Day1-10/10/2023

**Web Technologies Foundation**

Ques1. What is AJAX? Advantages of AJAX?

Ans. AJAX is a set of web development techniques which is used to send and retrieve data from the server without interrupting the existing display with the help of HTML, XML, JS and CSS.

Advantages:

1. Reduces server traffic and increase speed – It renders without data which reduces server traffic inside requests.
2. Enable Asynchronous calls – It assists in loading only required data until the user asks for the remaining data (aka Lazy loading).
3. XMLHttpRequest – It transfers & manipulate data to and from a web service using HTTP which establishes an independent relationship between web-page’s client side and server.
4. Reduce bandwidth usage – It can bring data from the database and store it into the database to perform background without reloading the page.
5. Form validation – It enables precise and immediate form validation.

Ques2. What is JASON? Why do we use JSON?

Ans. JSON(JavaScript Object Notation) – It is a data interchanging format which uses human-readable text to transmit data objects consisting of data structure in a way that it can be retrieved in its original structure when needed(Data Serialization).

We use it because:

1. Parsing data from one application to another through JSON is easy because of its language-independent data format.
2. Almost every programming language has JSON support through official and 3rd party.
3. It can be used as a configuration or temporary data storing file also for any application.

Ques3. What is jQuery? Advantages of jQuery?

Ans. jQueryis a fast, feature-rich, and lightweight JavaScript library. Its main purpose is to make it much easier to use JavaScript on modern and smart website.

Advantages:

1. Ability to keep the code simple, clear, readable and reusable.
2. It is an open-source library which is free to use and has large community support.
3. It enables cross browser support.
4. The plugins are supported in jQuery, so you can develop yours or use plugins from third parties.

Ques4. What is No-Sql Database? Examples?

Ans. NoSQL is a type of database management system (DBMS) that is designed to handle and store large volumes of unstructured and semi-structured data that can adapt changes in data structures.

Example: MongoDB, Big Table etc.

Ques5. What is HTTP Status codes? What is the meaning of 401, 403, 404, 500 Status codes?

Ans: HTTP Status codes indicates whether a specific HTTP request is successfully executed.

1. 401: Unauthorized access
2. 403: Webserver processes with insufficient file read permissions.
3. 404: The server cannot find the requested resource
4. 500: Server encountered an unexpected condition.