Module 7
SOA Analysis & Modeling Lab

Service Inventory
- boundary patterns*
  - Enterprise Inventory (116)
  - Domain Inventory (123)
- structure patterns*
  - Service Normalization (131)
  - Logic Centralization (136)
  - Service Layers (143)

Service Layers
- patterns*
  - Utility Abstraction
    - utility service model — corresponds to
  - Entity Abstraction
    - entity service model — corresponds to
  - Process Abstraction
    - corresponds to
      - task service model
      - orchestrated task service model
    - supported by
      - Service Composability (764)**
      - Capability Recomposition (526)*

SOA Project Roles
- service analyst
- service architect
- service custodian
- schema custodian
- policy custodian
- service registry custodian
- enterprise architect
- technical communications specialist
- SOA security specialist
- SOA governance specialist
- SOA quality assurance specialist
- enterprise design standards custodian (and auditor)

Primitive Service Definition Process
- involves
  - identify logic suitable for service encapsulation
  - define service contexts
  - group logic into services
  - further organize service logic into capabilities
- patterns*
  - Service Encapsulation (305)
  - Agnostic Context (312)
  - Non-Agnostic Context (319)
  - Agnostic Capability (324)
  - Capability Composition (521)
  - Capability Recomposition (526)

SOA Project Phases
- service inventory analysis
- service-oriented analysis
- service-oriented design (service contract)
- service logic design
- service development
- service testing
- service deployment & maintenance
- service discovery

Service Models
- entity service
- utility service
- task service
- orchestrated task service

Service Inventory Analysis
- perform service-oriented analysis
- define enterprise business models
- define technology infrastructure
- define service inventory blueprint

Services and Granularity
- levels
  - service granularity
  - capability granularity
  - data granularity
  - constraint granularity

Service-Oriented Analysis
- define analysis scope
- identify existing systems
- model candidate services
  - decompose business process
  - filter out steps not suitable for service encapsulation
  - identify agnostic service capabilities
  - identify process-specific logic
  - apply service-orientation principles
  - identify candidate service compositions
  - analyze processing requirements
  - identify utility service capability candidates
  - define utility service candidates
  - apply service-orientation principles
  - revise candidate service compositions
  - revise service capability candidate grouping

Service Decomposition
- patterns*
  - Service Decomposition (489)
  - Proxy Capability (497)
  - Decomposed Capability (504)
  - Distributed Capability (510)

Service Logic Types
- business
  - entity service model
  - task service model
- utility
  - utility service model
- agnostic
  - entity service model
  - utility service model
- non-agnostic
  - task service model

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Official Mind Map Supplement
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* Numbers in parenthesis are page references from "SOA Design Patterns".
** Numbers in parenthesis are page references from "SOA Principles of Service Design".

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