# Tech IQ Guidelines

This document provides guidelines for creating a Tech IQ.

## Overview

A Tech IQ is a series of technology questions giving developers a chance to gauge their level of knowledge on a key development topic.

## Components of a Tech IQ

Tech IQs consist of several pieces that each need to be created:

* Tech IQ Overview
* Questions
* Badges
* Final Word

The following sections detail these.

## Tech IQ Overview

Tech IQs are presented on a site by associating them to an article blurb. This article should be a title and a couple of paragraphs (at most). This overall overview will reside above the Tech IQ from beginning to end.

## Questions

The core of a Tech IQ is its questions. These questions will be presented below the Tech IQ Overview. Each question will be presented one at a time. Each question will be composed of:

* The Question
* Multiple Answers
* A response to wrong answers

At this time, questions are all multiple choice with only a single correct answer. It is recommended that a target of 10 questions be used; however, there can be an unlimited number. Additionally, each question can have an unlimited number of answers.

The question can be a single line of text or it can be more complex. A question is composed of a block of marked up HTML. As such, you can include code, images, tables, or any other information that could be presented in HTML format. When entering a question into our system, we will be required to include any markup as well. The following are examples of question layouts that could be used:

1. Which of the following is the correct meaning of Parallel Processing?
2. Look at the following piece of code. What is the output that results from running this:

cout << “A + B” << “%c” << “= “ << “$d9f” << true ;

cout << “\n\n” << “wow!” ;

A question can have an unlimited number of potential answers listed. In general, from two to five selections seems best. Each answer can be formatted in the same way as the questions – using any standard HTML mark-up. This means that answers can have text, code, images, links, or other mark-up included.

With each question there should be one right answer identified. Additionally, each question can have one blurb that will be displayed to the user if they submit a wrong answer. This blurb can contain the correct answer as well as provide any additional information that is relevant. This can include explanations on why other answers are wrong as well as links to other resources where the reader can find more about what was asked.

## Score Page

At the end of each Tech IQ is a Score Page. This page will also include the title and blurb from the article mentioned above. Below this standard text will be two additional elements:

* Score Page Text
* Badge and Badge Text

The additional “Score Page Text” will be included immediately below the Article text. This can be any additional text related to the Tech IQ that you want the reader to see after having completed all the questions. Like all of the other elements, this text can be any valid HTML markup.

After this text a badge will be displayed along with any text associated to that badge. The badge is an image that will be displayed to the user based on their score. The text associated with the badge can be any valid HTML markup.

There is an option for three different badges to be used depending on the reader’s score on the Tech IQ. For each badge, you set the minimum and maximum score. In general, it is suggested that one badge be used for a perfect score, one be used for a good/great score, and one be used for a score that is considered non-passing. Scores are based on the number of questions. For example, for a 10 question quiz, you could set up three ranges:

* 10 – Perfect
* 8-9 – Great score
* 0 to 7 – Keep trying!

## Final Words

Tech IQs can focus on any topic. It is better to multiple Tech IQs that have a clean focus than to try to do too much on one.

## Tech IQ Checklist

The following is a short checklist to verify you have everything.

[ ] Tech IQ Title

[ ] Tech IQ Overview paragraph(s)

[ ] Tec hIQ Questions:

 For each question:

 [ ] two to five answers

[ ] One answer marked as correct

[ ] “Incorrect Message” – text to display if wrong answer is selected

 [ ] Score Page Content

[ ] Final text to be displayed (optional)

[ ] Badge information (provide 3)

[ ] Badge graphic URL / file

[ ] Score range needed for this badge

[ ] Text to be displayed with this badge

[ ] Author Name for person creating Tech IQ

**# # #**

## For those comfortable with JSON

The above information can be provided in a Word document. Alternatively, you can request our automated form for creating JSON code that you can submit for your questions. This tool comes without instructions; however, it is easy to use. You can find it at:

<http://b2badcenter.quinstreet.com/ads/quiz/>

If you use this tool, then you should generate the JSON code and save it into a text file. You then only need send the JSON file along with the Tech IQ title and Tech IQ Overview.

## Sample Tech IQ

The following is a sample text for a Tech IQ submission.

#### Tech IQ Title:

Tech IQ: Are You Better than a C# Rookie?

#### Tech IQ Overview Text:

<p>Are you smarter than a C# Rookie? Test your knowledge against some basic questions about programming with C# to see if you are better than a C# Rookie! Do you have the Tech IQ to get a perfect score?</p>

#### Score Page Text:

<br /><br />Congratulations on taking the Tech IQ: Are You Better than a C# Rookie? challenge! Look for additional Tech IQ challenges on CodeGuru! <br /><br />

If you have an idea for a new Tech IQ challenge, then free free to send us an email or drop us a note in the CodeGuru feedback forum!

