Register | Login | Logout | Contact Us

Java-Success.com

Industrial strength Java/JEE Career Companion to open more doors

search here … Go

Home | Java FAQs | 600+ Java Q&As | Career | Tutorials | Member | Why?

Can u Debug? | Java 8 ready? | Top X | Productivity Tools | Judging Experience?

Home › Interview › Pressed for time? Java/JEE Interview FAQs › FAQ JEE Job Interview Q&A Essentials › JavaScript mistakes interview Q&A

JavaScript mistakes interview Q&A

Posted on September 13, 2014 by Arulkumaran Kumaraswamipillai — No Comments ↓

Q1. What are the common JavaScript errors or bad practices that you have noticed?
A1.

1) Not having proper namespaces and not using AMD (i.e. Asynchronous Model Definition) API to modularize the Java code for improved maintainability.

2) Not using the var to declare your variables. If you don't use "var", your variable will become global. Your code will work with global variables, but it can create strange errors that are harder to debug and fix. It is also imperative to define proper namespaces and declare variables within the scope of that namespace.

3) Not understanding the difference between "==" operator and "===" operator.

600+ Full Stack Java/JEE Interview Q&As ♥Free ♦FAQs

open all | close all
⊞ Ice Breaker Interview
⊞ Core Java Interview (
⊞ JEE Interview Q&A (3
⊟ Pressed for time? Jav
⊞ Job Interview Ice B
⊞ FAQ Core Java Jol
⊟ FAQ JEE Job Inter
♦ 12 FAQ JDBC
♦ 16 FAQ JMS ir
♦ 8 Java EE (aka
♦ Q01-Q28: Top
♦ Q29-Q53: Top
01: ♦ 12 Web ba
06: ♦ MVC0, MV
JavaScript mista
JavaScript Vs Ja
JNDI and LDAP
JSF interview Q&
JSON interview (
⊞ FAQ Java Web Ser
⊞ Java Application Ar

== operator compare the values but it doesn't compare the data type of operands.
=== operator in JavaScript compare not only the value of operands, but also the data type. If the data type of operands is different, it will always return false.

4) Not de-referencing a variable once it has been used. Setting a variable to null once it has been used will allow the garbage collector of the js engine to reclaim that object.

5) Not understanding the difference between **innerText** and **innerHTML**. The innerHTML gets the html code inside the element and innerText gets the text inside the element. So, if you had

```
<p> Some text </p>
```

the **innerText** will only return "Some text" without the element "p", and **innerHTML** will return

```
<p> Some text </p>
```

6) Not understanding what the implicit scope "**this**" refers to. For example,

```
function  Account(balance) {
 this.balance = balance;
 this.getTenPercentOfbalance = function() {
      return balance * 0.10;
 };
}

var mortgageAccount = new Account(10000.00);
mortgageAccount.getTenPercentOfbalance(); // ret


```

Now, if you try

```
var tenPercentMethod = mortgageAccount.getTenPerc
tenPercentMethod();  // throws an error

```

⊞ Hibernate Job Inter
⊞ Spring Job Intervie
⊞ Java Key Area Ess
⊞ OOP & FP Essenti
⊞ Code Quality Job I
⊞ SQL, XML, UML, JSC
⊞ Hadoop & BigData In
⊞ Java Architecture Inte
⊞ Scala Interview Q&As
⊞ Spring, Hibernate, & I
⊞ Testing & Profiling/Sa
⊞ Other Interview Q&A f
⊞ ▶ Free Java Intervie

16 Technical Key Areas

open all | close all
⊞ Best Practice (6)
⊞ Coding (26)
⊞ Concurrency (6)
⊞ Design Concepts (7)
⊞ Design Patterns (11)
⊞ Exception Handling (3
⊞ Java Debugging (21)
⊞ Judging Experience I
⊞ Low Latency (7)
⊞ Memory Managemen
⊞ Performance (13)
⊞ QoS (8)
⊞ Scalability (4)
⊞ SDLC (6)
⊞ Security (13)
⊞ Transaction Managen

80+ step by step Java Tutorials

Why did it throw an error?

The implicit “**this**” points to the global **Window** object, and the Window object does not have the function getTenPercentOfbalance( ).

