Sr. Software Engineer (SSE)

Abstract
This is one of the subject from my personal notes series named "Coding-With-Arqam" that I am developing from the start of my professional development career.

Subject
AJAX

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- *General Points:*
    1. *AJAX stands for Asynchronous JavaScript and XML.*
    2. *It is a group of related technologies used to display data asynchronously.*
    3. *In other words, it sends and retrieves data without reloading the web page.*

- *What are the advantages of AJAX:*
    1. *Quick Response*
    2. *Bandwidth utilization*
    3. *The user is not blocked until data is retrieved from the server.*
    4. *It allows us to send only important data to the server.*
    5. *It makes the application interactive and faster.*

- *What are the disadvantages of AJAX:*
    1. *Dependent on JavaScript*
    2. *Security issues*
    3. *Debugging is difficult*

- *What are the real web applications of AJAX currently running in the market:*
    1. *Twitter*
    2. *Facebook*
    3. *Gmail*
    4. *Javatpoint*
    5. *Youtube*

- *What are the security issues with AJAX:*
    1. *AJAX source code is readable*
    2. *Attackers can insert the script into the system*

- *What is the difference between synchronous and asynchronous requests:*
    1. *Synchronous request blocks the user until a response is retrieved whereas asynchronous doesn't block the user.*

- *What are the technologies used by AJAX:*
    1. *HTML/XHTML and CSS - These technologies are used for displaying content and style.*
    2. *DOM - It is used for dynamic display and interaction with data.*
    3. *XML - It is used for carrying data to and from server*
    4. *XMLHttpRequest - It is used for asynchronous communication between client and server.*
    5. *JavaScript - It is used mainly for client-side validation*

- *What is the purpose of XMLHttpRequest:*
    1. *It sends data in the background to the server.*
    2. *It requests data from the server.*
    3. *It receives data from the server.*
    4. *It updates data without reloading the page.*

- *What are the types of post back in AJAX:*
    1. *Synchronous Postback - It blocks the client until the operation completes.*
    2. *Asynchronous Postback - It doesn't block the client.*