

Instructions



How is it going ? Do you have problems with practical tasks ? Any concerns with learning materials ?

no but not finished yet

Today's agenda

- Total Recall
- Spring Framework
- Quiz
- Questions

Total Recall



What do you remember from the previous workshop ?

crud ops

CONSTRAINTS

What is REST

0 

a protocol

0 

design pattern

5 

software architecture design constraints

How many constraints in REST

7 ✓



0 ✗

4

6

0 ✗

7

Name REST constraints

- Client-server architecture
- Statelessness
- Cacheability
- Layered system
- Code on demand
- Uniform interface

Richardson Maturity Model

https://en.wikipedia.org/wiki/Richardson_Maturity_Model

REST is always using HTTP

4 ✓



0 ✗

yes

no

0 ✗

only HTTP 2.0

What HTTP method is used to save resource

3 ✓



0 ✗

GET

0 ✗

PUT

0 ✗

PATCH

0 ✗

DELETE

0 ✗

OPTIONS

0 ✗

HEAD


POST

What is idempotence?

5 



operation applied multiple times without changing the state

0 

applied multiple times everytime changes the state

Spring REST (ws-26)

Do you have questions \ uncertainties \ concerns on materials? (If no - it means all clear for you)

Practical tasks

Spring

practice...

discuss Http Patch, Pagination, HATEOAS

Continuous Quiz

How many levels in Richardson Maturity Model

6 ✓



1 ✗



0 ✗

3

4

5

What is HATEOAS ?

3



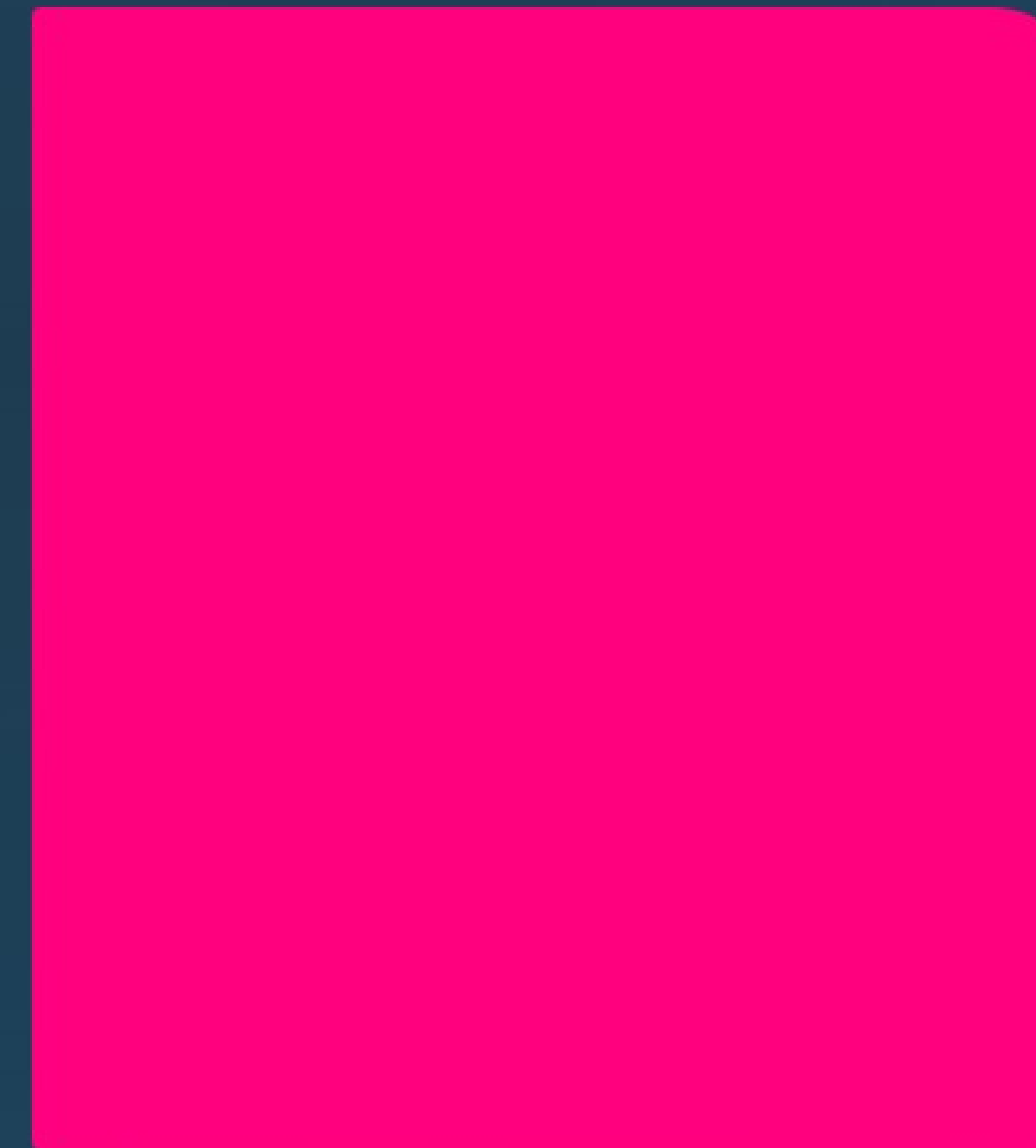
A) Hypermedia As The Enabler of Application Software

