- ☐ Asynchronous Javascript And XML
  - ☐ AJAX is collection of the above technologies.
  - ☐ Earlier XML was used to transfer data, these days JSON is used.
- ☐ Doesn't blocks the program.

# GET Request

- ☐ const xhr = new XMLHttpRequest(), attributes in xhr
  - ☐ **.open** : A Function call.
    - ☐ method : 'GET', 'POST'
    - ☐ url : The url where request is to be sent.
    - ☐ async : true to make it asynchronous.
  - ☐ **.onprogress** : Assign a function (optional)
    - ☐ Executes when xhr.send() is called.
    - ☐ Preferably used to initiate loaders.
  - ☐ **.responseType**
    - ☐ = 'json'
    - ☐ This allows to omit the response conversion by JSON.parse.
  - ☐ **.onload** : Assign a function.
    - ☐ Executes when ajax call is completed.
    - ☐ Preferably used to stop loader and render the data.
  - ☐ **.send** : Call the function without any arguments.
    - ☐ To send the request. 💁
  - ☐ .onerror : Assign a function.
    - ☐ Executes when any error occurs while sending/getting request.
    - ☐ Usually handled with some alert messages.
  - ☐ **.onerror**
    - ☐ Usually executes if there is some connection issue.
  - ☐ **.onreadystatechange** : Assign a function.
    - ☐ **OLD METHOD**
    - ☐ There are 5 ready states (0-4).
    - ☐ They can be accessed by xhr.readyState.
    - ☐ The function is executed each time ready state changes.
    - ☐ readyState = 4 means ajax call completed.
  - ☐ **.setRequestHeader** : Set headers in the request.
    - ☐ Headers are key value pairs that provide details for the request.
    - ☐ .setRequestHeader("HTTP_X_REQUESTED_WITH", "XMLHttpRequest")
    - ☐ .setRequestHeader("X-Requested-With", "XMLHttpRequest")
    - ☐ .setRequestHeader("Content-Type", "application/json") // Only in POST request.
- ☐ URLS to play with ajax get request
  - ☐ To play with random data with random fields, http://www.dummy.restapiexample.com/.
  - ☐ To create a api with random data with specific fields,
    1. create random data with specific fields in https://mockaroo.com/.
    2. Copy the data from here and paste it in https://mocki.io/fake-json-api to get a get api url (endpoint).