

Let vs var
Js is sync or async
Is css is part of DOM
What is target in a tag
What is srcset
What are pseudo selectors
Box sizing
What is normalize css
What is cache busting
Reprint vs reflow
Steps of CRP
How redux thunk work
Is there is any priority in event queue
useCallback
Use of react clone
Prop drilling
Pure component vs component

JSON :

1. What is json and why preferred over xml?
2. eval() for json
3. how to extract object from json

AJAX :

1. What is ajax & how used?
2. can we make it synchronous and how?

HTML :

1. # difference b/w html 4 and 5
What's new in html5
why html5
2. API in html5
3. DOB on a web page. Which element and on what browsers you can use it?
4. storage - session and local
5. responsive design?
6. ways to achieve responsive design?
7. # media query
 - a. #another way?
8. get and post difference? case where u will use get and post.? how these methods work?

9. META tag??
10. What if I omit the doctype on top of page?
11. form submission elements?
12. what things the document contains?
13. document.documentElement?
14. what is DTD?

CSS :

1. CSS3 advantages?
2. transform and transition difference
3. css3 animation and js animation difference
4. inline-block and inline difference?
5. display and visibility difference?
6. \$('#id .myclass') \$('#id.myclass') \$('#id[class="myclass"]')
7. repaint and reflow
8. relative and absolute position diff
9. select blanket layer over modal to close it : sol - select blanket and add click handler to it.
10. If only one child is present inside div then give that div red colour.If more than one present then does not matter
11. return false vs stop propagation vs prevent default vs stop immediate propagation
12. table-cell display type (Use this to align vertically and horizontally)
13. align vertically and horizontally : diff ways
14. How to align vertically if dimensions of div are given in %
15. Inline elements can be given padding and margin on horizontal but not vertically
16. inline-block elements to remove space of 4px. (Reason : whitespace)
 - negative margin
 - remove whitespace using comments
 - font-size : 0 (Optimum solution)
17. 1-2 given red,3-4 given black etc using css (sol : can use data attribute)
18. opacity vs visibility diff
19. Why vertical margins merge?

JAVASCRIPT :

1. Closures example
2. Callback example
3. Scenarios where this is failed.
4. fibonacci efficiency
5. eval() function in jquery used with json data
6. websql?
7. js and jquery difference?
8. document.onload and document.ready difference?

9. PERFORMANCE??

10. implement setInterval using setTimeout.

11. null and undefined difference

12. functions are objects in JS? explain it.

13. function foo(){} foo.a=10; will a be accessed as property of foo function?

14. function foo(){ var a=10;} var b=new foo(); Will a add as property to b object?

15.

```
function foo(){
  var a=10;
  var b=function(){
    console.log(a);
  }
  a=20;
  return b;
}
var c=foo();
var d=c();
```

What is o/p and how it will return 20 as o/p?

16. Code to remove duplicates from array in O(n)?

17. Code to read no. of duplicates in array.

18. var a={} var b={} ; a==b//false and a===b // false .. why?

19. variable hoisting

20.

```
var foo1=new Object();
var bar1=new Object();
var foo=new Object();

foo[foo1]='foo1';
foo[bar1]='bar1';
alert(foo[foo1]);
```

21. call, apply, bind

22. event capture - if third attribute is made true which is true by default which means it is event bubble up.

23. why jquery so popular?

24. web-workers? can i manipulate DOM with them?

25.

```
var a=10,b=20;
function outer(){
  console.log(a+"b"+"c)
  var c=30;
  function inner(){
```

```

        a=15;
        b=25;
        c=35;
    }
    inner();
    console.log(a+"b"+"c)
}
outer();
console.log(a+"b"+"c)

```

26.

```

/*Function hoisting problem*/
foo(); // alert foo
    bar(); // function exp. not hoisted so typeerror.but bar variable will be hoisted.
        // so give error : TypeError:undefined is not a function.
    spam(); // ref. error
    baz(); // not hoisted

function foo(){ alert('foo'); }

var bar=function(){ alert('bar'); }

var baz=function spam(){ alert('spam'); }

foo(); // alert
bar(); // alert
spam(); // ref. error
baz(); // alert

What is o/p and why?

```

27. difference b/w java and js?

28. why jquery?

29.

```

/*1. Inheritance in JS(talentica)*/
function person(name){
    this.name=name;
}
function employee(name,id){
    Person.call(this,name);
    this.id=id;
}

/*2. object type same for all the classes - parent and subclasses*/

```

```
employee.prototype= new Person();
```

```
/*to check for scope chain*/  
if(obj instanceof Person)
```

30. 3 Pages example(Talentic) -- on submit form goes to first page, then submit form at second page, and then submit form at third page. So how u will collate data at third page?

