Mobile Hybrid Applications



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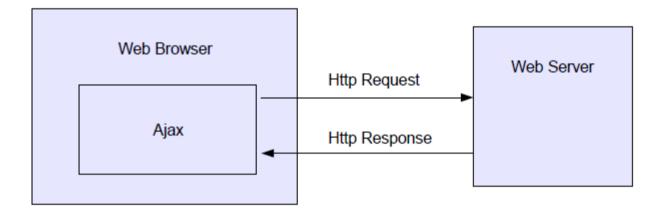
The Power of Java Script

Powerful Language

 JavaScript is an object oriented programming language with functional programming capabilities.

Ajax

 We can develop JavaScript code that perform the HTTP interaction with the server side.



DOM

 The JavaScript programming language allows us to interact with the web page DOM and even change it.

JavaScript Libraries

- The web browsers differs in their support for executing JavaScript.
- The result was the emergence of various JavaScript libraries that ease our development process and provide a solution for the web browsers differentiation.

The jQuery Library

 This library allows us to develop cross platform user interface compatible with most available web browsers.



The jQuery Library



The jQuery Mobile Library

- The jQueryMobile is a JavaScript library that enables the creation of unified GUI components across most mobile telephones web browsers, includin iPhone, android, Black Berry and others.
- The jQueryMobile library is an open source project. It uses the jQuery library.



The MooTools Library

 This library is known as the JavaScript programming language extension.

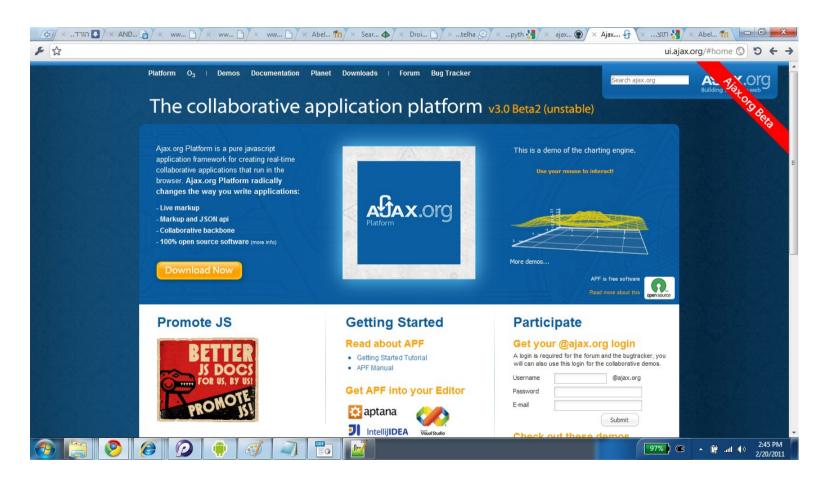
The MooTools Library

```
<script type="text/javascript" src="mootools-core-1.3-full-</pre>
compat.js"></script>
<script type="text/javascript">
var Rectangle = new Class({
// properties
width: 0,
height: 0,
// methods
initialize: function(wVal,hVal)
    this.width = wVal;
    this.height = hVal;
},
details: function()
    alert("width=" + this.width + " height=" + this.height);
},
});
var rec = new Rectangle (5,4);
rec.details();
</script>
```

The ajax.org Library

• This library is known for its various capabilities and especially the one that allows us to develop 3D rich charts models.

The ajax.org Library

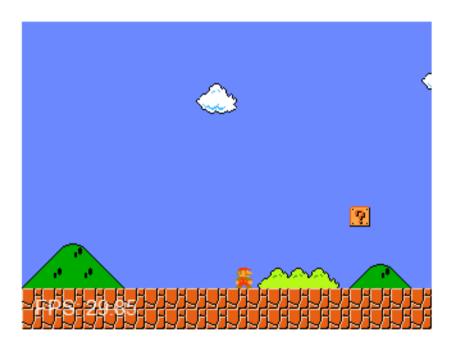


http://ui.ajax.org/#home

Coco2SD

- The Cocos2d-javascript is a 2D game/graphics engine based on cocos2d-iphone designed to run in a web browser.
- Cocos2D-javascript uses HTML 5 for creating 2D graphics without the need for plug-ins such as Adobe Flash.

Coco2SD



http://cocos2d-javascript.org/about