0



B) Hypertext Application Transfer Execution Over API Services

5



C) Hypermedia As The Engine Of Application State

0



D) Hypertext Advanced Technology Engine Over App Serialization

How can be used RepresentationModelAssembler?

no idea

RepresentationModelAssembler

simplifies mapping domain objects to
hypermedia representations like
RepresentationModel, enabling HATEOAS
support in REST APIs efficiently.

How many generics can be specified in EntityModel

5 ✓

2 ✗

0 ✗

3

2

1

How to add self-location to header

0 ✓

use ResponseEntity class

0 ✗

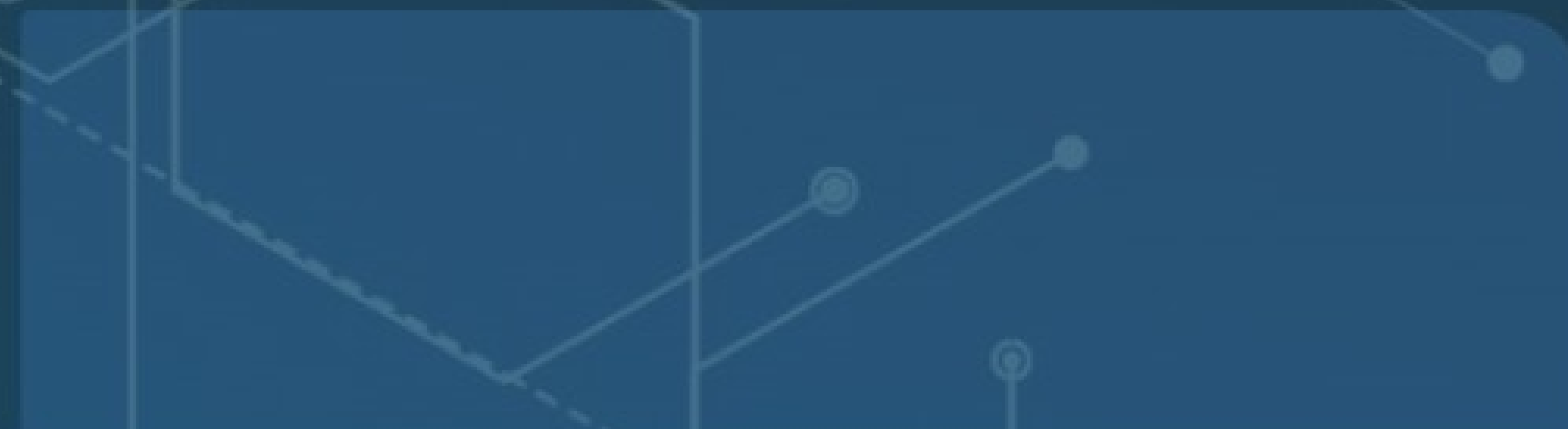
Use general hateoas

Do we need @ResponseBody annotation in "@RestController"

7 ✓



2 ✗



yes


no

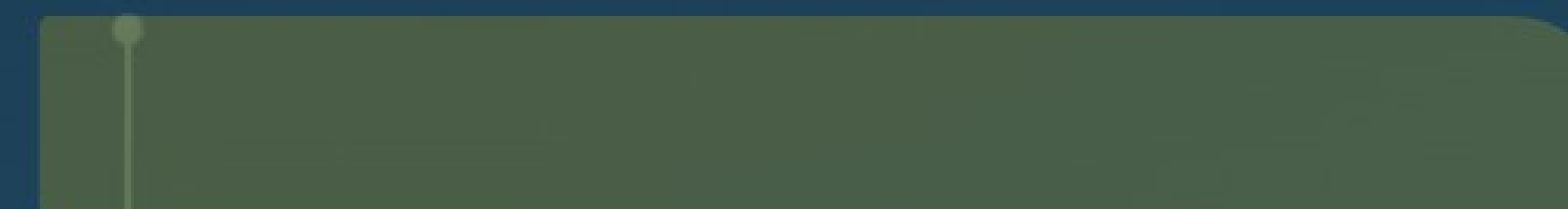
What for @ResponseStatus annotation?