/*Talentic Director Round Starts Here*/

31. In Ajax Call -What data to send to server for pagination?

32. How pagination is implemented?

33. In google suggestions what algo. used for search? What Data Structure?

34. After getting JSON response, How JSON used to display data in HTML?

35. How Page bookmarking is done? What checks to be made while bookmarking?

36. Can we bookmark checkout Page?

37. Can we bookmark https pages?

38. How send data to server at ecommerce site?

39. Polymorphism in JS?

/*Ends Here*/

40. Some functions not supported in Mobile of jquery? eg ?

41. windows phone media query?

42. ajax and form submission? Which one is fast?

43. add class native js

44. set display property native js

45. Retrieve content from iframe?

46. `<input type="text" onclick='abc()' />`

Now want to call xyz() function on click of above input. How to do it?

ans-naveen `unbind()`

47. cross domain ajax : how it is implemented?

48. JSONP what internally do and how to do it without framework?

49. when you get response from server in ajax call, Does JS continue to execute simultaneously next code and code in callback function?

50. what is unusual about the date type.

51. What design pattern do you use?

52. How to extend built-in objects?

53. Why extending array is bad idea?

54. What is difference between private variable, public variable and static variable? How we achieve this in JS?

55. Difference between browser detection and feature detection

56. Graceful Degradation V/s Progressive Enhancement

(Dafodills starts here)

57. What is abstract class and interface. What is diff b/w two and implementation?

58. Draw pattern

```

&
&      &
&    & &
&  & & &
& & & & &

```

59. sort array using single loop .(array of numbers)
60. Abstraction example in JS?
61. When you might want to use closure based objects instead of prototyping?
62. What must be search box implementation?
63. Do Implementation of sum(1)(2)(3)....(n)

```

function add(n){
    var v=function(x){
        return add(n+x);
    }
    v.toString=v.valueOf=function(){
        return n;
    }
    return v;
}
add(1)(2)(3)(5)(10)

```

64. Polymorphism in JS? implementation example.
65. return false vs stop propagation vs prevent default vs stop immediate propagation
66. How array is implemented in JS in memory?
In JS,everything is object and so key value pair and key value is hash implementation.
67. How is jquery promises work?
68. What is jquery deferred object and why would you use it?
69. In form submission what all things happen?
- 70.

```

var a=5;
function foo(a){
    a=a+5;           // here this a is diff than global a variable.
}
function bar(){
    a=a+5;
    var a=7;
}
foo(a);
bar();
console.log(a);

```

- 71.

```
function foo(){
  var a=10;
  return{
    setX:function(){ a=a+10;},
    getX:function () {return a;}
  }
}
```

72. How hash is implemented in JS?
73. pub/sub implementation
74. write implementation for drag function of JQueryUI?
75. How you will refers private property in prototype in js?
76. What do this refes in prototype
77. What would happen if call/apply function will not there be in JS?
78. How lazy load can be done?
79. What is solution to page loaded after lazy load with google indexing?
80. How to use custom events in JS?
81. Js not understandable by web crawlers?so how you will achieve it so that they do not see empty tags? (ZIFI)

From Internet

82. Define a function that returns n lines of [Pascal's Triangle](#).

```
function pascal(n){
  var arr=[[1],[1,1]];
  for(var i=2;i<n;i++){
    arr[i]=[];
    for(var j=0;j<arr[i-1].length + 1 ;j++){
      if( !arr[i-1][j-1] || !arr[i-1][j]){
        arr[i][j]=1;
      }else{
        arr[i][j]=arr[i-1][j-1] + arr[i-1][j];
      }
    }
  }
  return arr;
}
var data=window.prompt('Enter no. of lines of pascal traingle');
var linesArr=pascal(data);
linesArr.map(function(arr){
  console.log(arr.toString());
});
```

83. Define a function that takes an array of strings, and returns the most commonly occurring string that array (this question came with an execution time limit)

84. Use recursion to log a fibonacci sequence of n length
85. What is the event loop?
86. Which new JavaScript / browser features are you most excited about and why?
87. Undefined ?
- this is property of global object i.e variable in scope.
 - its value is not configurable, writable and enumerable.
88. Event bubbling and capturing : what are values of this and e.target
- actually both happens but we generally listen for the bubble
 - Actually first capturing and then bubbling
 - now with stopPropagation : if applied to element which is operated on, both capturing and bubbling happens (does not effect operated on element
 - JS fiddle link : <https://jsfiddle.net/jao1ktfd/>
89. Does closures necessarily makes function to return inner function?
90. If i have attached 5 event handlers to the div and they will trigger in order which they are defined and if i add stopImmediatePropagation to the 3rd one then remaining two will not execute
91. empty : remove child elements of selected element from DOM
 remove : remove child elements plus selected element from DOM
 detach : same as remove but it retain data present at \$.cache of jquery.
92. Lexical Scope , Variable Environment, Execution Context , [[scope]]
- every function invocation will generates execution context and it will consist variable Env. (It is collection of variables from current lexical scope + outer lexical scope)
 - Now on invocation [[scope]] property of the function is assigned Variable Env. thats how behind the scenes we are able to access global and local variables.
93. what is deferred object and what is use of it and what is type of object returned from it.
94. \$.promise() : It will tell me when given actions are performed
- ```

$.makeFade().each(function(el,i){
 $(this).delay(1000*i++).fadeOut()
}).promise().then(function(){ console.log(' all animations got completed') })

