



## Web / UI Developer – interview questions and answer –

### For freshers and experienced

Content Ref : Riley Hilliard | only for use Education and Job purpose, not for official purpose.

#### 1) Explain about HTML5 local storage ?

There are two ways to store data in HTML as objects locally :

1. localStorage – store data across session access
2. sessionStorage – storing data for current session only

Data will be stored in key/value pair format.

example:

```
localStorage.empid="420";
```

```
sessionStorage.companyname = "SHARAG INFOTECH";
```

#### 2) explain CSS media queries ?

CSS media queries are used to develop responsive templates for different layout of screen, print, mobile , tablet or any other resolutions

CSS media queries can be added in 3 ways as like CSS style sheet :

1. Internal stylesheet : `<style type="text/css">`  
**@media only screen and (max-width: 600px){**  
`/* rules apply to the device resolution is 480px or less */`  
`}`  
`</style>`
2. Imported stylesheet : **@import "tablet.css" (min-width: 800px) and (max-width: 1200px);**
3. External stylesheet: `<link rel="stylesheet" type="text/css" href="desкто.css"`  
**media="screen and (min-width: 1200px), print and (min-resolution: 300dpi)" />**

#### 3) explain css inheritance ?

Inheritance propagates property values from parent elements to their children. The inherited value of a property on an element is the computed value of the property on the element's parent element. For the root element, which has no parent element, the inherited value is the initial value of the property.

A property can also be explicitly inherited by using the inherit keyword in property.

CSS inheritance example:

class inheritance for an HTML tag :

```
<div class="firstClass secondClass thirdClass fourthClass " > </div >
```

CSS property inheritance from parent :

```
p {  
color: #000;  
}  
p a:link {  
color: inherit;  
}
```

and using LESS method for inheritance example:

```
//through variable  
@color: #123456;  
#emp {  
color: @color;  
}  
div {  
color: @color;  
}
```

//through class name calling [MIXINS]

```
.rounded-corners (@radius: 2px) {  
-webkit-border-radius: @radius;  
-moz-border-radius: @radius;  
-ms-border-radius: @radius;  
-o-border-radius: @radius;  
border-radius: @radius;  
}
```

```
#navtable {  
.rounded-corners;  
}
```

```
#maintable {  
.rounded-corners(5px);  
}
```

#### 4) what is bootstrap ?

Bootstrap is an open-source Javascript framework developed by the team at Twitter. It is a combination of HTML, CSS, and Javascript code designed to help build user interface components.

Bootstrap is Sleek, intuitive, and powerful mobile first front-end framework for faster and easier web development.

Bootstrap was also programmed to support both HTML5 and CSS3

Bootstrap is a CSS and Javascript framework that is used within your HTML. Bootstrap provides more advanced functionality to your web site.

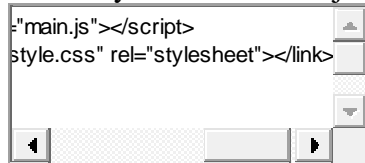
- **GENERAL but IMPORTANT:**

1. Q: What is something new / something you have found interesting recently?
2. PSD to HTML
3. HTML 5
4. CSS 3
5. HTML to WordPress
6. Bootstrap?
7. MediaQuery?
8. Javascript/Jquery Strong Knowledge?
9. Website Responsive?
10. Difference Between responsive & Metro theme?
11. A: Open Ended Question, looking to see what they are learning/ staying up-to-date with.
- 12.
13. Q: What Got you into Web Development?
14. A: Open Ended Question, looking to see what they are learning/ staying up-to-date with.
- 15.
16. Q: What is the coolest thing you've ever coded? What's something awesome you've done.
17. A: Open Ended Question, looking for an example of a complex/cool project, personality and what motivates them about development.

- **HTML:**

- Q: Name 3 of the minimum HTML elements needed for an HTML document.
- A: !DOCTYPE html | html | body | head | (title kind-of)
- 
- Q: What is Semantic HTML?

- A: HTML using markup that also conveys the containing content. HTML5 has more semantic tags than prior versions (nav | aside | article | header | footer), but using descriptive classes and id's could also be an example of semantic markup.
- 
- Q: If you have an issue with your page, how do you debug it, what tools do you use?
- A: Looking for common debugging practices like W3c validator, Firebug, Chrome Dev Tools.
- 
- Q: Call an external style sheet and an external script located in the ROOT folder called style.css and main.js with HTML.



```
"main.js"></script>
style.css" rel="stylesheet"></link>
```

- 
- 1           <script src="main.js"></script>
- 2           <link href="style.css" rel="stylesheet"></link>

- 
- Q: Name 4 new elements in HTML5 that were not available in previous HTML versions.
- A: canvas | audio | svg | header | footer | aside | article | nav | section etc...

