Assignment

1.What is Ajax? Advantages of Ajax?

Ans.Ajax stands for Asynchronous JavaScript and Xml. Its a set of web development techniques that allows web pages to send and receive data from a server asynchronously without the need to reload the entire page .

Advantages

* Improved user experience -faster and responsive web applications
* Bandwidth efficiency -it send and receive smaller amount of data compared to full page loads saves bandwidth and reduce server load
* Enhanced error handling -better error handling and feedback to users without disrupting entire page
* Reduced server load only specific data is fetched ,server doesn’t have to generate entire html page for every request

2.What is Json? Why do we use Json?

Ans. Json stands for JavaScript object notation its is a lightweight data interchange format that is easy for humans to read and write and for machine to generate. It is a versatile and widely used data format that is used for data exchange and configuration in a variety of application (especially web development).

* Readability -it uses a simple syntax for human to understand and work with.
* Wide adoption-It is widely supported by programming language, libraries and framework, making it a popular choice for data communication.
* Json is not tied with any programming language making it easier for data exchange

3. What is jQuery? Advantages of jQuery?

Ans. jQuery is JavaScript library that simplifies web development tasks related to html document traversal, manipulation and Ajax interactions.

* Simplicity-jQuery provides a more simple and short syntax for common JavaScript tasks making it easier for developers to understand and write the code
* Ajax- it includes methods for making Ajax requests, which simplifies the process of fetching data from a server without requiring developers to write a lot of custom code.
* Animations and effects- It provides a built in function for creating animations and applying visual effects to web page elements, enhancing user interface activity.
* Compatibility-jQuery abstracts many browser specific issues and provides consistent API ensuring that your code works consistently across various web browsers

4. What is NO-SQL databases? Examples?

Ans. NoSQL databases often referred to as non-relational or not only SQL databases area category of databases management systems that are designed to handle data models that are different from traditional relational databases .No SQL is often used when is a need for high scalability, flexibility, and performance and they are particularly well suited for handling large volumes od unstructured and semi structured data .

examples -MongoDB,Cassandra,Redis,Couchbase,Neo4j,Riak

5.What is HTTP STATUS CODES ? What is the meaning of 401,403,404,500 status codes

Ans.HTTP status codes are the outcomes of client request .It is a numeric codes which shows the result of the request, whether it was successful ,encountered an error or further actions .

401-unauthorised

403-forbibben

404-not found

500- internal server error