

Introduction to Software Architecture Quality

- Video: What is Software Architecture?
4 min
- Reading: ISO/IEC/IEEE Systems and software engineering — Architecture description
15 min
- Video: Architectural Styles
5 min
- Video: View, Viewpoint, and Perspective
4 min
- Video: Writing Scenarios
7 min

Peer-graded Assignment: Assessing Quality through Scenarios
Grading in progress

Review Your Peers: Assessing Quality through Scenarios

Security as an Architectural Concern

Peer-graded Assignment: Assessing Quality through Scenarios

Review by Sep 2, 11:59 PM PDT

Reviews 2 left to complete

Software Quality Attributes Assignment

by Sam Nadell
September 1, 2020

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PROMPT	RUBRIC
<p>Select a public website that you use enough to be familiar with what a typical user may want to do. This website should not require the peer reviewer to sign up for an account or pay to use the site in any way. The website should also not, to the best of your knowledge, serve malware, use JavaScript to complete cryptocurrency mining, or any other negative practice that might harm the peer reviewer.</p> <p>Select three quality attributes that are likely to be important when deciding a website architecture for the website you chose. You can use usability, security, performance, reliability, or any other reasonable quality attribute as the basis of your selection. Briefly explain the importance of each quality attribute as it relates to the software/service you selected.</p> <p>Then, for each selected quality attribute, write one scenario that would help quantitatively assess whether the software solution meets its goal. You shall write your scenarios using a format that was presented in the lectures.</p> <p>Write your first selection, discussion of importance and scenario here.</p> <p>Performance:</p> <p>Importance – The speed of search on Google is important because users want immediate access to key results based on their intent / expectations for the given search input</p> <p>Source – User interested in Premier League scores</p> <p>Stimulus – User types "Premier League" in search bar and presses enter</p> <p>Environment – System / server is under nominal operations for 5:09 PM on Mondays in New York</p> <p>Artifact – Google website</p> <p>Response – Google runs the search and displays the results on the web page</p> <p>Response Measure – 95% displays search results in <1.00 secs; 99.9% displays search results in <2.00 secs</p>	<p>Is the quality attribute clearly identified?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the quality attribute explanation of importance present?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the quality attribute explanation of importance clear?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the quality attribute explanation of importance reasonable?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the quality attribute explanation of importance well-written (clear language, proper grammar, correct spelling)?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the scenario content present?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the scenario content clear?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the scenario content reasonable?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Is the scenario content well-written (clear language, proper grammar, correct spelling)?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Does the scenario capture a measurement of the quality attribute identified?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div> <p>Does the scenario follow one of the formats discussed in the course?</p> <div><div></div> 0 pts No</div> <div><div></div> 1 pt Yes</div>

<p>PROMPT</p> <p>Write your second selection, discussion of importance and scenario here.</p> <p>Usability:</p> <p>Importance – The usability of Google searches is important because users wants Google to interpret meaning to give expected result (despite typos, different wording)</p> <p>Source – User Interested in Premier League scores</p> <p>Stimulus – User intends to search for Premier League scores (but may have typos, different wording) and presses enter</p> <p>Environment – System / server is under nominal operations for 5:09 PM on Mondays in New York</p> <p>Artifact – Google website</p> <p>Response – Google runs the search and displays the results on the web page</p> <p>Response Measure – 95% of time user gets Premier League scores as intended; 99% of time user is shown something soccer-related</p>	<p>RUBRIC</p> <p>Is the quality attribute clearly identified?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the quality attribute explanation of importance present?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the quality attribute explanation of importance clear?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the quality attribute explanation of importance reasonable?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the quality attribute explanation of importance well-written (clear language, proper grammar, correct spelling)?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the scenario content present?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the scenario content clear?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the scenario content reasonable?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the scenario content well-written (clear language, proper grammar, correct spelling)?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Does the scenario capture a measurement of the quality attribute identified?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Does the scenario follow one of the formats discussed in the course?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p>
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<p>PROMPT</p> <p>Write your third selection, discussion of importance and scenario here.</p> <p>Reliability:</p> <p>Importance – The reliability of Google searches is important because users wants to consistently access search results on demand</p> <p>Source – Users worldwide over course of one week</p> <p>Stimulus – User runs any search of interest</p> <p>Environment – System / server is measured over course of 1 week world wide during normal use</p> <p>Artifact – Google website</p> <p>Response – Google runs the search and displays the results on the web page</p> <p>Response Measure – 99.9% of time server does not crash due to overloading / many concurrent users</p>	<p>RUBRIC</p> <p>Is the quality attribute clearly identified?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the quality attribute explanation of Importance present?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the quality attribute explanation of Importance clear?</p> <p><input type="radio"/> 0 pts No <input checked="" type="radio"/> 1 pt Yes</p> <p>Is the quality attribute explanation of Importance</p>
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reasonable?

- ☐ 0 pts
No
☒ 1 pt
Yes

Is the quality attribute explanation of importance well-written (clear language, proper grammar, correct spelling)?

- ☐ 0 pts
No
☒ 1 pt
Yes

Is the scenario content present?

- ☐ 0 pts
No
☒ 1 pt
Yes

Is the scenario content clear?

- ☐ 0 pts
No
☒ 1 pt
Yes

Is the scenario content reasonable?

- ☐ 0 pts
No
☒ 1 pt
Yes

Is the scenario content well-written (clear language, proper grammar, correct spelling)?

- ☐ 0 pts
No
☒ 1 pt
Yes

Does the scenario capture a measurement of the quality attribute identified?

- ☐ 0 pts
No
☒ 1 pt
Yes

Does the scenario follow one of the formats discussed in the course?

- ☐ 0 pts
No
☒ 1 pt
Yes

OVERALL ASSIGNMENT RUBRIC

Is the website selected publicly accessible?

- ☐ 0 pts
No
☒ 10 pts
Yes

Is the website selected a real website with a clear purpose? As an example, it is not just the submitting learner's personal website.

- ☐ 0 pts
No
☒ 10 pts
Yes

Submit Review

Comments

Comments left for the learner are visible only to that learner and the person who left the comment.



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