

**18.10.2006**

## **Meeting Report**

Ahmet Emin Tosun

For this week we have decided to find a similar developments to Ajax and examine them so that what are we really going to do and I found some programs such as Joyistar Webshop and Zapatec and I have examine on them how they are working and this showed me that how our program should do more clearly. I also have research internet sites for usages of ajax technology. In todays most of the people uses Javascript and Flash for their webpages and Ajax comes in the third place but in the future web projects for example; in the next 12 months most of the web designers are saying that they are going to use Ajax for their web projects and I have reached this information from the statistics that have been done by Ektron and Sitepoint and this survey has been done to 5000 web developers over the US. I have also found some videos tutorials that explains how some of the Ajax development working, how to create a new project in Ajax Development and also so many things and this brought me an idea of how our project is going to be more clearly. And also I have discover that there is a lot information on Ajax in JAVA programming language so it will be more easier to create our project in JAVA than other programming language. There is very good example in front of us that build AJAX application in the Java Language which is Google Web Toolkit. There is a lot of AJAX tutorials as well and I have start to read one of the tutorial to learn Ajax. Tutorial that I have start to read is by Matthew Eernisse " Build Your Own AJAX WEB APPLICATIONS".

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Vedat Şengül

For this week, we decided to search for similar programs over internet in order to see what others do. Because these search also shows us the requirements, expecting properties that our product should satisfy. While searching, I found a program called "Zapatec" (<http://www.zapatec.com/website/main/>). This program provides ready to use components such as: Forms, Windows, Menu, Tree, Grid, Calendar, Tabs/Wizard, Time. It works on all web browsers (cross browser compatible). It claims that it is ok to work with .NET, JSP, PHP, ASP, Perl, Python, Ruby or any other server technology. User selects the desired component, and program generates the code for it.

We also planed to read some tutorials about AJAX. While reading tutorials, I realize that main difference between JavaScript and AJAX is that AJAX use JavaScript to communicate with server. Due to its asynchronous property, server traffic is reduced to minimum. We should work on server side to respond to requests.

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Ugur Can Tekin

This week we decided to look at different compilers and try to do some requirement analyses. To do it I downloaded an editor called 1<sup>st</sup> java script editor pro 3.3. Also Ajax developers can use this program as advanced Ajax editor. The first thing that I like the most in the program was its large and usable library. There were about 2000 ready code pieces that you can use in your program. It will be hard to do it but if we have enough time left we can add some ready code pieces in our program, too. Also, in the debugging part there is syntax check part which warns you about the code syntax line by line. Also in the GUI part the program offers users the most usable features as buttons. There are a lot of buttons but they are organized in a very good style that you can find the buttons which you want easily. So, we can get these as examples while we are doing our project.

And also I look at a program called Ajaxium. The most important property of this program is that it don't fails while the Ajax project contains a mixture of HTML and Javascript. Our program must do the same.

And also I started to read the Ajax tutorial.

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Hasan İşler

Last week for our final Project, I do some research about our topic which is Ajax. Because of being our topic is designing an Ajax ide, I collected some information from the internet and examine the examples of Ajax ides on the market nowadays. (Atlas, Webshop, Google web toolkit....) And also I gathered some information about Ajax,

According to my search on the net I understood the advantages of AJAX. They enabled applications to classic ones can be summarized as follows:

- **Better Performance and Efficiency** – the key advantage of AJAX applications is the significantly higher performance, which is a result of the small amount of data transferred from the server. This makes the AJAX technique especially beneficial for data-intensive applications (e.g. displaying rich reports, browsing through large data structures) as well as for low-bandwidth networks.
- **More Responsive Interfaces** – the improved performance leads to much more responsive interfaces, which create the illusion that updates are happening instantly. As a result the AJAX web applications appear to behave much like their desktop counterparts.
- **Reduced or Eliminated "Waiting" Time** – in AJAX-based applications only the relevant page elements are updates, with the rest of the page remaining unchanged. This approach eliminates the white screen (or page flicker on faster connections) and significantly decreases the idle waiting time.

For example the Google Suggest which all of us use everyday is a great example for the the Ajax.



The image shows a screenshot of the Google Suggest interface. At the top is the Google logo with a flask containing green liquid, labeled 'Suggest LABS'. Below the logo are navigation links: 'Web', 'Images', 'Video', 'News', 'Maps', and 'more »'. A search input field contains the text 'vestel'. Below the input field is a dropdown menu with suggestions and their result counts:

Suggestion	Results
vestel	332,000 results
vestel turkey	15,100 results
vestel watches	551 results
vestel goodman	867 results
vestel virgins	106 results
vestel tv	126,000 results
vestel electronics	57,900 results
vestel divx player	25,200 results
vestel manisaspor	5,540 results
vestel uk	52,400 results

Additional elements include a 'Google Search' button, links for 'Advanced Search', 'Preferences', 'Language Tools', and 'Learn more'. At the bottom, there is a link 'Make Google Your Homepage!' and a copyright notice '©2006 Google'.

As you can see when you want to search something on the google and start to write characters is sent from the beginning you type and offers some examples about the word you search. And also it gives the number of the links about that word. XMLHttpRequest is a component that work on the browser asynchronously. This component makes the request and can transmit the response asynchronously. Because doing this job on the background, The user cannot understand the this process so the programmers can give the feeling of desktop work to the users by tihs way. By using this tecnology the points on the screen that must not be changed, can be stay on the screen unchanced when you are doing something on the page.

After all I examined the examples of ides on the market. The common properties of them are about the user interfaces. There are some pages on

the upper side of the screen so the user can change the interfaces of the program. For example after he wrote the codes, he can see the graphical output of the codes on the design view and on the browser. This is very useful for the user so it is the indispensable property of an ide. So our product will also have this kind of faces.

The other ides useful property is debugging. Tracking down and fixing programming errors in an application under development is very useful for the users. So they can see and understand the errors and can solve the problems of the code quickly. This property may be the most important and the attractive property of a software. So this is also very important for our Project.

But I think the worst about these programs is the disorderliness of them. About this subject the user interfaces must be plain. The user must not spend too much time for understanding the working principle of the software. So our program must be designed according to this idea.

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## **Meeting Report**

Yavuz Aşık

This week i have done some research about the products which show paralellism with our Project. I have seen that there are lots of software .Some of them are Google Web Toolkit Designer ,JackBe ,TIBCO, Morfik,Joyistar Webshop etc. I have analyzed the online demos of these products.They all have different attributes which provide users to develeop Rich web applications. For example Joyistar provides Cross –Platform that is support all major browsers at present Almost all of them provide the users an easy to use visual design environment. I tried to examine as many as these products.These examples help met o form something in my mind about our Project.