

## The Two Types of Requirements

Functional

What System Should Do

Non - Functional

What System Should Deal With

Performance

Load

Data volume

Concurrent users

SLA

## 5. Working with System Requirement

### NFR

Performance

Always talk in Numbers

Rule of Thumb

Latency 📄

Time to Perform Task

Throughput

Tasks / Time Unit

Load

Work Without Crashing

Ex. API

Concurrent Users

Load V/s Throughput

Throughput: Defines time unit

Load: Defines system availability

Data volume

Data Accumulation Over Time

Dictate

Which Database

How to write Queries

Plan Ahead

Data on Day 1

Forecasted Data Growth

Concurrent users

Users using the system simultaneously

Similar to Load NFR

Important Difference

How many users will be using the system

**Not** how many users will be performing requests

10X Concurrent Request

The rule of thumb

SLA

99.99

Client 99.999

Silver

Gold

Platinum