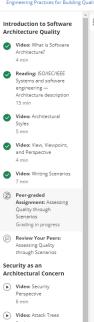
Prev | Next

Engineering Practices for Building Quality Software > Week 2 > Assessing Quality through Scenarios



▶ Video: Security Tactics

# Peer-graded Assignment: Assessing Quality through Scenarios

### Review by Sep 2, 11:59 PM PDT

Reviews 3 left to complete

## Assesing quality through scenarios - Homework

by Jesús Andrés Hincapié August 29, 2020

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.

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.

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

Write your first selection, discussion of importance and

Site: https://realpython.com/

#### Scenario 1 - Usability

This quality attribute is important since the site offers tutorials and other material to users, and being able to find the topic you are looking for can make a great impact on users wanting to sing up and even pay for other site services.

Source: User using a standard web browser.

Stimulus: User searches for a tutorial on a specific

Environment: The system is operating normally.

Response: How often users can find the tutorial

Response measure: 80% of the time user will be able to find the tutorial they are looking for.

Is the scenario content present?

Is the quality attribute clearly identified?

Is the quality attribute explanation of importance

Is the quality attribute explanation of importance clear?

Is the quality attribute explanation of importance

Is the quality attribute explanation of importance well-

written (clear language, proper grammar, correct

O pts

1 pt

O pts

O opts

O pts

1 pt

O <sub>0 pts</sub>

1 pt
Yes

 $\circ$  0 pts

1 pt

Is the scenario content clear?

O <sub>0 pts</sub> No

1 pt

Is the scenario content reasonable?

O opts

1 pt

proper grammar, correct spelling)?

O pts

1 pt

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

O pts

Does the scenario follow one of the formats discussed in

O opts

1 pt

Is the quality attribute clearly identified? Site: https://realpython.com/ O pts Scenario 2 - Performance No 1 pt This quality attribute is important because users usually do not want to wait for more than a few seconds to get search results, thus, being able to deliver results efficiently can make a great impact on users coming Is the quality attribute explanation of importance back to the site. present? Source: User using a standard web browser. O <sub>0 pts</sub> Stimulus: User searches for a tutorial on a specific No Python topic. 1 pt Environment: The system is operating normally and under low load. Internet latency is less than 100ms from the customer browser to the site. Is the quality attribute explanation of importance clear? Artifact: Search module O <sub>0 pts</sub> Response: Roundtrip time of user hitting enter in the search box to customer browser update showing the search results. Response measure: 98% of the time, under 2 seconds. Is the quality attribute explanation of importance O opts 1 pt Yes Is the quality attribute explanation of importance wellwritten (clear language, proper grammar, correct spelling)? 0 0 pts 1 pt Yes Is the scenario content present? O pts No 1 pt Is the scenario content clear? O opts 1 pt Is the scenario content reasonable? O 0 pts No 1 pt Is the scenario content well-written (clear language, proper grammar, correct spelling)? O opts 1 pt Does the scenario capture a measurement of the quality attribute identified? O <sub>0 pts</sub> 1 pt Does the scenario follow one of the formats discussed in the course? O pts 1 pt PROMPT RUBBIC Write your third selection, discussion of importance and scenario here. Is the quality attribute clearly identified? Site: https://realpython.com/ O pts Scenario 3 – Scalability 1 pt Yes This quality scenario is important since the site should be able to handle an increasing load without impact on the performance of the search functionality. Is the quality attribute explanation of importance Source: User using a standard web browser. Stimulus: User searches for a tutorial on a specific O pts Python topic.

Write your second selection, discussion of importance

and scenario here.

Response measure: 95% of the time response time should not grow more than 0.3 seconds

**Environment:** The system is operating under heavy

load (more than 500 concurrent users are searching). Internet latency is less than 100ms from customer

Response: Roundtrip time of user hitting enter in the search box to customer browser update showing the

browser to site. Artifact: Search module

Is the quality attribute explanation of importance

Is the quality attribute explanation of importance clear?

1 pt

O pts No

1 pt

