

MIDDLE EAST TECHNICAL UNIVERSITY

COMPUTER ENGINEERING DEPARTMENT



CENG 491 Project Proposal

ANAFOR YAZILIM

A Developers Studio for AJAX

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Company Name:

Our company name is decided to be **ANAFOR YAZILIM**.

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Project Topic:

In this project, we are going to develop a developer's studio for Ajax. Ajax, shorthand for Asynchronous JavaScript and XML, is a web development technique for creating interactive web applications. The intent is to make web pages feel more responsive by exchanging small amounts of data with the server behind the scenes, so that the entire web page does not have to be reloaded each time the user makes a change. This is meant to increase the web page's interactivity, speed, and usability.

During development stage, some utilities are expected from IDE. An IDE should provide user with server connection. The reason is that most of the pages developed using AJAX make several requests from server and so the code is generated accordingly. A web developer frequently makes changes in code and wants to see the effects on the screen(browser) immediately which means that **server connectivity** is an essential part of our development kit.

To sum up, our IDE will be an application providing developers with two basic modules: 1.client-side module, 2.server-side module. And with a user friendly interface, we will make developing Ajax easier.

Application Areas of our Software:

With the growing usage of internet all over the world, the web applications started to play an important role in software development area. And the growing demand for web applications made developers find out new techniques for efficiency and fastness concerns. Ajax is the technique developed to increase the interactivity, speed and usability of web pages. The popularity of Ajax comes from the property that it can selectively modify a part of a page displayed by the browser, and update it without the need to reload the whole document with all images, menus, etc... which makes the response time shorter. Since Ajax is the most commonly used technique in developing interactive and dynamic web applications these days, most of the web developers need a robust Ajax development tool. As a result, our software has a target user profile consisting of the whole web developers.

Initial Features of our Software:

The application will be developed regarding four basic design principles. These are;

- User friendliness
- Modularity
- Platform independency
- Consistency

Concerning these design parameters, the following features are planned to be implemented;

- ✓ Widgets such as tree view, tool bars and tabs
- ✓ Server connectivity
- ✓ Extensive tools for development and debugging
- ✓ Syntax highlighting
- ✓ Syntax checking
- ✓ Auto completion
- ✓ Error handling
- ✓ Code indentation
- ✓ Language support
- ✓ Help menu
- ✓ Integrated browser
- ✓ Code and design view
- ✓ Predefined code generation
- ✓ Customizable user interface