8 



set default response status code

1 



set response status strategy

@PathVariable vs @RequestParam

for accessing query

Use @PathVariable
when the value is part of
the URL structure.

@PathVariable is
/users/1
@RequestParam is
/users?id=1

Page is ...

0 ✕

Interface for pagination
information like page size, number

4 ✕

Implementation of Pageable,
encapsulating page size, number

3 ✓

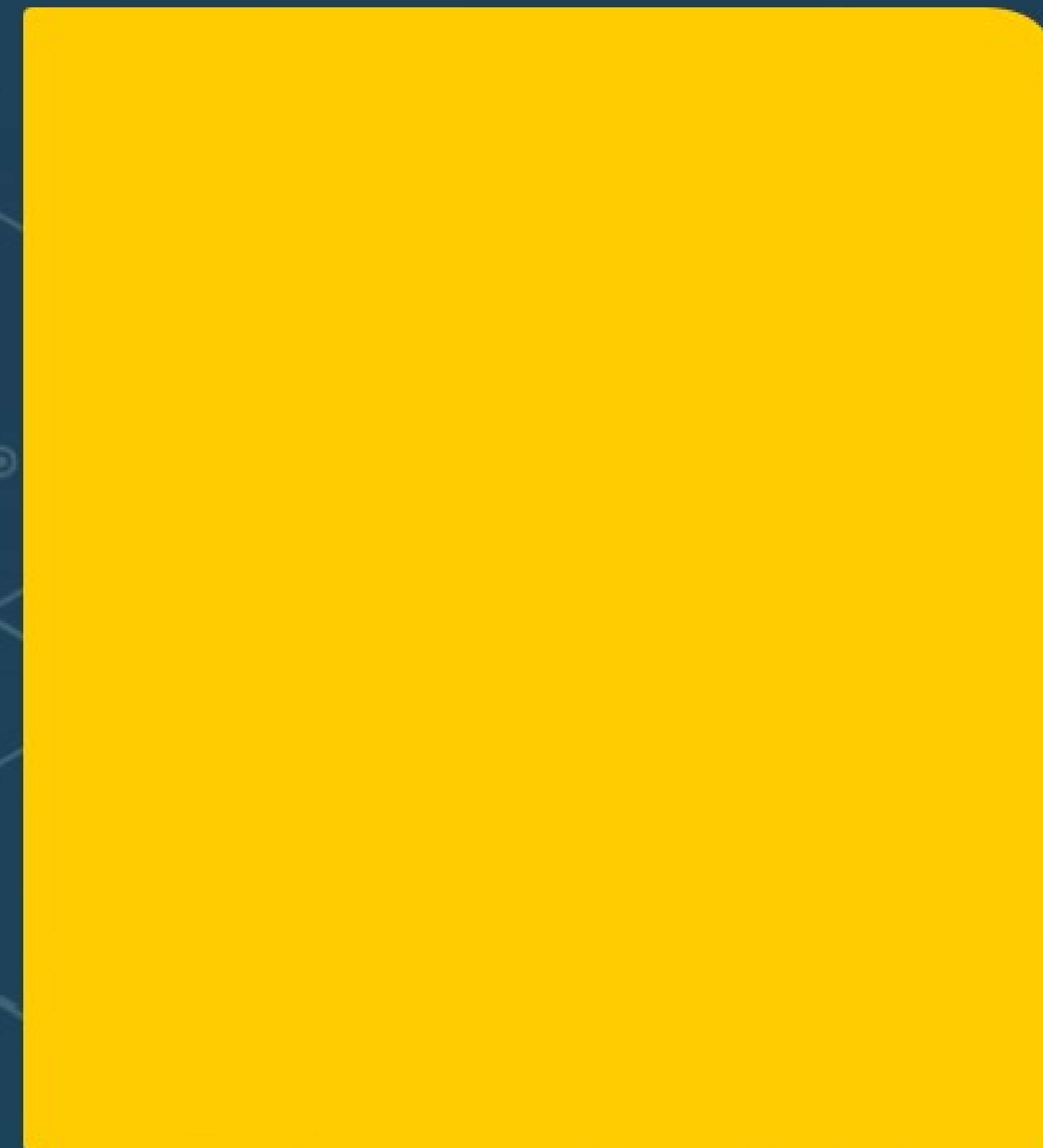
Interface representing paginated
data, includes content, metadata

1 ✕

Implementation of Page, stores
content and pagination data

PageRequest is ...

