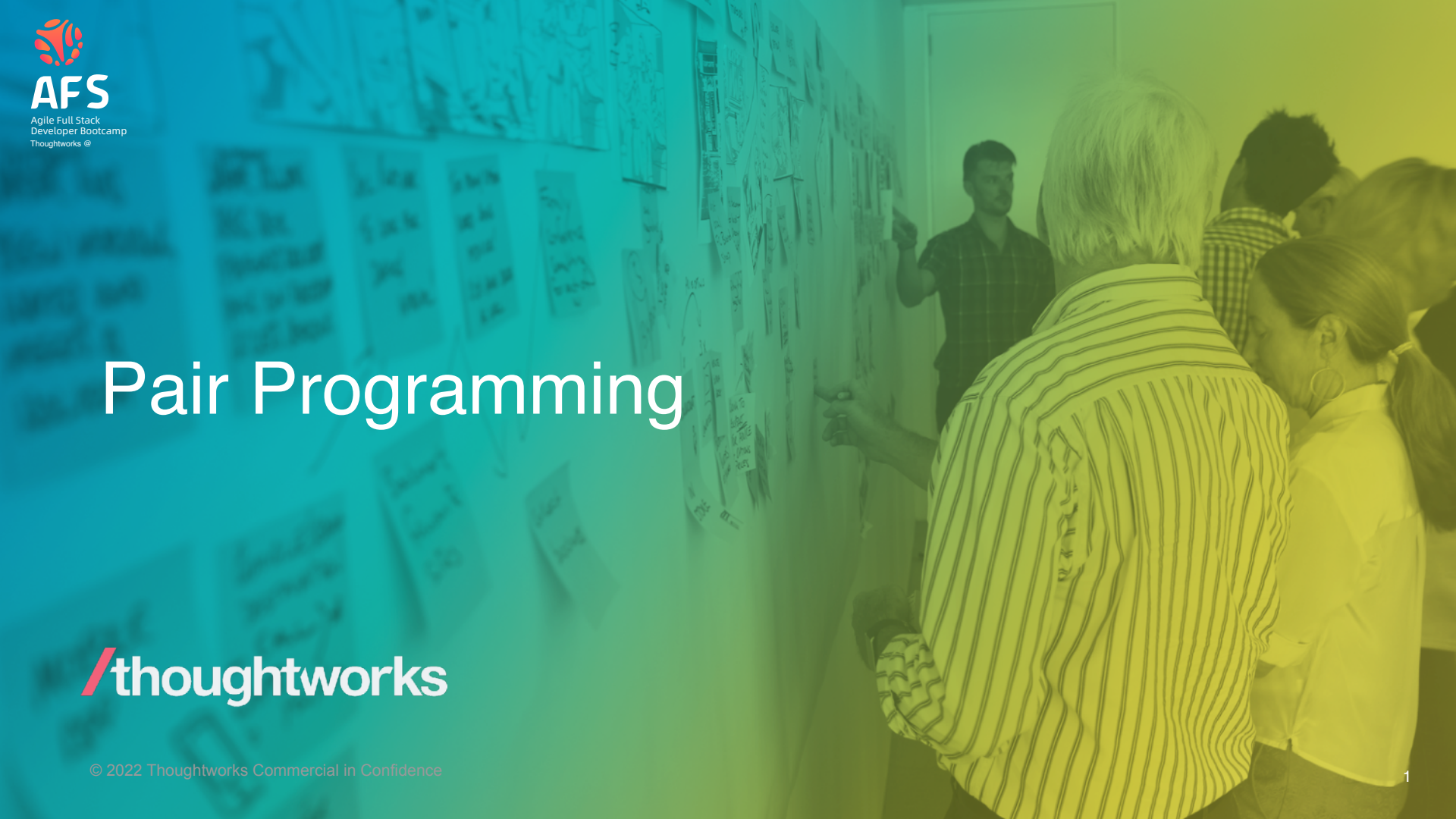
AFS
Agile Full Stack
Developer Bootcamp
Thoughtworks @

