Module 10
Advanced Web-Based Service Technology

REST and HTTP

- **REST Constraints**
  - client-server
  - stateless
  - cache
  - interface / uniform contract
  - layered system
  - code-on-demand
- **Hypermedia**
  - can be leveraged to — create relationships between resources
  - can be used to — dynamically hyperlink resources via HTTP messages
  - enables — runtime discovery of new resources or services by service consumers
- **Late Binding**
  - is the result of — service consumers binding to resource identifiers at runtime
  - avoids — direct coupling to the service contract
  - can be the result of using — hypermedia
- **REST Service Contract**
  - service capability — is comprised of
    - method
    - resource identifier
    - media type
  - encapsulates
    - functional context
    - related service capabilities
- **Uniform Contract** — is comprised of
  - resource identifier syntax — common syntax — URI
  - methods — common protocol — HTTP
  - media types — common industry types — IANA
- **IANA Media Types**
  - text/plain
  - text/HTML
  - image
  - audio
  - video
  - multipart
  - message
  - application/xml
  - application/atom+ xml
  - application/javascript
  - application/json
- **HTTP Header Fields** — types
  - general
  - request
  - response
  - entity
- **HTTP Response Codes** — categories
  - 1xx: Informational
  - 2xx: Successful
  - 3xx: Redirection
  - 4xx: Client Error
  - 5xx: Server Error
- **Common HTTP Methods**
  - (idempotent) GET
  - (idempotent) PUT
  - (idempotent) DELETE
  - (non-idempotent) POST

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