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A CASE STUDY : PERFORMANCE EVOLUTION IN SERVER SIDE SCRIPTING USING AJAX TECHNOLOGY

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ABSTRACT.

AJAX (Asynchronous JavaScript and XML) is technique used on client side to create interactive web application. Using AJAX technology data can be sent to server and retrieved from server without reload an entire web page. It is reloading only specific portion of the web page. Small amounts of data can be transferred as and when required. An AJAX application performs in a similar way to local applications residing on a user's machine. It is differ from traditional web browsing. Here, I first introduce classic web model and then how differs classic web model from AJAX?

KEY WORDS: AJAX, Javascript, XML, handleHttpResponse, getHTTPObject

1. INTRODUCTION

In the traditional web model, if we want interact with server, we must call server page (ASP, PHP, JSP) and reload the whole page. In this model web client request data from web server and web server transfer the related data to web client without reload whole page. I.e. if we want to retrieve data from the database, we have to send the request to web server, web server requests to the database server and it response to the web server and client get data.

Traditional model is take time to get response from server because it reloads whole page.

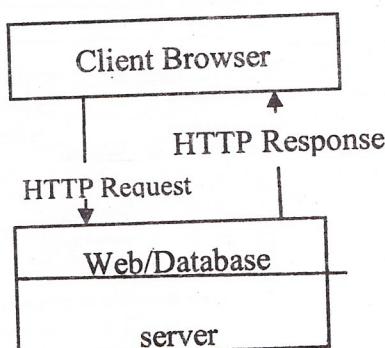


Figure 1: Classic web applications can run slowly and less user friendly Now we will examine in detail how Ajax communication works and how JavaScript is used to update the page after an Ajax callback. In AJAX technology javascript call server page internally and get back result from server without reload the whole page. It reloads the

specific portion of the web. AJAX enables responsive web applications that feel like Windows applications. It reduces the amount of data that must be exchanged between the server and client. This difference make AJAX better then traditional model. It is use for better performance and efficiency.

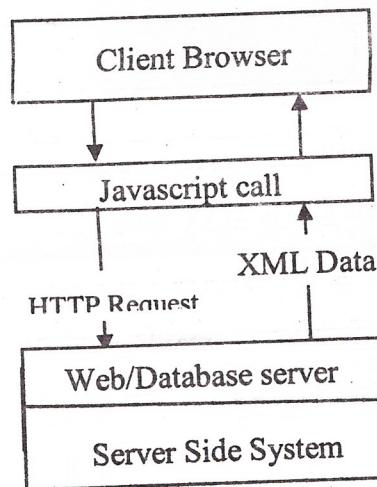


Figure 2: performance evolution in web applications using AJAX.

2. APPLICATION AND EXPERIMENT

We will examine in detail how Ajax communication works and how JavaScript is used to update the page after an Ajax callback. How can we retrieve data from the server without reload the whole page?