Pair Programming



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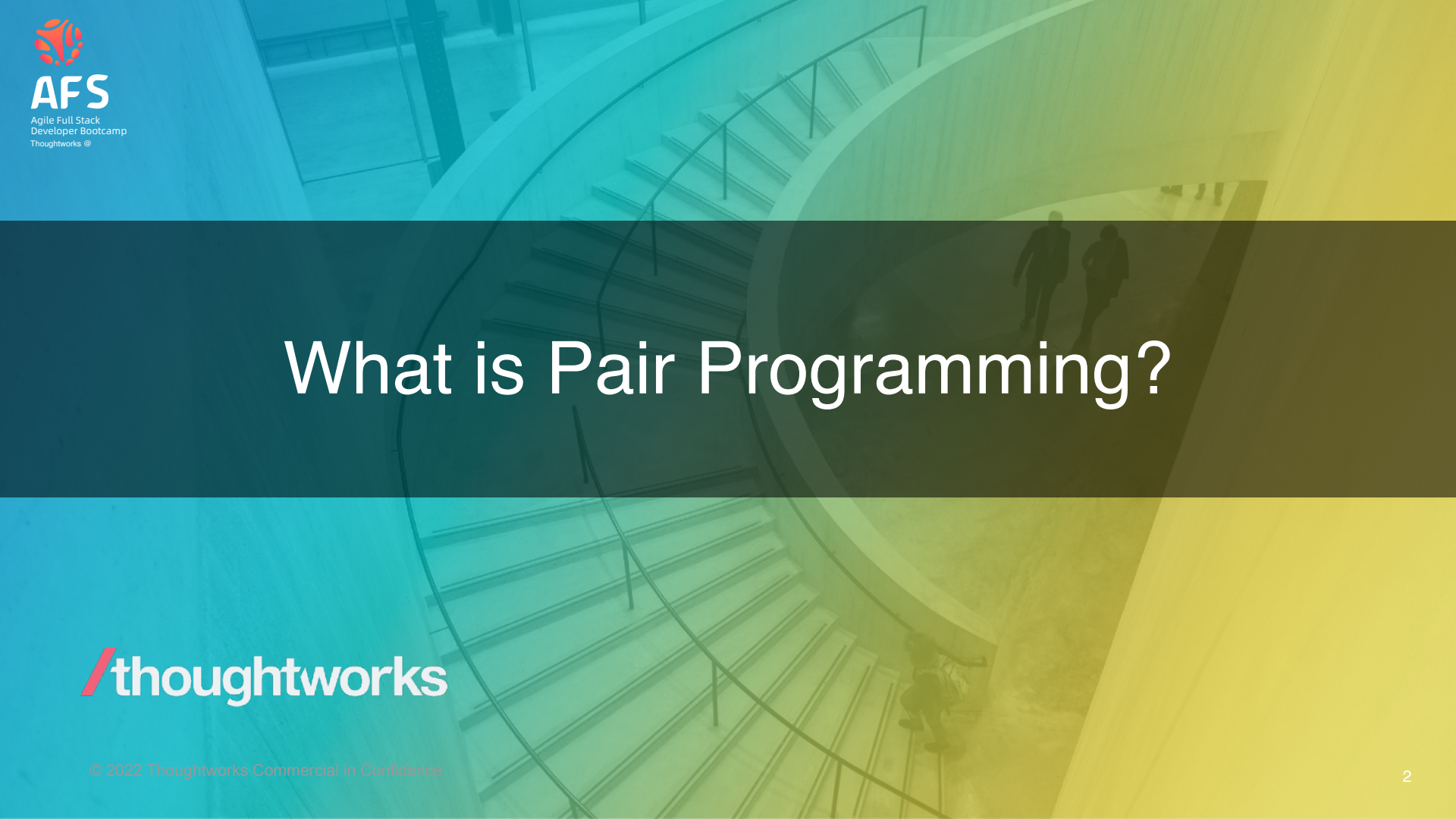
What is Pair Programming?



