

Introduction to AJAX

Agenda



Introduction to Ajax

Objectives

At the end of this module, you will be able to:

- Know what is AJAX ?
- Understand web standards used in AJAX
- Understand advantages of AJAX

Introduction to Ajax





What is AJAX?

- AJAX stands for Asynchronous JavaScript And XML
- AJAX is a new way to use existing technologies to generate dynamic web applications
- AJAX is based on JavaScript and HTTP Requests
- With AJAX, your JavaScript can communicate directly with the server, using the JavaScript *XMLHttpRequest* object. With this object, your JavaScript can trade data with a web server without reloading the page.
- With AJAX you can create better, faster and more user friendly web applications.
- Through AJAX both request and response are carried out simultaneously.
- AJAX is a client side technology.

Why AJAX? (Contd.).

• Ajax is not a new technology, it's an amalgamation of several existing technologies coming together in powerful new ways.

- Ajax Incorporates :
 - Standards based presentation using XHTML and CSS
 - Dynamic display and interaction using DOM.
 - Data Interchange and manipulation using XML and XSLT
 - Asynchronous data retrieval using XMLHttpRequest
 - JavaScript binding everything together

Web Standards used in AJAX

AJAX is based on the following Web Standards:

- JavaScript (For event action)
- XML (for information exchange)
- HTML (for formatted display)
- CSS (for formatting template)

This is also compatible with server-side technologies like-

- JSP/Servlet
- ASP/ASP.NET
- PHP etc

AJAX- for better Internet Applications

- Web applications cater to larger audience over extensive geographical regions
- Sometimes synchronous request processing may lead to performance issues
- Refreshing a page will entail in loss of information fed by the user
- AJAX makes internet applications much more user friendly
- Internet applications efficient and faster data can be validated before the form is submitted
- Gives rich UI contols
- Frameworks can work seamlessly if AJAX is incorporated
- AJAX does not require API overhead like other technologies
- Nowadays, AJAX is supported by almost all browsers

AJAX - Advantages

- Real-time form data validation
- Autocompletion
- Load on demand
- Sophisticated user interface controls and effects
- Refreshing data and server push
- Partial submit
- Mashups

Summary

In this module, you were able to:

- Know what is AJAX ?
- Understand web standards used in AJAX
- Understand advantages of AJAX

confidential

References

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Thank You