Quality Attribute Specification Assignment

- 1- You are working in company XYZ required you to develop ticketing system for Cinema, the owner of Cinema is focusing on two things:
 - a. Security system for purchase ticket using Credit Cards.
 - b. The performance of booking tickets.

Write scenarios for each requirement to get you client signature.

Source Stimulus Aritifact Znvironment Response Response Measure

A. Security Users Making payment System Phyment made prevent the with in average failure and show latency of 3 the warmbry seconds

B. performance Users I ritiate Transaction System Normal Operation Transaction are with average processed Latency of 5 sec.

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.

Security Goal: fo resist & detect attacks, recovering from attacks

Resisting Attacks Maintain data confidentiality

Maintain integrity

Unit exposure

Unit access

Detecting Affacts I Anthusion detection

Recovering from attacks

Restoraction — See availability

Lidentification — Audit trail

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.

use proporate architecture style and pattern

keep detailed reports

Develop according to standards

Resource demand { Increase computation efficiency Reduce computational overhead normage event voite control frequency of sampling

Resource management { Introduce concurrency maintain multiple complex Ancrease available resources

Resource orathertion > Scheduling policy Develop according to standard Modifiability

Localize changes

Cimit possible options

Abstract common services

Semantic coherence

Prevention of ripple

efteet

Prevention of ripple

efteet

Contiguration files

polymorphism

Component replacement Availability

Fault detation

Sheartheat

Zxception

recovery preparation S Voting
Active reclandancy
spare

recovery reintroduction
Shadon
Rollback

grevention

Shemoral form service

transactions
Process monitor