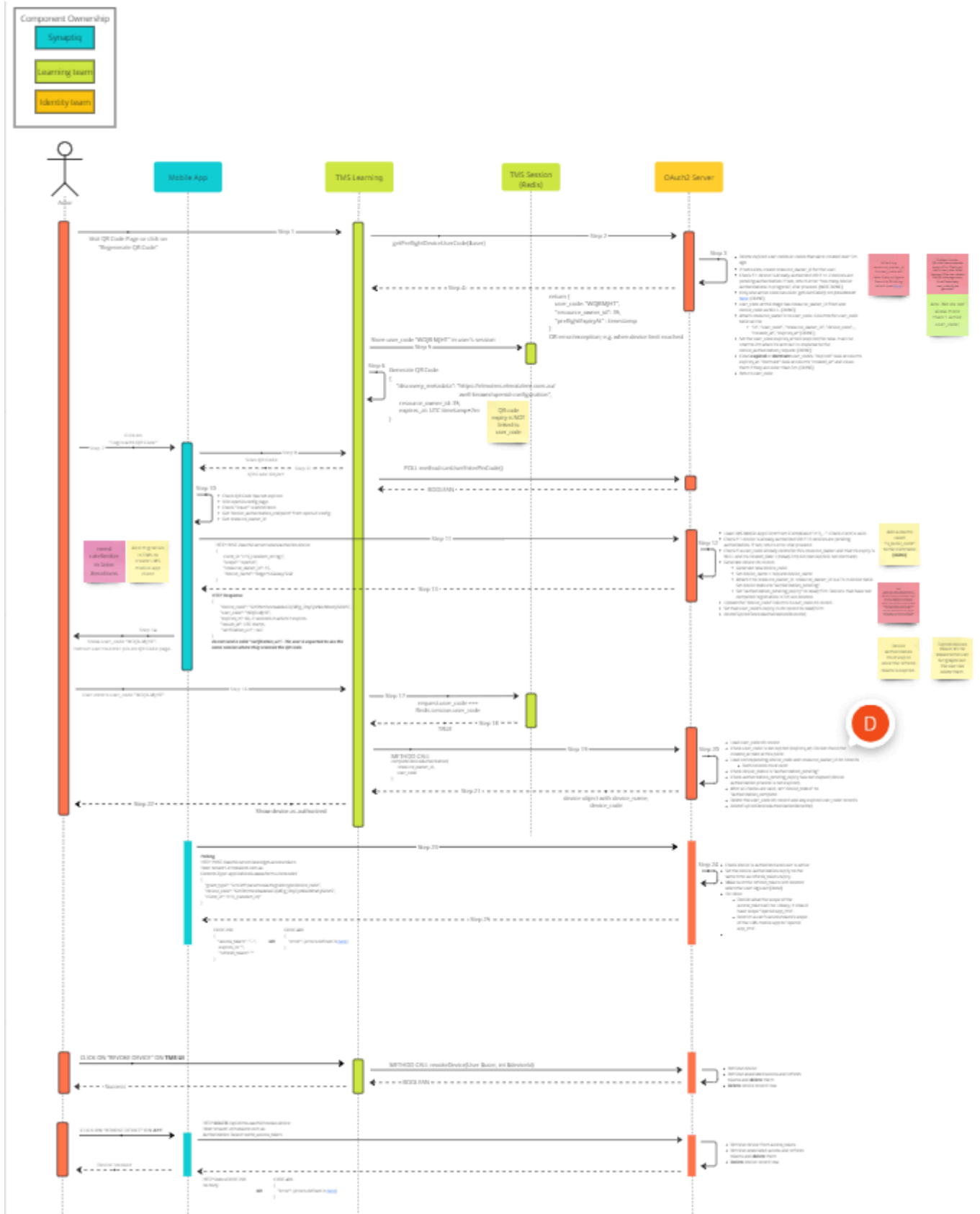




# Initiative: Upgrade ELMO's Identity Server to implement OAuth2 Device Authorization Flow ([here](#))

- Principal security architect and team lead
- Mobile app login via QR Code
- Implemented IETF specs
- Improved upon existing specs to make the authorization flow more secure
- Implemented CI/CD and automated security scanning



**2022-23**

**Initiative: ELMO Integrations Platform**

- Principal architect for the entire platform
- Built reusable and scalable integrations platform between ELMO and third-party vendors
- Built ELMO's public API architecture and infrastructure. Sample User API [here](#).

