

CEng 491 SENIOR PROJECT

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Market Research Report

1 INTRODUCTION

We did some internet search to do market research for AJAX IDEs and frameworks. We divided our research into two market: Local Market and Foreign Market. We realize that local market is very small because we could find only one company that has a AJAX product. But the foreing market is very big and there are lots of companies and some of are the biggest software companies in the world. Majority of the product licences are commercial but there are some open source projects and products.

We create a table to show information about the products. There are nine useful information(Name, Company, Version, URL, Licence, Pricing, Support-Type, Base Concepts, Browser Support) for each AJAX IDEs and frameworks.

2 AJAX Frameworks

Comparison of AJAX frameworks

Local Market:

Name	More Motion Advance Suite 3
Company	Mor Yazılım
Version	3.2
URL	http://www.moremotion.com/advsuite/index.html
Licence	Commercial
Pricing	\$2.999
Support - Type	- Custom Ide
Base Concepts	The provided elements: -RefreshFields (refresh DOM elements such as input, select) -RefreshPanel (Refresh the content of a whole panel element) -SuggestBox (To suggest refined options as the user types in a editbox)
Browser Support	IE - Mozilla

Foreign Market:

Name	Ajax Toolkit Framework
Company	Eclipse
Version	0.1-20060912
URL	http://www.eclipse.org/atf/
Licence	Open Source
Pricing	-
Support - Type	JavaScript - Eclipse Plugin
Base Concepts	Open Source Eclipse Plugin. Really more of a toolkit for building other AJAX IDE plugins. Starts by combining Dojo and Zimbra Toolkit. Very early in it's development. From the project docs: ATF enables support of DOM browsing and JavaScript debugging by using Mozilla XULrunner to embed the Mozilla browser component (Gecko) in the Eclipse framework.
Browser Support	Mozilla

Name	Tibco GI
Company	TIBCO Software Inc.
Version	3.1
URL	http://www.tibco.com/software/ria/default.jsp
Licence	Developer, Public, Private (Commercial)
Pricing	Free(Developer, Public), \$499 (Private-5 concurrent end users)
Support - Type	Javascript - Browser Based
Base Concepts	Free for development and publicly available web sites. the IDE is implemented in itself and runs in IE. Is WYSIWIG and pretty slick.
Browser Support	IE

Name	GWT(Google Web Toolkit)
Company	Google
Version	1.1.10 Beta
URL	http://code.google.com/webtoolkit/
Licence	Free
Pricing	-
Support - Type	Java - Command line
Base Concepts	Free to use for personal and commercial purposes. As for IDE integration, there's mostly just an Eclipse project generator and a "hosted mode" runtime. Being able to debug Javascript as Java in an IDE .
Browser Support	Mozilla

Name	Morfik WebOS AppsBuilder
Company	Morfik
Version	
URL	http://www.morfik.com/
Licence	Commercial
Pricing	
Support - Type	Pascal, Java, C#, VB - Custom IDE
Base Concepts	Freestanding IDE. Support several source languages including Pascal, Java, C# and VB. Drag-and-drop, WYSIWYG design. The behavior of the GUI designer is a little awkward. For example, right click doesn't give you the ability to cut and paste, etc., necessitating a roundtrip to the window's menu. Doesn't look like they have a whole lot of widgets in the evaluation version. A bunch of their stuff thrown in, like DB integration, PDF reporting, etc.
Browser Support	Multi Browser Support

Name	ATLAS
Company	Microsoft
Version	V1.0 beta - July 2006
URL	atlas.asp.net
Licence	Technical preview
Pricing	-
Support	ASP 2.0
Base Concepts	Multiple concepts: - Direct AJAX Programming. - Declare / Design AJAX - Add control that provide AJAX features (PanelUpdater)
Browser Support	IE, Mozilla

Name	Oracle JDeveloper
Company	ORACLE
Version	
URL	www.oracle.com/technology/pub/articles/nimphius-ajax.html
Licence	Commercial
Pricing	

Support - Type	Java - Custom IDE
Base Concepts	
Browser Support	

Name	MyEclipse
Company	MyEclipse
Version	
URL	http://www.myeclipseide.com/
Licence	Commercial
Pricing	
Support - Type	J2EE - Eclipse Plugin
Base Concepts	With MyEclipse 4.x, the popular eclipse extension added support for JavaScript editing and debugging. With version 5.0, new features are making their way into MyEclipse, such as runtime DOM inspection, HTTP header monitoring, and cache control.
Browser Support	

Name	NetBeans GWT
Company	Sun Microsystems
Version	
URL	http://blogs.sun.com/roumen/entry/getting_started_with_gwt_in
Licence	Open Source
Pricing	-
Support - Type	Java - Project Template
Base Concepts	
Browser Support	Mozilla

Name	Backbase Java
Company	Backbase
Version	
URL	www.backbase.com/#home/products/editions/java_edition.xml[0]
Licence	Commercial
Pricing	
Support - Type	Java/JSP - Eclipse Plugin
Base Concepts	Plugin based on WTP. Includes new UI component creation wizard.
Browser Support	

Name	Backbase .NET
Company	Backbase
Version	
URL	http://www.backbase.com/#home/home.xml[0]
Licence	Commercial
Pricing	
Support - Type	C#, VB - Visual Studio Plugin
Base Concepts	Under development
Browser Support	