5 ✓



Implementation of Pageable,
encapsulating page size, number

2 ✗



Interface representing paginated
data, includes content, metadata

1 ✗



Implementation of Page, stores
content and pagination data

1 ✗



Interface for pagination
information like page size, number

Pageable is ...

3 ✓



Interface for pagination
information like page size, number

2 ✗



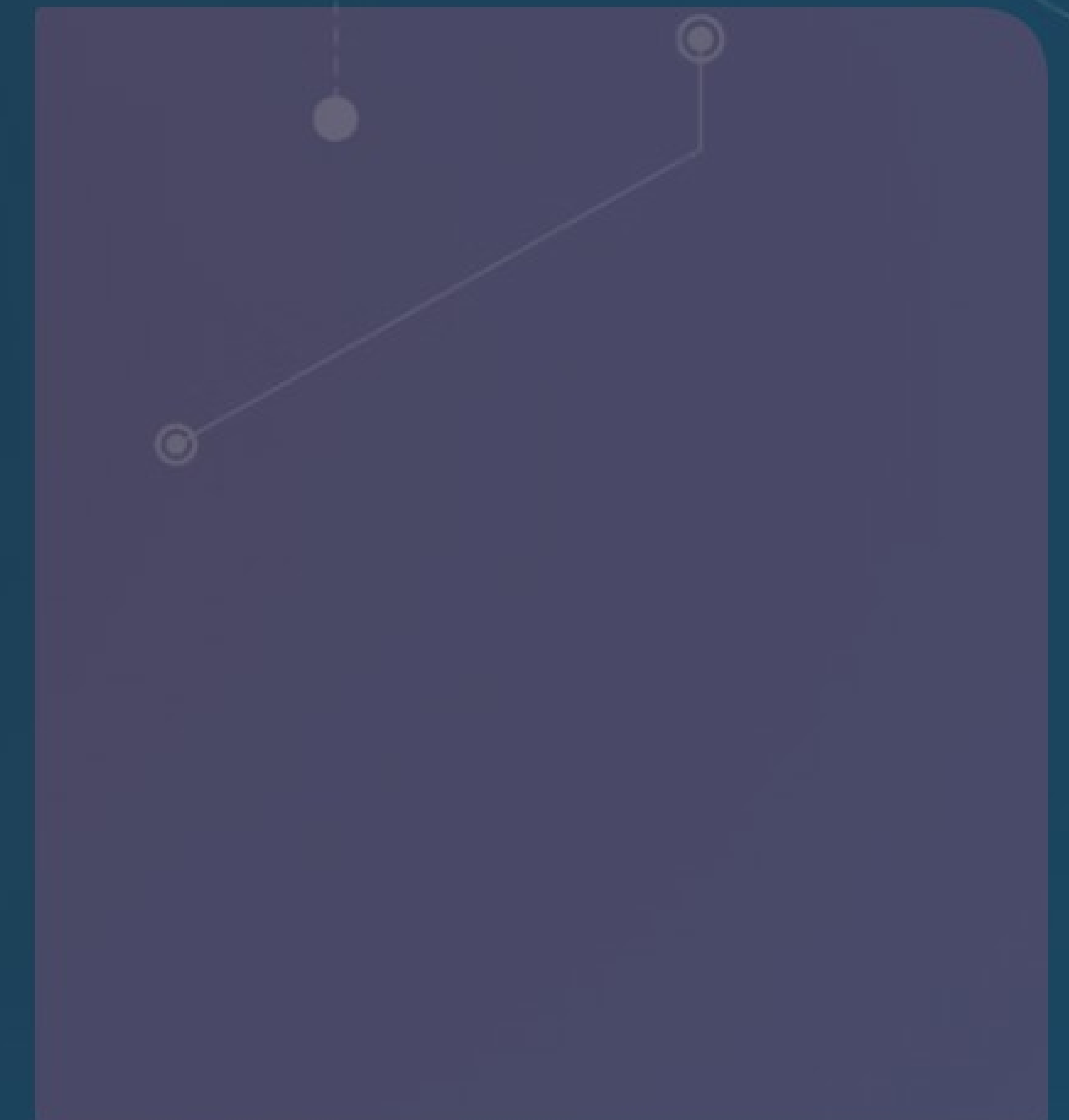
Implementation of Pageable,
encapsulating page size, number

0 ✗



Interface representing paginated
data, includes content, metadata

4 ✗



Implementation of Page, stores
content and pagination data

PageImpl is ...

0 ✕

Interface for pagination
information like page size, number

0 ✕

Implementation of Pageable,
encapsulating page size, number

0 ✕

Interface representing paginated
data, includes content, metadata

8 ✓



Implementation of Page, stores
content and pagination data

Quiz leaderboard



Next time: Spring REST

Questions?