**Initiative: Build an effectivity system that can be attached to data**

1. Principal architect
2. Worked on [temporal patterns](#) and date [effectivity](#) systems.

**2021-22**

**Initiative: Worked on architectural governance framework to govern onshore and offshore teams**

**Initiative: ELMO IAM**

- Principal architect on ELMO's Identity and Access Management System
- Support for ELMO systems to act as Identity providers and service providers
- OpenId Connect, OAuth 2.0, SAML and JWT authorization frameworks implemented
- Implemented System for Cross Domain Identity Management - SCIM

**Expert in:**

- **Integration Systems**
- **Identity and Access management systems**
- **Single and multi-tenanted architectures**
- **Maintaining transactional consistencies in distributed systems**
- **Detecting bottle-necks and scaling systems**
- **Evolutionary architecture**
- **Building modular monoliths and breaking down monoliths into microservices**
- **Domain Driven Design practices. Event storming, tactical and strategic design**

**Some of my publications (see next page):**

- **API Standards**
- **Load-testing for goodput**
- **Right-sizing your service areas - a microservice guide**

# API Standards



Owned by Faraz Ali Zuberi \*\*\*

Last updated: May 03, 2024 • 38 min read • 114 people viewed • Request approval

- Overview
  - Problems Being Solved
  - Use Cases
- Concepts
  - Why REST
  - Resources and Domains
  - Reification
  - POST vs PUT
  - Postel's Law
  - Backward Compatibility
  - Expand-Contract Process
  - Your API security component
    - Authentication
    - Authorization
    - Avoid coupling your API's to an authorized user
- Standards
  - API Documentation
  - HTTP Verbs
  - Cross-Origin Requests
  - HTTP Status Codes
  - Empty vs Non-empty Bodies
  - Common Headers
  - Resource Naming
  - Property Types
    - Bool vs. Enum vs. String
  - Resource Identifiers
  - Versioning **DRAFT**
    - TL;DR on versioning
    - Types of versioning
      - Entity versioning
      - Format versioning
      - Version
      - Optional Custom Specifier
      - responseFormat
  - Content Format
  - API URL Domains
  - API Paths
  - Subresources
  - Distributed Resources
  - Linked Resources
  - Pagination
    - Query Parameters
    - Link Header
    - Response Payload
  - Country Specialization
  - Singular and Bulk Endpoints
    - Synchronous Bulk Operations
    - Asynchronous Bulk Operations
    - Idempotency for Bulk Operations
    - Atomicity for Bulk Operations
  - Error responses
    - Examples

# Load Testing and Planning for Goodput



Owned by Faraz Ali Zuberi \*\*\*

Last updated: Sep 20, 2023 • 24 min read • 14 people viewed • Request approval

**DRAFT**

- Purpose
- System Under Test
  - Dependent resources
- Endpoint selection
  - Case against isolated SUTs
- Load testing tools
- Calculating peak and average load
  - Calculating peakLoadRPS
  - Calculating averageLoadRPS
- SLOs
  - Latency (p95)
  - Availability
  - Goodput
  - Burst Limit and Capacity
  - Dealing with overload
- Calculating peak and average load
  - Calculating peakLoadRPS
  - Calculating averageLoadRPS
- Calculating number of replicas
- Calculating podGoodputRPS
  - Factors affecting podGoodputRPS
  - Before you start load testing
  - Load testing a single pod
- Back to calculating number of replicas
  - Calculating maxReplicas
  - Calculating minReplicas
- Load testing for peak load
  - Monitoring APM
  - Monitoring Grafana and Lens
  - Monitoring RDS
    - CPU Utilization
    - Memory
    - Connections
- If you want write-ups on below, please let me know
- Resources

# Right Sizing your Service Areas



Owned by Faraz Ali Zuberi ···

Last updated: Feb 01, 2023 · 12 min read · 56 people viewed · Request approval

## Status

RATIFIED

- [Status](#)
- [Business requirements](#)
- [Microservice granularity](#)
- [Coupling](#)
  - [Coupling metrics](#)
    - [Dependency weight](#)
    - [Semantic coupling](#)
    - [Structural coupling](#)
    - [Afferent coupling \(Ca\)](#)
    - [Efferent coupling \(Ce\)](#)
    - [Instability \(I\)](#)
    - [Coupling between microservices \(CBM\)](#)
    - [Implementation Coupling](#)
    - [Temporal Coupling](#)
    - [Deployment Coupling](#)
  - [Decoupling strategies](#)
  - [Vertical decomposition](#)
- [Cohesion](#)
- [Information Hiding](#)
- [Is SPA/BFF part of my service area?](#)
  - [Temporal Coupling with SSO](#)
- [Bringing it all together](#)
  - [So what is the right size?](#)
  - [Questions to ask before you build a new module](#)
- [Helpful links](#)