The above two lines can be written with the JavaScript head object ‘window’ as shown below.

```
var window.tenPercentMethod = window.mortgageAcco
window.tenPercentMethod();  // throws an error

```

Important: The value of this, passed to all functions, is based on the context in which the function is called at runtime.

You can fix this by:

```
tenPercentMethod.apply(mortgageAccount); // now i
```

7) Not understanding getting the function back versus invoking the function, especially when used in callback functions. The callback functions are not invoked directly. They are either invoked asynchronously after a certain event like button click or after a certain timeout.

```
function sayHello(){
    return "Hello caller";
}

```

Now, if you do the following, you only get the function back.

```
var  varFunction = sayHello;  // stores the funct
setTimeout(sayHello, 1000)    // can also pass it
                              // This is a callba
                              // Will call sayHel

window.load = sayHello;       // Can attach to ob
                              // This is a callba

```

open all | close all
- Setting up Tutorial (6)
- Tutorial - Diagnosis (2
- Akka Tutorial (9)
- Core Java Tutorials (2
- Hadoop & Spark Tuto
- JEE Tutorials (19)
- Scala Tutorials (1)
- Spring & HIbernate Tu
- Tools Tutorials (19)
- Other Tutorials (45)

100+ Java pre-interview coding tests

open all | close all
- Can you write code? (
- ♦ Complete the given
- Converting from A to I
- Designing your classe
- Java Data Structures
- Passing the unit tests
- What is wrong with th
- Writing Code Home A
- Written Test Core Jav
- Written Test JEE (1)

How good are your …..?

open all | close all
- Career Making Know-
- Job Hunting & Resum

But if you add '( )' to it as shown below, you will be actually invoking the function.

```
sayHello();     //invoke the function
```

So, the addition of paranthese to the right invokes the function. So, incorrectly assigning like shown below will callback the function immediately.

```
setTimeout(sayHello(), 1000); // won't wait for a
//invokes it straight a way without waiting for o
<input id="mybutton" onclick="sayHello();return f

```

jQuery to the rescue with callbacks

```
setTimeout(sayHello, 1000); // waits for a second
//jQuery to the rescue
$('#mybutton').click(function(){
    return  "Hello caller";
})
```

So, it is a best practice to favor using proven JavaScript frameworks to avoid potential pitfalls.

8) Not understanding JavaScript scopes. Javascript only has **global and function scopes**, and does not have block scopes as in other languages like Java. In JavaScript, functions are values that can be assigned to a variable, including arrays.

9 Not testing the JavaScript code for cross browser compatibility. Trying to reinvent the wheel by writing substandard functions as opposed to reusing functions from proven frameworks and libraries.

Q2. What tools would you use to avoid above mentioned pitfalls?
A2. If you are writing Java Script code, it is worth using code quality tools like **JSLint** and **JSHint** to avoid any pitfalls.

It is also essential to use JavaScript testing frameworks like **Jasmine**, **Selenium + WebDriver**, **QUnit**, and **TestSwarm**. QUnit is an easy-to-use, JavaScript test suite that was developed by the jQuery project to test its code and plugins, but is capable of testing any generic JavaScript code. One of the challenges of JavaScript rich application is testing it for cross browser compatibility. The primary goal of TestSwarm is to simplify the complicated, and time-consuming process of running JavaScript test suites in multiple browsers. It provides all the tools necessary for creating a continuous integration work-flow for your JavaScript rich application. Debugging JavaScripts can be a painful part of web development. There are handy browser plugins, built-ins and external tools to make your life easier. Here are a few such tools.

— **Cross-browser** (Firebug Lite, JS Shell, Fiddler, Blackbird Javascript Debug helper, NitobiBug, DOM Inspector (aka DOMi), Wireshark / Ethereal)

— **Firefox** (JavaScript Console, Firebug, Venkman, DOM Inspector, Web Developer Extension, Tamper Data, Fasterfox, etc)

— **Internet Explorer** (JavaScript Console, Microsoft Windows Script Debugger, Microsoft Script Editor, Visual Web Developer, Developer Toolbar, JScript Profiler, JavaScript Memory Leak Detector)

— **Opera** (JavaScript Console, Developer Console, DOM Snapshot, etc)

— **Safari** ("Debug" menu, JavaScript Console, Drosera – Webkit, etc)

— **Google Chrome** (JavaScript Console and Developer Tools)

Q3. What tips would you give to someone requiring to perform computation intensive task using JavaScript?
A3. Computation intensive JavaScript tasks, for example, in a

loop can make a browser unresponsive. Here are some tips to consider.