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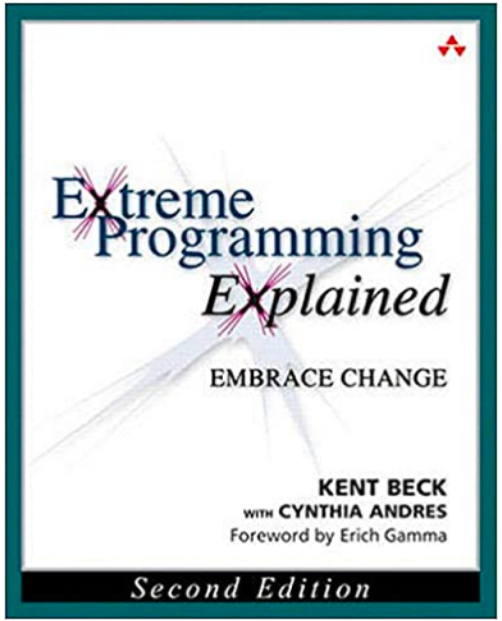
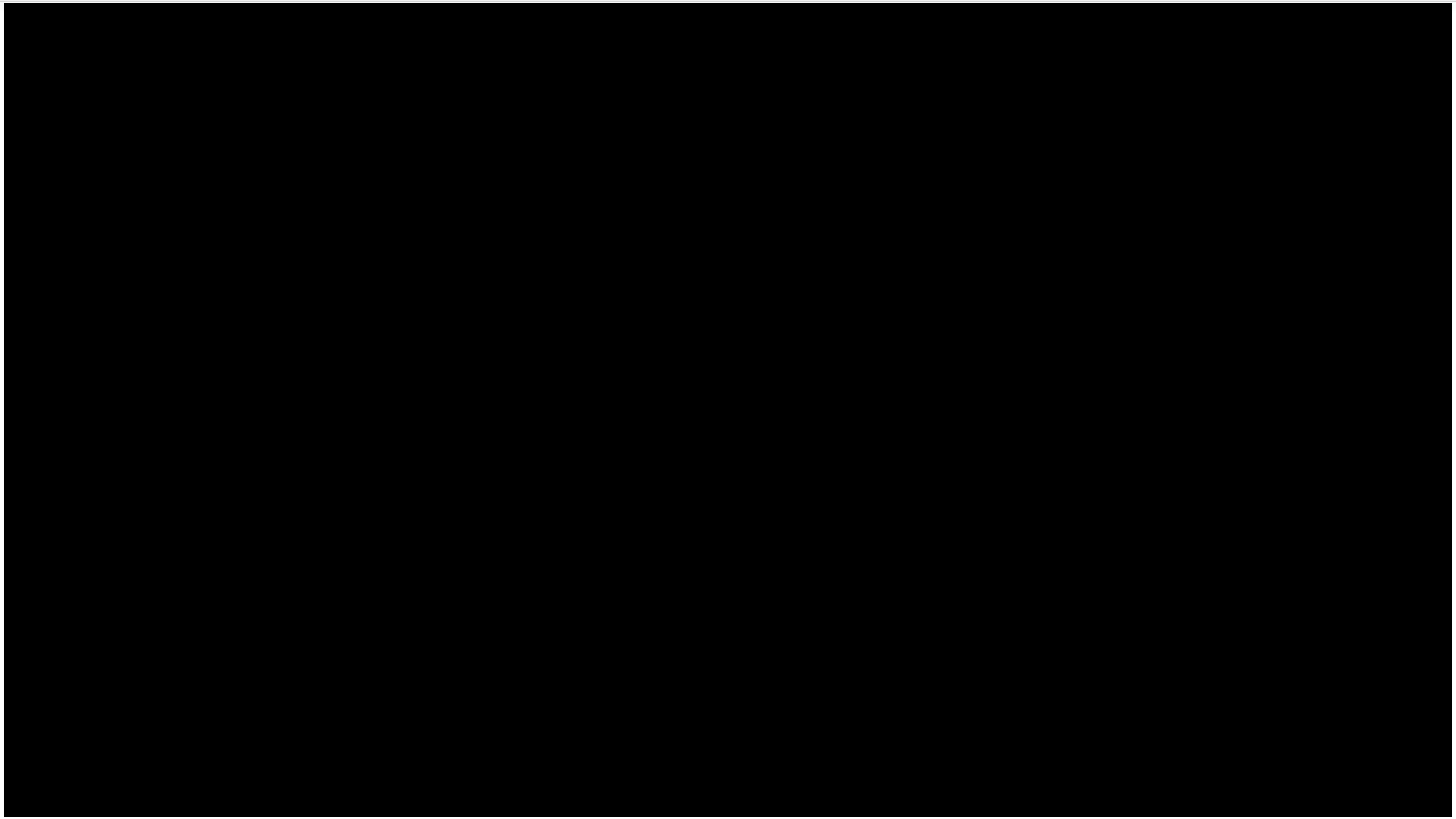
What is Pair Programming?



Pair Programming is proposed as one of the core practices of XP in the book

Pair programming is an agile software development technique in which two programmers work together at one workstation.

Pair Programming



Why Pair Programming?

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Why Pair Programming?

How to do Pair Programming?

