Non Functional Requirement

Capacity Scalability Manageability Reliability Interoperability Maintainability Availability

Security

Usability Performance

Extensibility Recovery

It's all about flexibility

Performance

Responsiveness of application

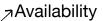
Attributes Throughput Response Time

Ability to handle an increase in the workload

Throughput Storage Growth Requirement

Attributes

Vertical - Adding More Resources
Horizontal - Adding more Nodes



Availability is measured as the percentage of total application downtime over a defined time period.

Attributes

Availability, Location of Operation, Recoverability, Resilience

¬Capacity

A factor of scalability, which measures how storage hardware would increase with time

Attributes

Throughput Volume of data with time Year and year Growth (users, processing, storage)

*¬*Security

Security is the ability of an application to avoid malicious incidences and events outside of the designed system usage, and prevent disclosure or loss of information.

Attributes

Authentication, Authorisation, Encryption, Data Confidentiality, Compliance

→ Maintainability

ability to go through modifications and updates

Attributes

Design & Coding Standard Flexiability & Release Support

→ Manageability

Manageability is the ease with which the administrators can manage the application, through useful instrumentation exposed for monitoring

Attributes

Total Traceability of System with tracelds Dashboard to monitor metrics & KPIs Events & Alerts in case of unexpected behaviour

→ Reliability

Reliability is the ability of the application to maintain its integrity and veracity over a time span and also in the event of faults or exceptions.

Attributes

Data, Application & Information Integrity Fault Tapping, Handling Failures & Recovery

∠ Extensibility

Extensibility is the ability of a system to cater to <u>future</u> changes through <u>flexible</u> architecture, design, or implementation.

Attributes

Handle new information types
Manage new or changed business entities
Consume or provide new feeds

Recovery

In the event of a natural calamity, how soon you can recover

Attributes

RTO (Recovery Time Objectives)

RPO (Recovery Point Objectives)

Restore Time

Backup Time

Backup Frequencies

Interoperateability

Ability to exchange information and communicate with internal and external applications and sustem

Compatability with

Shared application, 3P application, Different OS and hardware platforms.

Achieved via

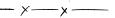
Publishing Interface (Documentation) Loosely couples with external system

→ Usability

Ability to measure consistency and aesthetics in the user interface

Atributes

Look & Feel Location & i18



Summarised By

Book Credit

Mastering Non Functional Requirement

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