```
95. \$.when ajaxcall1, ajaxcall2).done(function(res1,res2){ console.log(res1 + res2);})
96. Getting last item in array

```

var array = [1,2,3,4,5,6];
console.log(array.slice(-1)); // [6]
console.log(array.slice(-2)); // [5,6]
console.log(array.slice(-3)); // [4,5,6]

```

97. Array truncation : Just provide length
98. Array delete elements while iterate :
- Iterate elements from reverse so that i does not impact index.



99. To concat two arrays :

```
Var a1=[...], var a2 =[....]
 a1.concat(a2); // not good for large arrays
 a1.push.apply(a2); // very much efficient
```

100. Converting nodelist to arrays:

```
var elements = document.querySelectorAll("p"); // NodeList
var arrayElements = [].slice.call(elements); // Now the NodeList is an array
var arrayElements = Array.from(elements); // This is another way of converting NodeList
to Array
```

101. To check if object is an array :

```
Var a=[];
1. a.constructor.name.indexOf('Array') !== -1
2. a.constructor === Array
3. ({}).toString.call(a) === "[object Array]"
4. a instanceof Array
```

### General Related to experience :

1. What ways are discovered by you during development so that you encounter lesser bugs?
2. What points to take care while design ecommerce site?
3. When you type in browser then before page is rendered to you, what all happens behind the scenes ? when first http call is made when enter is pressed?
4. How you are serving static files in marketplace? (Question related to browser caching) (uni)
5. How browser make caching?

// Grofers

6. Train Question :

- screen 1 : Take input to make train DB
  - screen 2 : take station 1 - station 2 fields and gives you matching trains
7. Temp question :
    - a. screen1 : temp and timestamp
    - b. screen2 : gives data from db as per given time.if exact is not found give prev. entry
  8. find one time occurring element out of array in which all elts occur twice inspite of one.
  9. ESPN cricket site : How data should be updated
  10. Challenges you faced in the project and most challenging project?
  - 11.

### Angular JS :

1. \$scope
2. \$scope is where accessible
3. what is hierarchy of @scope
4. service
5. Dependency Injection
6. service v/s factory v/s provider
7. what is root ,parent,child and isotope scope?
8. Directives
9. Link v/s compile
10. Injector?
11. IsNAN
12. Strict mode
- 13.

### DB Questions :

1. DB structure if i will use comments update section.

### Require JS

1. Shim
2. optimiser usage

### Data Structures :

1. you have cards placed side by side of which some are faced and some are flipped.  
let faced mean 1 and flipped 0. Now find longest pair of flipped cards.  
e:g 1 1 1 0 0 0 0 0 0 0 1 1 0 0 1 out of this ans is these eight 0 0 0 0 0 0 0 0 set.(TT)
2. Find minimum distance to move from diagonal edges of cube? (TT)
3. ...  
...

...

Connect above dots to make squares..how many you can do ? **(TT)** ans -5

4. code to find longest path from one node of tree to another node of tree?
5. Text editor problem : How to save things ? ans : track keyboard commands **(TT)**
6. Rotated array but distorted....find element **(Lybrate)**
7. Memorisation : make efficient **(NearBuy)**
- 8.

Blog :

<http://javascriptissexy.com/16-javascript-concepts-you-must-know-well/>

<https://github.com/getify/You-Dont-Know-JS> : Book

<http://conceptf1.blogspot.com/2013/11/best-resources-to-learn-javascript.html>

<http://javascript.info/>

Questions :

<https://stackoverflow.com/questions/111102/how-do-javascript-closures-work>

<https://www.toptal.com/javascript/interview-questions>

[https://github.com/yangshun/front-end-interview-handbook?utm\\_source=frontendfocus&utm\\_medium=email](https://github.com/yangshun/front-end-interview-handbook?utm_source=frontendfocus&utm_medium=email)

<http://perfectionkills.com/javascript-quiz/>

<https://blog.webf.zone/front-end-javascript-interviews-in-2018-19-e17b0b10514>

DOM Event Propagation

Event Delegation

Event bubbling V/s Event Capturing

Data structure :

<https://code.tutsplus.com/articles/data-structures-with-javascript-singly-linked-list-and-doubly-linked-list--cms-23392>

Performance :

<https://desalasworks.com/article/javascript-performance-techniques/>