

[Library Resources](#)

Quiz 6: Resource-Oriented Architecture Results for Yufu Liao

Score for this quiz: 14.29 out of 100 *

* Some questions not yet graded

Submitted Oct 17 at 8:55pm

This attempt took 12 minutes.

Move To... This element is a more accessible alternative to drag & drop reordering. Press Enter or Space to move this question.

Question 1

Not yet graded / 20 pts

What are the six concepts that form the foundation of representational state transfer (REST)?

Your Answer:

- | | |
|----------------------|---------------------|
| • Uniform Interface. | addressability |
| • Stateless. | resources |
| • Cacheable. | stateless of server |
| • Client-Server. | hyper-connectivity |
| • Layered System. | representation |
| • Code on Demand. | uniform interface |

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Question 2

14.29 / 20 pts

Match the semantics below with the corresponding HTTP operation.

Correct! 8775

Query a resource

GET

You Answered 8064

Create or replace a resource (idempotent)

POST

PUT

You Answered 9142

Extend or append to a resource (non-idempotent)

PUT

POST

Correct! 6248

Edit a resource (non-idempotent)

PATCH

Correct! 4596

Delete a resource

DELETE

Correct! 1297

Query the metadata for a resource

HEAD

Correct! 409

What operations does a resource support?

OPTIONS

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Question 3

Not yet graded / 20 pts

What are the four layers of the REST maturity model, in increasing order of maturity? For each layer, give an example of a popular Web service that realizes that maturity level.

Your Answer:

Level Zero: POX, Flickr API

Level One: Resources, SOAP Web Service

Level Two: Uniform Interface, Amazon Simple Storage Service

Level Three: Connectedness, Amazon S3

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Question 4

Not yet graded / 20 pts

What are the four principles of resource-oriented architecture?

Your Answer:

Principle #1: Loose Coupling via Explicit State

Principle #2: Data Abstraction via Addressable Resources

Principle #3: Canonical Expression via a Uniform Interface

Principle #4: Workflow Logic as Hypermedia Networks

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Question 5

Not yet graded / 20 pts

For Web Linking (RFC 8288):

1. What are the four pieces of information that may be provided with a Web link?
2. What are the five predefined target attributes?
3. What are two additional target attributes suggested in the lecture material?

Your Answer:

1 What are the four pieces of information that may be provided with a Web link?

- Context URI
- Target URI
- Semantic relationship: role in the workflow
- Target attributes

2 What are the five predefined target attributes?

- rel: relationship (required)
- rev: reverse relationship
- anchor: context
- title:
- type:

3. What are two additional target attributes suggested in the lecture material?

Specifies data model, but not resource-specific type

Specifies relation, but not the HTTP operation

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Quiz Submissions

- [*This score is pending review, and may change Attempt 1: 14.29*](#)

Yufu Liao has no attempts left

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