role="main" class="ui-content">

    <form class="ui-filterable">
        <input id="TextBox1" data-type="search">
    </form>

    <ul data-role="listview" data-filter="true" data-
input="#TextBox1">
        <li>Acura</li>
        <li>Audi</li>
        <li>BMW</li>
        <li>Cadillac</li>
        <li>Ferrari</li>
    </ul>
</div>
```

Filterable Table :

```
<div role="main" class="ui-content">
    <form>
        <input id="TextBox1" data-type="search">
    </form>
    <table data-role="table" data-filter="true" data-
input="#TextBox1" class="ui-responsive">
        <thead>
            <tr>
                <th data-priority="1">Rank</th>
                <th data-priority="persist">Movie
```

```

Title</th>
                                <th data-priority="2">Year</th>
                                <th data-priority="3"><abbr
title="Rotten Tomato Rating">Rating</abbr></th>
                                <th data-priority="4">Reviews</
th>

                                </tr>
                                </thead>
                                <tbody>
                                <tr>
                                    <th>1</th>
                                    <td><a href="http://
en.wikipedia.org/wiki/Citizen_Kane" data-rel="external">Citizen Kane</
a></td>
                                    <td>1941</td>
                                    <td>100%</td>
                                    <td>74</td>
                                </tr>
                                <tr>
                                    <th>2</th>
                                    <td><a href="http://
en.wikipedia.org/wiki/Casablanca_(film)" data-rel="external">Casablanca</
a></td>
                                    <td>1942</td>
                                    <td>97%</td>
                                    <td>64</td>
                                </tr>
                                <tr>
                                    <th>3</th>
                                    <td><a href="http://
en.wikipedia.org/wiki/The_Godfather" data-rel="external">The Godfather</
a></td>
                                    <td>1972</td>
                                    <td>97%</td>
                                    <td>87</td>
                                </tr>
                                </tbody>
                                </table>
                                </div>

```

List View:

```

<body>
    <h2>Listview Filter Example</h2>
    <ul data-role = "listview" data-inset = "true" data-filter = "true"
    data-filter-placeholder = "Search">
        <li><a href = "#">Chennai</a></li>
        <li><a href = "#">Bangalore</a></li>
        <li><a href = "#">Pune</a></li>
        <li><a href = "#">Mumbai</a></li>
    </ul>

```

```

        <li><a href = "#">Delhi</a></li>
        <li><a href = "#">Dehradhun</a></li>
        <li><a href = "#">Punjab</a></li>
    </ul>
</body>

```

jQuery Mobile Collapsibles

```

<div data-role="main" class="ui-content">
    <div data-role="collapsible">
        <h1>Click me - I'm collapsible!</h1>
        <p>I'm the expanded content.</p>
    </div>
</div>

```

jQuery Mobile - Navigation

```

<!DOCTYPE html>
<html>
    <head>
        <title>jQuery Mobile - Navigation</title>

        <meta name="viewport" content="width=device-width, initial-
scale=1">

        <link rel="stylesheet" href="jquery.mobile-1.4.5.css"
type="text/css">

        <script src="jquery-2.1.4.js" type="text/javascript">
        </script>

        <script src="jquery.mobile-1.4.5.js" type="text/javascript">
        </script>

    </head>
    <body>

        <!-- First page starts -->
        <div data-role="page" id="Page1">

            <div data-role="header">
                <h1>Page1</h1>
            </div>

            <div role="main" class="ui-content">

                <p>Content here</p>
                <p>Click here to go to <a href="#Page2" data-
transition="slide">Page2</a></p>

```



```

        </div>

        <div data-role="footer">
            <h4>Page Footer</h4>
        </div>

    </div>
    <!-- First page ends -->

    <!-- Second page starts -->
    <div data-role="page" id="Page2">

        <div data-role="header">
            <h1>Page2</h1>
        </div>

        <div role="main" class="ui-content">

            <p>Some content here</p>

            <p>Click here to go to <a href="#Page1" data-
transition="slide">Page1</a></p>

        </div>

        <div data-role="footer">
            <h4>Page Footer</h4>
        </div>

    </div>
    <!-- Second page ends -->

</body>
</html>

<!--
transitions:

    fade
    pop
    flip
    turn
    flow
    slidefade
    slide
    slide up
    slidedown
    none
-->

```

jQuery Mobile Events

- Touch events - triggers when a user touches the screen (tap and swipe)
- Scroll events - triggers when a user scrolls up and down
- Orientation events - triggers when the device rotates vertically or horizontally
- Page events - triggers when a page is shown, hidden, created, loaded and/or unloaded

Initializing jQuery Mobile Events

In jQuery, you have learned to use the document ready event to prevent any jQuery code from running before the document is finished loading (is ready):

jQuery document ready event

