METU

Computer Engineering

Ceng 491 Computer Engineering Design I

MARKET RESEARCH REPORT

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1. Aptana

1.1 What is Aptana?

Aptana is a IDE for building dynamic web applications and designed for web developers who are using (X)HTML, CSS and Javascript.

1.2 Main Features of Aptana

Aptana includes the following features:

- Code Assist on JavaScript, HTML, and CSS languages, including your own JavaScript functions.
- Error and warning notification for your code.
- Ability to extend the IDE via JavaScript with new 'Actions' and new 'Views'.
- Cross-platform support
- Support for Aptana UI customization and extensions
- Also it can be install Aptana into Eclipse as a plugin but if you want to use Aptana as an Eclipse plugin all Aptana features should be functional

1.3 About the Aptana Editors

1.3.1 JavaScript Editor

The Aptana JavaScript Editor contains many features to make coding JavaScript easier. These include:

- Code Assist helps you code faster and more accurately.
- Colorization provides visual cues for Syntax.
- The Open Declaration feature which allows you to instantly jump to a function in your code.

1.3.2 HTML Editor

Use Aptana's HTML Editor to code your HTML pages. The Editor includes the following features:

- Colorization provides visual cues.
- Assisted tag completion helps keep your HTML valid.
- A Preview tab allows you to quickly preview the web page currently open in the HTML Editor.

- The HTML Editor also incorporates several JavaScript-focused features of the Aptana JavaScript Editor if you include JavaScript in your web pages.

1.3.3 CSS Editor

Aptana CSS Editor is useful for adding styles for your web sites.

2. Ajax Joyistar Webshop

2.1 What is Ajax Joyistar Webshop?

The JoyiStar WebShop is the Ajax web development. It provides an efficient OOP developing method to construct stable and convenient Rich Web applications based AJAX component.

2.2 Main Features of Joyistar Webshop

- AJAX Development Tool
- Cross Platform
- Standards Based (Standards of HTML, XML etc.)
- User Friendly Interface
- OOP Methodology

3. Zapatec

3.1 What is Zapatec

Zapatec is a an another Ajax web development which also can act like ASP, can host a database and web application environment.

3.2 Main Features of Zapatec

- Cross Browser Compatible
- Standards Based (Standards of HTML,XML etc.)
- CSS Based Themes
- Ability to use different components separately or with each other
- .NET, JSP, ASP, Perl, Python, Ruby Support
- User Friendly Interface

4. Google Web Toolkit

4.1 What is Google Web Toolkit?

Google Web Toolkit (GWT) is a Java software development framework that makes writing AJAX applications

With GWT, you can develop and debug AJAX applications in the Java language using the Java development tools of your choice. When you deploy your application to production, the GWT compiler to translates your Java application to browser-compliant JavaScript and HTML.

4.2 Main Features of GWT

- Dynamic, reusable UI Components
- Simple Remote Procedure Call (RPC)
- Browser History Management
- Full-featured Java Debugging
- Browser Compatible
- JUnit Integration for testing
- Interoperability

4.3 Google Web Toolkit Components

- GWT Java-to-JavaScript Compiler
- GWT Hosted Web Browser
- JRE emulation library
- GWT Web UI class library

5. Dojo Toolkit

5.1 What is Dojo?

The Dojo Toolkit is a set of JavaScript libraries that help you build dynamic web applications.

5.2 Main Features of Dojo

The Dojo Toolkit includes libraries in the following JavaScript development areas:

- JavaScript core libraries to help manipulate the DOM, HTML, and CSS
    - dojo.lang: Utility routines to make JavaScript easier to use.
    - dojo.string: String manipulation routines.
    - dojo.dom: DOM manipulation routines.
    - dojo.style: CSS Style manipulation routines.
    - dojo.html: HTML specific operations
- Data Structures
- Web I/O
- Visual web development, such as animation and drag-and-drop
- Math and cryptography
- Widgets
    - Core widgets
    - Layout widgets
    - SVG widgets

6. Morfik WebOS AppsBuilder

6.1 What is Morfik WebOS AppsBuilder?

The WebOS AppsBuilder is a specialized IDE for building web-based applications. WebOS AppsBuilder brings extreme simplicity to the design of AJAX applications without compromising their functionality. Program make easier to write HTML, XHTML, XML, JavaScript and CSS. It has ready to use components.

6.2 Main Features of Morfik WebOS AppsBuilder

- Visual Designer for creating database stuffs
- Support for high level languages (Basic, C#, Java and Object Pascal)
- Morfik Compiler and JavaScript Synthesis Technology for debugging
- Easy to deal with relational database
- Easy to adjust web server
- User Friendly Interface

7. References

- **www.aptana.com/**
- **http://www.morfik.com/**
- **http://dojotoolkit.org**
- **http://code.google.com/webtoolkit/**
- **www.zapatec.com/**
- **http://219.153.35.21:8080/website_en/**