

Quality Attribute Specification Assignment

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1- You are working in company XYZ required you to develop ticketing system for Cinema, the owner of Cinema is focusing on two things:

Write scenarios for each requirement to get you client signature.

a. Security system for purchase ticket using Credit Cards.

Source : Valid credit card

Stimulus : A request to purchase ticket

Artifact : Ticketing System

Environment : Under Normal Operation

Response : Transaction is successful

Response Measure: Data is stored within 1 hour

b. The performance of booking tickets.

Source : User

Stimulus : User purchasing tickets

Artifact : Ticketing System

Environment : Under Normal Operation

Response : User obtain ticket

Response Measure: Latency of 6 seconds

2- You are working in governmental sector and your boss required you to develop architecture to remove the overhead of official stamping for the documents

without losing security. Propose a proper architecture tactic to achieve this feature.

A solution that can be implemented is decoupling user event capture from storage using a queue. This is to ensure overhead of trapping user events to be

imperceptible to users. To achieve this tactic, the system must allow user event to be queued after being trapped. Then, the user event will be returned to user

thread. The event will be read from the queue accordingly. This will ensure user will not be detained and trapped when making a request.

3- You are working in a starting company with limited budget and your boss required you suggest some tactics to reduce the maintainability cost of the software.

Propose three tactics for this objective.

Firstly, collaborate with other teams or external specialist. Through the participation of external specialists, we can accelerate your project until it is completed.

Adding new team members is always a source of new ideas and a chance to cover all the gaps within the internal team.

Secondly, never overdoing when adding improvements. It is better to keep the software simple but high functionality, or reuse and improvise existing softwares.

Thirdly, always start with a transparent development process. Transparent processes mean that we can easily manage, control, estimate, and analyze the working processes

to make the project more efficient, scalable, and successful. Involve all company levels in the process and ensure that everyone is moving in one direction.

When we do not have a precise plan for the end product, we may end up with a mess that will require high maintenance costs.

- Submit your answers at in your github host.
- We will pick up randomly 5 students next session to present their answers.