Ikenna's Capability Model (ICM) v0.04

A Capability Model for API Prouct Delivery







Capabilities

Design API

Use a design-first approach

Create API style guide

Model business capabilities

Define API versioning scheme

Create reusable API design components

Run API design reviews

Create API design templates

Maintain Internal API Process Docs

Document API review process steps

Define breaking change policy

Define version stability levels

Define deprecation process

Automate style guide controls

Run API linting

Run breaking change checks

Run API conformance tests

Run API doc prose linting

Enable CI/CD controls

Use pull-request based design and config reviews

Build API Culture

Run API community of practice

Run API design training

Develop API

Create shared API libraries

Create client SDKs

Create server stub code

Use API mocking

Create API sandboxes

Document API

Provide an internal API catalog & registry

Automate changelog generation

Use a documentation-first approach

Transform API definitions

Provide a consumer developer portal

Deploy API

Version control API definitions

Version, declarative API gateway configuration

Use GitOps-based gateway config deployments

Use GitOps-based doc publishing

Measure API performance

Monitor API product analytics

Monitor technical performance metrics

Outcomes

Reduced API review lead time

Reduced API design lead time

Reduced API consistency defects

Reduced development lead time

Improve API reference documentation conformance

Improve API product analytics

Reduced API config deployment lead time

Reduced API security vulnerabilities

Reduced API documentation defects

Reduced API misconfiguration defects

Reduce the number of API reviewers and QAs required

Improved API adoption

Value Impact

Improved commercial metrics

Improved developer experience

Less burnout and developer frustration