```
<script>  
$(document).ready(function(){  
  
    // jQuery methods go here...
```

```
});  
</script>
```

pagecreate:

```
$(document).on("pagecreate", "#pageone", function(){  
  
    // jQuery events go here...  
  
});
```

jQuery Mobile Tap

The tap event is triggered when the user taps on an element. The following example says: When a tap event fires on a <p> element; hide the current <p> element:

Example

```
$("#p").on("tap", function(){  
    $(this).hide();  
});
```

jQuery Mobile Tap hold

The taphold event is triggered when the user taps on an element and hold for one second:

Example

```
$("#p").on("taphold", function(){  
    $(this).hide();  
});
```

jQuery Mobile Swipe

The swipe event is triggered when the user swipes over an element horizontally by more than 30px:

Example

```
$("#p").on("swipe",function(){  
    $("#span").text("Swipe detected!");  
});
```

jQuery Mobile Swipeleft

The swipeleft event is triggered when the user swipes over an element in the left direction by more than 30px:

Example

```
$("#p").on("swipeleft",function(){  
    alert("You swiped left!");  
});
```

jQuery Mobile Swiperight

The swiperight event is triggered when the user drags over an element in the right direction by more than 30px:

Example

```
$("#p").on("swiperight",function(){  
    alert("You swiped right!");  
});
```

jQuery Mobile Scrollstart

The scrollstart event is triggered when the user starts to scroll the page:

Example

```
$(document).on("scrollstart",function(){  
    alert("Started scrolling!");  
});
```

jQuery Mobile Scrollstop

The scrollstop event is triggered when the user stops to scroll the page:

Example

```
$(document).on("scrollstop",function(){  
    alert("Stopped scrolling!");  
});
```

jQuery Mobile orientationchange

The orientationchange event is triggered when the user rotates the mobile device vertically or horizontally.

```
$(window).on("orientationchange",function(){
```

```

if(window.orientation == 0) // Portrait
{
    $("p").css({"background-color":"yellow","font-size":"300%"});
}
else // Landscape
{
    $("p").css({"background-color":"pink","font-size":"200%"});
}
});

```

jQuery Mobile Page Events

Events for handling pages in jQuery Mobile are divided into four categories:

- Page Initialization - Before page creation, and when the page has been created
- Page Load/Unload - When an external page is loading, unloading or encounters a failure
- Page Transition - Before and after page transitions
- Page Change - When pages are changed to or from, or encounters a failure

jQuery Mobile Initialization Events

When a typical page in jQuery Mobile is initialized, it goes through two stages:

- Before page creation
- Page creation

pagebeforecreate:

Triggered when the page is about to be initialized, and before jQuery Mobile has started enhancing the page

pagecreate

Triggered when the page has been created, but before enhancement is complete

```

$(document).on("pagebeforecreate",function(event){
    alert("pagebeforecreate event fired!");
});
$(document).on("pagecreate",function(event){
    alert("pagecreate event fired!");
});

```

jQuery Mobile Load Events

Page load events are for external pages.

Whenever an external page is loaded into the DOM, 2 events fire. The first

is `pagecontainerbeforeload`, and the second will either be `pagecontainerload` (success) or `pagecontainerloadfailed` (fail).

These events are explained in the table below:

`pagecontainerbeforeload`

Triggered before any page load request is made

`pagecontainerload`

Triggered after the page has been successfully loaded and inserted into the DOM

`pagecontainerloadfailed`

Triggered if the page load request fails. By default, it will show the "Error Loading Page" message

Example :

```
$(document).on("pagecontainerload",function(event,data){
    alert("pageload event fired!\nURL: " + data.url);
});
$(document).on("pagecontainerloadfailed",function(event,data){
    alert("Sorry, requested page does not exist.");
});
```