**JavaScript stack**

**Events**

Event is an interaction between user and component dom element or html tags.

JavaScript provided lot of pre defined events which start with pre fix on followed by event name.

onClick

onDblClick

onMouseOver

onKeyUp

onKeyDown

onChange

onSubmit

**User defined object**

**Literal style**

**Function style**

**Class style**

Object -🡪 any real world entity

Property or state --🡪 have🡺name,age, height, weight etc.

Person

Behaviour --🡪do/does --🡪 teaching, typing, eating etc.

Bank

Animal

Car

Etc

**Asynchronous communication**

**Synchronous flow Vs Asynchronous flow**

Synchronous : it execute the statement line by line

document.write(“1st statement”); fun1()

document.write(“2nd statement”); fun2()

document.write(“3rd statement”); fun3();

**Asynchronous** : it will execute all those statement or function independently

document.write(“1st statement”); fun1()

document.write(“2nd statement”); fun2() async

document.write(“3rd statement”); fun3(); async

1st req check from db

2nd req get some notification from fs

3rd req say hello

client Server

1st res

2nd res

3rd res

AJAX : Asynchronous JavaScript and XML

**Promise :** promise is one of the pre defined object part of JavaScript which is use to handle asynchronous event of data. Promise take callback function with 2 parameter. 1st resolved and 2nd rejected.

**Fetch functions**

**Fetch(URL): it is a pre defined function which help to call api. return type of fetch is promise. Promise resolved then called. Catch get call if promise rejected.**

**Web Service**

Giving the service for web application when both the application running using different technologies.

**React js**