• **CSS:**

- 
- Q: Name 3 attributes of the position property.
- A: static, absolute, fixed, relative, inherit.
- 
- Q: Name some online resources you reference when having CSS issues.
- A: Mozilla, Stack Overflow, CSS-Tricks . . .
- 
- Q: What is a CSS reset. What is the difference between a CSS reset and normalize.css
- A: CSS Reset removes browser default styles. Normalize.css sets a standard across all browsers (It does not 'reset' them).
- 
- Q: How would you solve a floated div's parent height.
- A: Clearfix, Float Parent as well, User overflow property other than 'visible'.
- 
- Q: Declare all elements with class of "blue-text" to have a text color of blue.
- A: .blue-text {color: blue;}
- 
- Q: Name 3 attributes of the position property.
- A: static, absolute, fixed, relative, inherit
- 
- Q: How do you include a comment in CSS

- A: /\* This is a Comment \*/
- **Java Script**
  - Q: Is JavaScript case sensitive?
  - A: Yes
  - 
  - Q: What are 2 (shorthand) boolean operators supported by JavaScript
  - A: or ||, and &&, not equal to !
  - 
  - Q: What is the difference between “==” and “===”
  - A: “==” checks equality, “===” checks equality and type
  - 
  - Q: What is the result of “20” + 20;
  - A: 2020
  - 
  - Q: What Javascript method would convert the string “20” to an integer (on the fly) so “20” + 20 = 40?
  - A: parseInt(“20”) + 20;
  - 
  - Q: What is an AJAX request and what is a simple example of where a AJAX request would be used?
  - A: Asynchronous JavaScript and XML. Client side process used for GET, POST etc to get new data without having to refresh the page.
  - 
  - Q: Assign any variable name a value of “Hello World”, and print that variable’s contents to the console.
  - A:



```
1      var t = "Hello World";  
2      console.log(t);
```

- Q: Create an array in JavaScript with a list of 4 colors, assign that array to the variable, ‘colors’.
- A: var colors = [‘red’, ‘yellow’, ‘green’, ‘blue’];
- 
- Q: How do you include a comment in JavaScript?
- A:



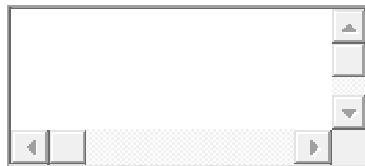
```
1      /* This is a comment block */  
2      //This is a commented out line
```

- 
- Q: Loop through the color array and print each value to the console. Assume you do not know the amount of colors in the color array.
- A:



```
1      var colors = ['red', 'yellow', 'green', 'blue'];  
2      for( var i = 0; i < colors.length; i++){  
3          console.log(colors[i]);  
4      }
```

- 
- Q: Create a new javascript object with the keys of “fname” equal to your first name, “lname” equal to your last name, and “fcolors” equal to and array of 3 of your favorite colors. assign this object to a variable called “me” and log it to the console.



```
1      var me = {"fname": "Riley", "lname": "Hilliard", "fcolors": ["blue",  
2 "green", "whitesmoke"]};  
3      console.log(me);  
4      // or  
5      var me = {};  
6      me.fname = "Riley";  
7      me.lname = "Hilliard";  
8      me.fcolors = ["blue", "green", "whitesmoke"];  
      console.log(me);
```

- Extra Credit:

- Q: Loop through the “me” object and print each value to the console without assuming you know the keys. Extra bonus: print each color in a separate console.log() without assuming you know the key of “fcolors” (detect the array, and handle printing the values of the array).



- 

```
1         var me = {"fname": "Riley", "lname": "Hilliard", "fcolors":  
2 ["blue", "green", "whitesmoke"]};  
3         for (var key in me){  
4             if(me.hasOwnProperty(key)){  
5                 if(me[key] instanceof Array){  
6                     for( var i =0; i < me[key].length; i++ ){  
7                         console.log(me[key][i]);  
8                     }  
9                 } else {  
10                    console.log(me[key]);  
11                }  
12            }  
        }
```