#### Badge One Score:

10 to 10

#### Badge One Text:

<hr />You are definitely better than a C# Rookie! Congratulations on getting a perfect score! Feel free to pass the Tech IQ URL to your friends so you can see if they are as good as you!<br /><br />

Feel free to brag about your score by posting in the <a href=http://forums.codeguru.com/forumdisplay.php?25-Feedback target=new>CodeGuru Feedback forum</a>!

#### Badge One Image URL (or image name if attached):

http://www.codeguru.com/imagesvr\_ce/2130/CSharpRookie.Perfect.PNG

#### Badge Two Score:

8 to 9

#### Badge Two Text:

<hr />Excellent try, but not quite perfect! You are definitely not a rookie! <br /><br />

Feel free to brag about your score by posting in the <a href=http://forums.codeguru.com/forumdisplay.php?25-Feedback target=new>CodeGuru Feedback forum</a>!

#### Badge Two Image URL (or image name if attached):

<http://www.codeguru.com/imagesvr_ce/1111/CSharpRookie.Great.PNG>

#### Badge Thre Score:

0 to 7

#### Badge Thre Text:

#### <hr />I'm sorry to inform you that you seem to be a C# Rookie! <br /><br />

#### You might want to spend more time in the <a href=http://forums.codeguru.com/forumdisplay.php?11-C-Sharp-Programming target=new >Codeguru C# Forum</a> or reading some of the great C# articles in the <a href=http://www.codeguru.com/csharp/csharp/ target=new >C# area</a> of CodeGuru!

#### Badge Two Image URL (or image name if attached):

<http://www.codeguru.com/imagesvr_ce/3576/CSharpRookie.Fail.PNG>

### QUESTIONS

#### Question 1:

(True or False) The Sky is generally blue during the day.

#### Question 1 Incorrect message:

<p>The sky is generally blue during the day; however, at night it is a bit dark to tell what color it really is.</p>

#### Question 1 Answer 1 (correct):

True

#### Question 1 Answer 2 (incorrect):

False

#### Question 2:

Which of the following is the most valid "Hello World!" program in C#?

#### Question 2 Incorrect message:

The first answer is the correct answer: <br /><br />

<pre>
class Hello<br />
{<br />
 public static void Main()<br />
&nbsp;&nbsp;&nbsp;{<br />
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;System.Console.WriteLine("Hello World!");<br />
&nbsp;&nbsp;&nbsp;}<br />
}<br />
</pre><br /><br />

For more complex examples of C# code, you can look in the <a href="http://www.vbforums.com/forumdisplay.php?44-CodeBank-C" target=new>VBForums C# CodeBank</a>.<br /><br />

#### Question 2 Answer 1 (correct):

#### Example 1: <br /> <pre> class Hello<br /> {<br /> &nbsp;&nbsp;&nbsp;void Main()<br /> &nbsp;&nbsp;&nbsp;{<br /> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;System.Console.WriteLine("Hello World!");<br /> &nbsp;&nbsp;&nbsp;}<br /> </pre>

#### Question 2 Answer 2 (incorrect):

Example 2: <br /> <pre> program HelloWorld;<br /> <br /> begin<br /> &nbsp;&nbsp;&nbsp;writeln('Hello World!');<br /> end.<br /> </pre>

#### Question 2 Answer 3 (incorrect):

Example 3: <br /> <pre> class Hello<br /> {<br /> &nbsp;&nbsp;&nbsp;public static void Main()<br /> &nbsp;&nbsp;&nbsp;{<br /> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;System.Console.WriteLine("Hello World!");<br /> &nbsp;&nbsp;&nbsp;}<br /> }<br /> </pre>

#### Question 2 Answer 4 (incorrect):

Example 4: <br /> <pre> public class HelloWorld {<br /> <br /> &nbsp;&nbsp;&nbsp;public static void main(String[] args) {<br /> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;System.out.println("Hello, World!");<br /> &nbsp;&nbsp;&nbsp;}<br /> }<br /> </pre>

#### Question 2 Answer 5 (incorrect):

Example 5: <br /> <pre> Public Module modmain<br /> &nbsp;&nbsp;&nbsp;Sub Main()<br /> &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;Console.WriteLine ("Hello World!")<br /> &nbsp;&nbsp;&nbsp;End Sub<br /> End Module<br /> </pre>

# # # end of example # # #