**AJAX**

* AJAX is not a language it is a technique of reading and updating the data without reloading the web page.
* AJAX is asynchronous JavaScript .
* AJAX is useful for performing communication b/w client and server.
* AJAX create a request through the XML(XML http Request) object and send it to the web server. Web server respond that request to the XML and after that required task will perform.
* XML is eXtensive Markup Language which useful for distribute the data over the Internet.

**APIs:-**

* + APIs is nothing but it is a ***application programming interface*** .
  + Which provide interface between application and programmes.
  + Basically , There is a four types of APIs JavaScript,
    - ***Public APIs:-*** Which publically available and accessible.
    - ***Partner APIs:-*** Which is accessible to a selected persons.
    - ***Internal APIs:-***  It is private APIs which is accessible through a particular business to connect a systems and databases.
    - ***Composite APIs:-***  It is a combination of more then one API.

**Steeps For Sending And Responding The http Request**

**1)Create a XMLHttpRequest Object:-**

var request = new XMLHttpRequest();

//this create the object of xmlhttprequest for sending request and responding the request.

**2)Open Method:-**

Open() method is useful for sending the request.

It takes two parameters:1)method of http like GET,POST etc.

2)<url:-> it include the file url which is for needed task like updating etc.

**3)Finally Send:-**

send() or send(body) is useful for sending the request to server.

Body specify the body of the request which is specifically used in POST method.

GET not have the body so.

GET is useful for sending small amount of data where POST is useful for sending large amount of data in http body format(i.g form).

**Readystate:-**  it is a property which is int . which specify the http request status.

Five status are there::

0 – unsend – xml object created but open method not called yet.

1 ­– opened- open method is called for sending the request

2 - HEADERS\_RECEIVED- server recived the request and send method call

3 – Loading – server procees the request

4 – Done – server processing request is done and response is ready

**Some server status…**

200 -> server successfully process the request

401-> server can’t find the request page

503-> server service is not available

**setRequestHeader():-** it is useful for setting the header when we are not using any form data. header specify must be after open method and must be before send method.

**AJAX HEADERS**

Headrs is nothing but it denotes the what kind of response is accept by the client browser from server.

***Syntax: $.ajax({headers:{key,value}}); // it doesn’t return any value***