Name	Backbase Dreamweaver
Company	Backbase
Version	
URL	http://www.backbase.com/#home/benefits/for_developers.xml [0]
Licence	Commercial
Pricing	
Support - Type	- Dreamweaver Plugin
Base Concepts	
Browser Support	

Name	r.a.d. ajax
Company	Telerik
Version	V1.03
URL	www.telerik.com
Licence	Commercial
Pricing	399\$
Support - Type	ASP1.x/2.0 -
Base Concepts	Add RadAjaxManager Control to page; select & connect AJAX enabled controls via configuration Dialog or by changing .aspx file directly.
Browser Support	IE, Mozilla, Opera

Name	MX AJAX Toolbox
Company	Adobe
Version	
URL	http://www.interaktonline.com/Products/Dreamweaver-Extensions/MXAJAXToolbox/EOL/
Licence	Commercial
Pricing	
Support - Type	PHP - Dreamweaver Plugin
Base Concepts	Supports PHP_MySQL and PHP_ADODB on the server side.
Browser Support	

Name	Aptana
Company	Aptana
Version	
URL	http://www.aptana.com/
Licence	Open Source
Pricing	-
Support - Type	Javascript/HTML/CSS - Eclipse Plugin & Custom IDE
Base Concepts	Works with AFLAX, Dojo, MochiKit, Prototype, Rico, sript.aculo.us, Yahoo UI
Browser Support	

Name	MagicAJAX.NET
Company	Open Source
Version	V0.3.0
URL	www.magicajax.net
Licence	Free / Open Source

Pricing	-
Support - Type	ASP1.1/2.0 -
Base Concepts	Use a "MagicPanel" for AJAX updates. Automatically render Panel contents.
Browser Support	I E, Firefox, Opera

Name	ComfortASP.NET
Company	Daniel Zeiss
Version	V0.65 (beta)
URL	www.comfortasp.de
Licence	Free
Pricing	-
Support - Type	ASP1.1/2.0 -
Base Concepts	Automatically create difference between postbacks and use AJAX for hidden Postback. Updates whole Page or Panels on Client.
Browser Support	IE, Mozilla, Opera

Name	ZumiPage
Company	Amir Leshem
Version	V2.10
URL	www.zumipage.com
Licence	Commercial
Pricing	\$59 (single web site) - \$139 (web server)
Support - Type	ASP1.1/2.0 -
Base Concepts	Register Controls for AJAX based updates. Automatically render the updated Controls on Client
Browser Support	IE, Mozilla, Opera

Name	OutPost
Company	Troels Wittrup Jensen
Version	V1.4
URL	csharpedge.blogspot.com
Licence	Free (with source code)
Pricing	-
Support - Type	ASP1.1/2.0 -
Base Concepts	Get HTML of changed controls and transport HTML changes automatically to client in hidden postback. Update whole Page on client.
Browser Support	IE, Mozilla, Opera

Name	FastPage
Company	Igor Golodnitsky
Version	V2.0
URL	fastpage.more.at
Licence	Commercial
Pricing	15\$ (one Domain) - 50\$ (Server)
Support - Type	ASP1.1/2.0 -
Base Concepts	Automatically create difference between postbacks und use

	IFRAME for hidden Postback. Update whole Page on client.
Browser Support	IE, Mozilla, Opera

Name	Anthem Panel
Company	Open Source
Version	V1.3.2
URL	http://anthem-dot-net.sourceforge.net/
Licence	Free / Open Source
Pricing	-
Support - Type	ASP1.1/2.0 -
Base Concepts	Use a "Anthem Panel" for AJAX updates. Automatically render Panel contents.
Browser Support	IE, Mozilla, Opera

Name	Echo Studio 2
Company	
Version	
URL	http://www.nextapp.com/platform/echo2/echostudio/
Licence	Commercial
Pricing	
Support - Type	Java - Eclipse Plugin
Base Concepts	Framework is open source. Eclipse plugin that allows you to build component trees, preview the UI, debug the application, etc. Not WYSIWYG, i.e. no drag and drop page layout.
Browser Support	

3 CONCLUSION

Big enterprises like Microsoft, Sun, Micosystems, Adobe, Oracle and Google are currently developing and releasing plugins for Ajax support to their IDEs. Also, there are many open source projects going on for either standalone IDEs like Morfik, Aptana or plugins for open source IDEs like Eclipse.

Tibco GI and ATLAS are very good examples from the ones we examined. Tibco GI is a standalone IDE and has very nice user interface capabilities like drag-and-drop (Actually it won 2006 AJAX Product of the Year from InfoWorld). One can insert anything with drag-and-drop in Morfik.

Although ATLAS is a plugin for Microsoft's IDE which is commercial and not very good at performance, comes with many pre-defined Ajax actions like password-checker and provides a simple gui to apply these actions to HTML components like text boxes.

The browser support of IDEs we examined actually depends on the support of browsers for JavaScript. If an IDE provides an Ajax action done with a later JavaScript and the browser does not support that version of JavaScript.

- Some frameworks offer a manager control (or something similar) to provide designer and runtime control over specific features.
- Turning AJAX on and off at design time is an important feature to help you finding bugs and AJAX problems. You can easily compare the content update with and without AJAX.
- Automatically transferring only changes of the HTML content between two AJAX responses can save a lot of additional traffic but also produces a significant higher CPU load on your web server for the diff-calculation.

4 REFERENCES

<http://www.daniel-zeiss.de/AJAXComparison/Results.htm>

http://blogs.pathf.com/agileajax/2006/08/ides_with_ajax_.html