1. Redesign the functionality by offloading the processing to a back end server.

2. The HTML 5 supports Web Worker and it brings multithreading to JavaScript. Prior to Web Worker, developers were creating asynchronous processing by using techniques like setTimeout(), setInterval(), XMLHttpRequest, and event handlers. The Web Workers specification defines an API for spawning background scripts in your web application. Web Workers allow you to do things like fire up long-running scripts to handle computationally intensive tasks, but without blocking the UI or other scripts to handle user interactions.

3. If you are not on HTML 5 yet, put a wait inside the body of the loop so as to let the browser breath. Don't use sleep(5); Instead use setTimeout(..) function, which uses the non-blocking I/O paradigm.

```
for (var i = 0, len = items.length; i < len; i++
    setTimeout(function(){
        processItem(items[i])
    }, 5)
}
```

Note: The above code can be further improved with a queue, dynamic batch sizes, and eliminating the need for a for loop.

Popular Posts

♦ 11 Spring boot interview questions & answers

825 views

♦ Q11-Q23: Top 50+ Core on Java OOP Interview Questions & Answers

767 views

18 Java scenarios based interview Questions and Answers

400 views

001A: ♦ 7+ Java integration styles & patterns interview questions & answers

388 views

01b: ♦ 13 Spring basics Q8 – Q13 interview questions & answers

295 views

♦ 7 Java debugging interview questions & answers

293 views

01: ♦ 15 Ice breaker questions asked 90% of the time in Java job interviews with hints

285 views

♦ 10 ERD (Entity-Relationship Diagrams) Interview Questions and Answers

279 views

♦ Q24-Q36: Top 50+ Core on Java classes, interfaces and generics interview questions & answers

240 views

001B: ♦ Java architecture & design concepts interview questions & answers

201 views

Bio | Latest Posts

Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It pays to prepare. So, published Java interview Q&A books via Amazon.com in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site.**945+** paid members. join my LinkedIn Group. **Reviews**

About Arulkumaran Kumaraswamipillai

Mechanical Eng to freelance Java developer in 3 yrs. Contracting since 2003, and attended 150+ Java job interviews, and often got 4 - 7 job offers to choose from. It pays to prepare. So, published Java interview Q&A books via Amazon.com in 2005, and sold 35,000+ copies. Books are outdated and replaced with this subscription based site.**945+** paid members. join my LinkedIn Group. **Reviews**

‹ JavaScript Vs Java interview Q&A

XML Processing Interview Q&A ›

Posted in FAQ JEE Job Interview Q&A Essentials, JavaScript Top Interview Q&A, member-paid

Tags: Java/JEE FAQs

Leave a Reply

Logged in as geethika. Log out?

Comment

Post Comment

Empowers you to open more doors, and fast-track

Technical Know Hows

☀ Java generics in no time ☀ Top 6 tips to transforming your thinking from OOP to FP ☀ How does a HashMap internally work? What is a hashing function?

☀ 10+ Java String class interview Q&As ☀ Java auto un/boxing benefits & caveats ☀ Top 11 slacknesses that can come back and bite you as an experienced Java developer or architect

Non-Technical Know Hows

☀ 6 Aspects that can motivate you to fast-track your career & go places ☀ Are you reinventing yourself as a Java developer? ☀ 8 tips to safeguard your Java career against offshoring ☀ My top 5 career mistakes

Prepare to succeed

☀ Turn readers of your Java CV go from "Blah blah" to "Wow"? ☀ How to prepare for Java job interviews? ☀ 16 Technical Key Areas ☀ How to choose from multiple Java job offers?

Select Category ▼

© Disclaimer

The contents in this Java-Success are copy righted. The author has the right to correct or enhance the current content without any prior notice.

These are general advice only, and one needs to take his/her own circumstances into consideration. The author will not be held liable for any damages caused or alleged to be caused either directly or indirectly by these materials and resources. Any trademarked names or labels used in this blog remain the property of their respective trademark owners. No guarantees are made regarding the accuracy or usefulness of content, though I do make an effort to be accurate. Links to external sites do not imply endorsement of the linked-to sites.