



MIDDLE EAST TECHNICAL UNIVERSITY  
COMPUTER ENGINEERING DEPARTMENT

## Senior Project Proposal Report

A Company Manufactures Everything  
(ACME)



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## 1.0 Company Name

Acme – A Company Manufactures Everything

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### 3.0 Project Title

 LADES – Lades is a AJAX Development Environment Studio

### 4.0 Project Scope and Definition

Ajax that stands for Asynchronous JavaScript and XML is a new technology that helps to create interactive web applications. In this technology there is no need to reload the whole page, instead only the necessary and sufficient parts of the web application will be reloaded [1]. So we can say Ajax technology brings the power of internet and the speed of desktop applications together [3].

Today implementing web pages with Ajax technology saves time of end-users by increasing efficiency of the web-pages by shortening loading time of the page. However, developers are losing time when they are trying to implement this kind of web applications. Nowadays, speed is a priority for developers, and most developers are using environments that help them to create their applications in a more rapid way. So most developers prefer integrated development environments to create their applications.

As Ajax is a new, powerful technology developers need such a powerful environment which simplifies code writing and makes it easy to design web sites using Ajax.

In the enterprise there is a need of development environment to create web applications with Ajax, since all existing projects are commercial. On behalf of open source community, in our senior project, a graphical development environment for creating web applications with Ajax will be implemented. In this environment, scripts within HTML pages can be edited, created and debugged. Also Ajax actions can be added or removed through this environment in order to add functionality to web components. The main idea of the project is to implement an IDE which supplies all IDE framework features.

### 5.0 Application Areas of Our Design

When easiness and efficiency which Ajax technology brings into enterprise is taken into consideration, Ajax can be used in any application; both small and complicated ones.

Our design will be helpful for all Ajax developers. No matter the complexity of the web application, developers prefer writing less code, and saving time. As Ajax can be used in several applications our design can be used to develop various applications too. Most

famous applications that are developed with Ajax are Google Maps, Gmail, Google Suggest, ZK [2, 4].

By using Ajax development environment, the users will be able to develop applications similar to those famous ones that are stated above.

## 5.0 Initial Ideas

As a team, after doing research about our project topic, in our first meeting we came together, discussed about possible properties of our application and decided to provide several features to the users. Basic characteristics of our program will be as the following:

- Our product will be able to create new projects, add new files to these projects, save and load existing projects.
- Projects can be built, debugged, run and deployed.
- Project files will be displayed in a hierarchical way.
- Users will be able to develop their projects by using user interfaces. There will be two choices of generating web applications; first by text editor, second by design window. These can be used interchangeably through tabs.
  - The text editor will support several features such as syntax highlighting and auto indentation.
  - By the use of design window, user will be able to drag and drop HTML form elements and edit their JavaScript events and their properties like name, color, font and location. This method generates the source code automatically. User may also be able to edit generated source code through text editor.
- Database connectivity may be integrated to the project by the use of web services. These can be query based.
- Our project will be platform independent. In order to achieve this, we will not use any platform dependent components in our software.
- Used HTML form elements and JavaScript methods will be shown hierarchically providing easy navigation.

- Built project can be run through default web browser. Built-in browser view may also be integrated to the program.
- To develop a user friendly user interface, we will adapt general design rules in our project such as easy installation, use of menus and toolbar buttons.
- There will be an extensive help system to provide users necessary support by using tool tips and help documents to guide them to develop web applications with Ajax.

## **6.0 Conclusion**

So far, we have some initial information on senior project procedure and what to do in the project. First of all, as a team, we came together and the project topic was decided among the choices. After having decided to the project topic, the general information was gathered on Ajax by internet search and we have found out what is needed to be implemented and what basic requirements are needed.

## 7.0 References

- [1] *Ajax (programming)*, [http://en.wikipedia.org/wiki/Ajax\\_%28programming%29](http://en.wikipedia.org/wiki/Ajax_%28programming%29)
- [2] *ZK Component Demo*, <http://www.zkoss.org/zkdemo/userguide/>
- [3] *Mastering Ajax, Part 1: Introduction to Ajax* by Brett McLaughlin April 12, 2006, [http://www.javascriptsearch.com/guides/Beginner/articles/MasteringAJAX\\_1.htm](http://www.javascriptsearch.com/guides/Beginner/articles/MasteringAJAX_1.htm)
- [4] *AJAX (programlama)*, [http://tr.wikipedia.org/wiki/Ajax\\_\(bilgisayar\)](http://tr.wikipedia.org/wiki/Ajax_(bilgisayar))