- **jQuery:**

- - Q: What is jQuery
  - A: A JavaScript Framework/Library that make things like DOM selection/manipulation, AJAX, and animation, easier.
  - 
  - Q: What programming language does jQuery use?
  - A: JavaScript
  - 
  - Q: Is jQuery code executed on the clientside, or serverside?
  - A: Clientside
  - 
  - Q: How do you install/use jQuery in a project. What is the minimum setup needed to start using jQuery.
  - A: script tag, linked to a jquery CDN or locally hosted file.
  - 
  - Q: How do you select all elements with the class of “selected” in jQuery?
  - A: \$(' .selected');
  - 
  - Q: Can jQuery be used to make an AJAX request?
  - A: Yes
  -

- Q: How would you select the 3rd li element and retrieve the value of its id attribute w/out selecting the li by id? \*You can select it by index.



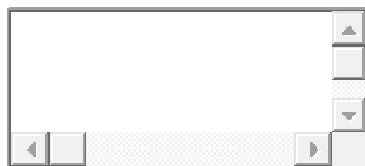
```
1      <ul id="list">
2          <li id="one"></li>
3          <li id="two"></li>
4          <li id="three"></li>
5          <li id="four"></li>
6      </ul>
```

- A:



```
1      $('ul li').eq(2).attr('id');
2      // or
3      var item;
4      $.each($('ul li'), function(i){
5          if (i == 2){
6              item = $(this).attr('id');
7          }
8      });
```

- 
- Q: \*Extra Bonus – With jQuery, construct an array that has the values ["A", "B", "C", "D", "E", "F"] by getting the letters stored in the following html elements and pushing them into the array.

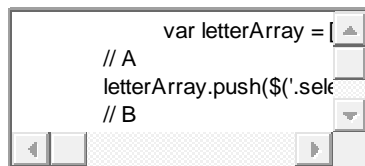


```
1      <div class="select-container" data-letter="A">
2          B
3      <div class="select-wrapper">
```



```
4         <ul>
5             <li id="select-first">D</li>
6             <li></li>
7             <li>E</li>
8             <li></li>
9             C
10        </ul>
11    </div>
12    <div>
13        <span>F</span>
14    </div>
15 </div>
```

- A:



```
1     var letterArray = [];
2     // A
3     letterArray.push($('.select-container').data("letter"));
4     // B
5     var b = $('.select-container').contents().filter(function() {
6         return this.nodeType === 3 && this.nodeValue.trim() !== "";
7     }).text().trim();
8     letterArray.push(b);
9     // C
10    var c = $('.select-wrapper ul').contents().filter(function() {
11        return this.nodeType === 3 && this.nodeValue.trim() !== "";
12    }).text().trim();
13    letterArray.push(c);
14    // D
15    letterArray.push($('#select-first').text());
16    //E
17    letterArray.push($('.select-wrapper li').eq(2).text());
18    // F
19    letterArray.push($('.select-container > div:last-child span').text());
20    // Console Log the array.
21    console.log(letterArray);
```

- **PHP:**

- Q: Declare a new variable in PHP equal to the number 3;

- A: \$number = 3;
- 
- Q: How do you check if a variable has been set in PHP.
- A: isset(\$var);
- 
- Q: How do you access a GET requests URL parameter with PHP.
- A: \$\_GET["urlkey"]
- 
- Q: How do you check if a variable has NOT been set in PHP.
- A: !isset(\$var);
- 
- Q: What is the difference between require() and include() when an error is encountered.
- A: include() will raise a warning if it fails, require() will raise a fatal error.
- 
- Q: What is a simple PHP method to make a cross domain data request?
- A: file\_get\_contents().
- 
- Q: Inside a php function, what param needs to be set in order to access a global variable?

A:



```
1      function function_name(){
2          global $the_global_var;
3      }
```

- **Bootstrap:**

- Q: What is the current major version of Bootstrap?
- A: 3.x.x
- 
- Q: What CSS class do you use to span 12 columns on medium sized screens but only 6 columns on large screens in the latest version of Bootstrap?
- A: class="col-md-6 col-lg-12"
- 
- Q: Name 3 available jQuery plugins that Bootstrap has in their Query plugin library.
- A: Modal, Dropdown, Scrollspy, Tab, Tooltip, Popover, Alert, Button, Collapse, Carousel, Affix.
-

- Q: What minimum things do you have to do in order to include Bootstrap & Bootstrap JS in a project/ HTML Document.
- A: Add bootstrap.css/bootstrap.js link and script in the head of the HTML document \*bonus if bootstrap.js script included in the footer (better for page loading).
-