

Quality Attributes Scenario

Alcohol checking service

AVAILABILITY

Source of stimulus

External API

Stimulus

Connection is failed

Environment

Degraded operations

Artifact

Alcohol checking process

Response

Log the fault and be temporarily unavailable while repair is being effected

Response measure

Time to detect the fault is lesser than 500 milliseconds, the system can be unavailable for an undefined period of time

MODIFIABILITY

Source of stimulus

Developer

Stimulus

Wishes to modify HTTP server to another protocol server

Environment

Design time

Artifact

Code

Response

Makes modification without affecting other functionality

Response measure

Only one class (HTTP controller) is changed

PERFORMANCE

Source of stimulus

Inventory managers

Stimulus

Periodically check alcohol via special devices

Environment

Normal operations

Artifact

System

Response

Checking result is available

Response measure

With an average latency of 2 seconds

SECURITY

Source of stimulus

Inventory managers

Stimulus

Periodically check alcohol via special devices

Environment

Normal operations

Artifact

System

Response

Checking result is available

Response measure

With an average latency of 2 seconds