Refer this link first: <https://www.geeksforgeeks.org/ajax-introduction/>

**what is Ajax**

Ajax is an acronym for Asynchronous Javascript and XML. It is used to communicate with the server without refreshing the web page

**1.JavaScript:** the **requests a**re made through the use of javascript functions.

**2.XML:** XML which is used to create **XMLHttpRequest object**.

 For implementing Ajax, only be aware of XMLHttpRequest object. Now, what actually it is. It is an object used to **exchange data with the server behind** the scenes. Usually, create this object and use it to call the methods which result in effective communication.

Syntax: **req = new XMLHttpRequest();**

There are two types of methods open() and send(). Uses of these methods explained below.

req.open("GET", "abc.php", true);

req.send();

What are the different ready states of a request in AJAX?

There are 5 ready states of a request in AJAX.

* 0 means UNOPENED(request not initiate)
* 1 means OPENED(connection established)
* 2 means HEADERS\_RECEIVED(request received)
* 3 means LOADING(processing request)
* 4 means DONE(response ready)

XMLHttpRequest also has a property named as **status**. The status has following values

* 200: “OK”
* 404: “Page not found”

Now remember it always that when readyState is 4 and status is 200, the response is ready.

JSON stands for **JavaScript Object Notation**. In AJAX, it is used to exchange data between a browser and a server. It is easy to understand, and data exchange is faster than XML.

**ErrorTemplate** to handle the exception in AJAX

There are two types of **post backs**:

* Synchronous Postback
* Asynchronous Postback