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
  2 min
- **Peer-graded Assignment:** Assessing Quality through Scenarios
  1h
- **Review Your Peers:** Assessing Quality through Scenarios

Security as an Architectural Concern

Peer-graded Assignment: Assessing Quality through Scenarios

Instructions My submission Discussions

Your fellow learner has submitted their assignment anonymously and your review will be anonymous to them. All names are still visible to course instructors.

Week2 - Peer Review Assignment

by Anonymous Learner
March 23, 2022

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PROMPT

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 lectures.

Write your first selection, discussion of importance and scenario here.

Website: www.youtube.com

1. Performance:

Since there are a lot of videos available on the database to choose form, it is important to design the architecture of this website such that users can search for and access videos quickly.

Scenario: Measure the time it takes for the website to load the videos corresponding to a keyword that a user searches.

RUBRIC

Is the quality attribute clearly identified?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance present?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance clear?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance 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

PROMPT

Write your second selection, discussion of importance and scenario here.

2. Useability:

There are many actitivies that a user can do on the website, such as: playing videos, leaving comments, searching for videos, looking up watch history, subscribing to channels. It is important to choose an architect that can provides users with ease of use.

Scenario: Organize a testing period for new features, in which users are allowed to try experiencing the new feature and provide feedbacks on usability.

RUBRIC

Is the quality attribute clearly identified?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance present?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance clear?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance 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

PROMPT

Write your third selection, discussion of importance and scenario here.

3. Security:

Channels have paid subscriptions, which requires users to provide their personal information and payment methods. It is important to choose an architect that provides good security for these information.

Scenario: Hire security testers to evaluate the site's security

RUBRIC

Is the quality attribute clearly identified?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance present?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance clear?

- 0 pts
  No
- 1 pt
  Yes

Is the quality attribute explanation of importance 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

Comments

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

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