Two Pair Programming styles

Some Reminders

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Spring Boot

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Spring Boot 101

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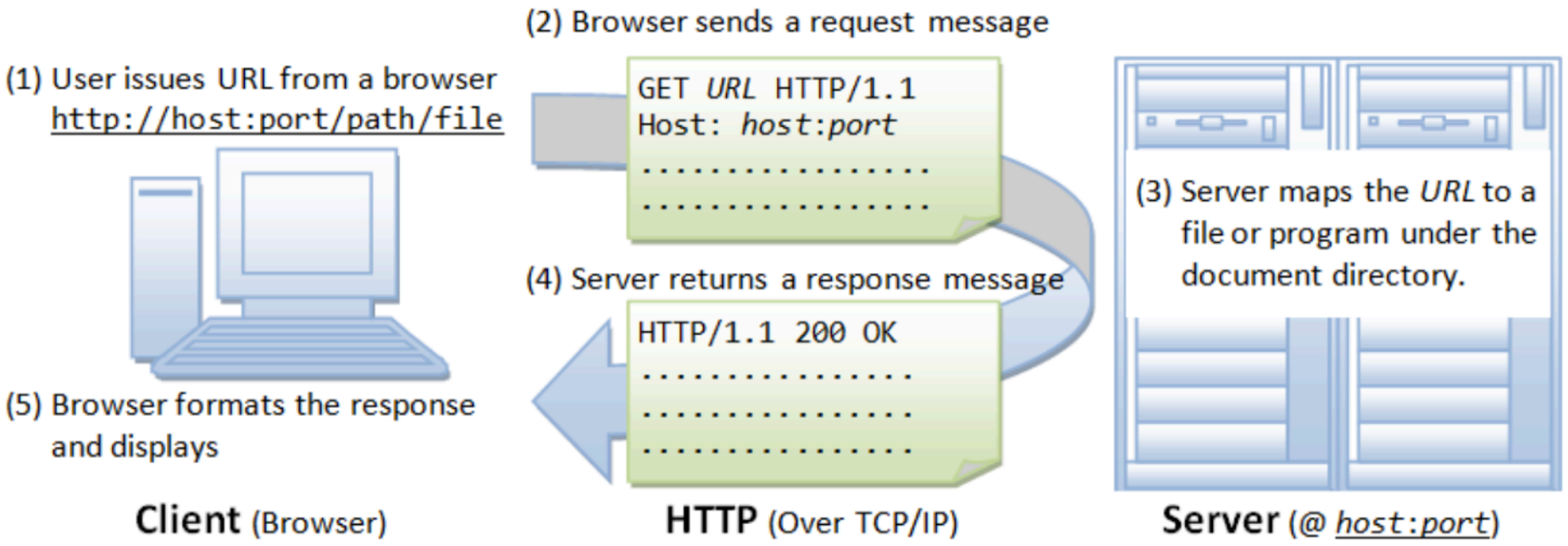
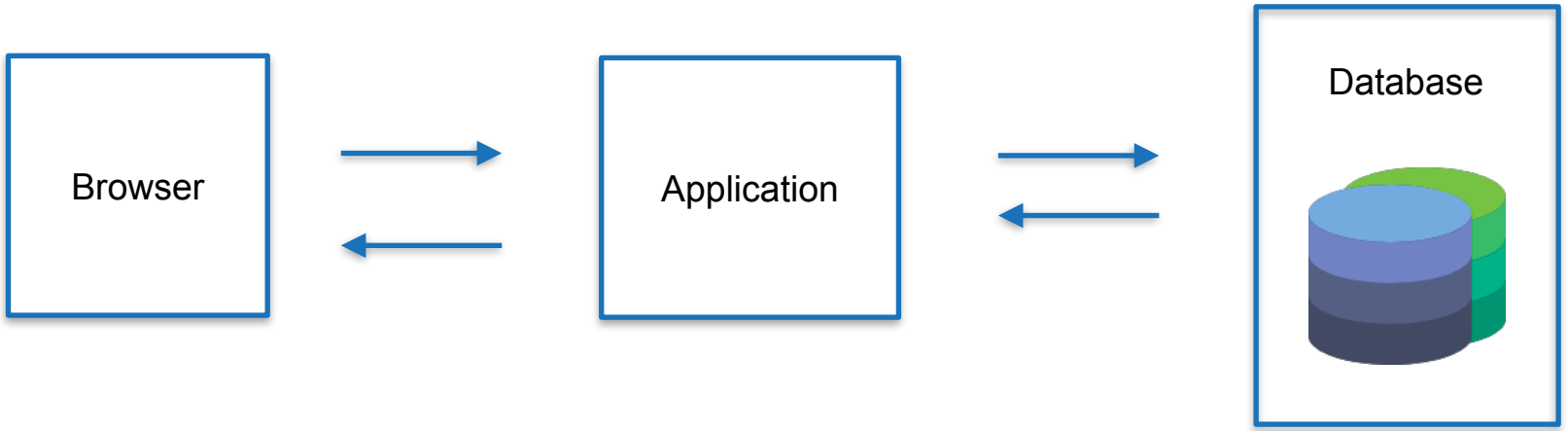
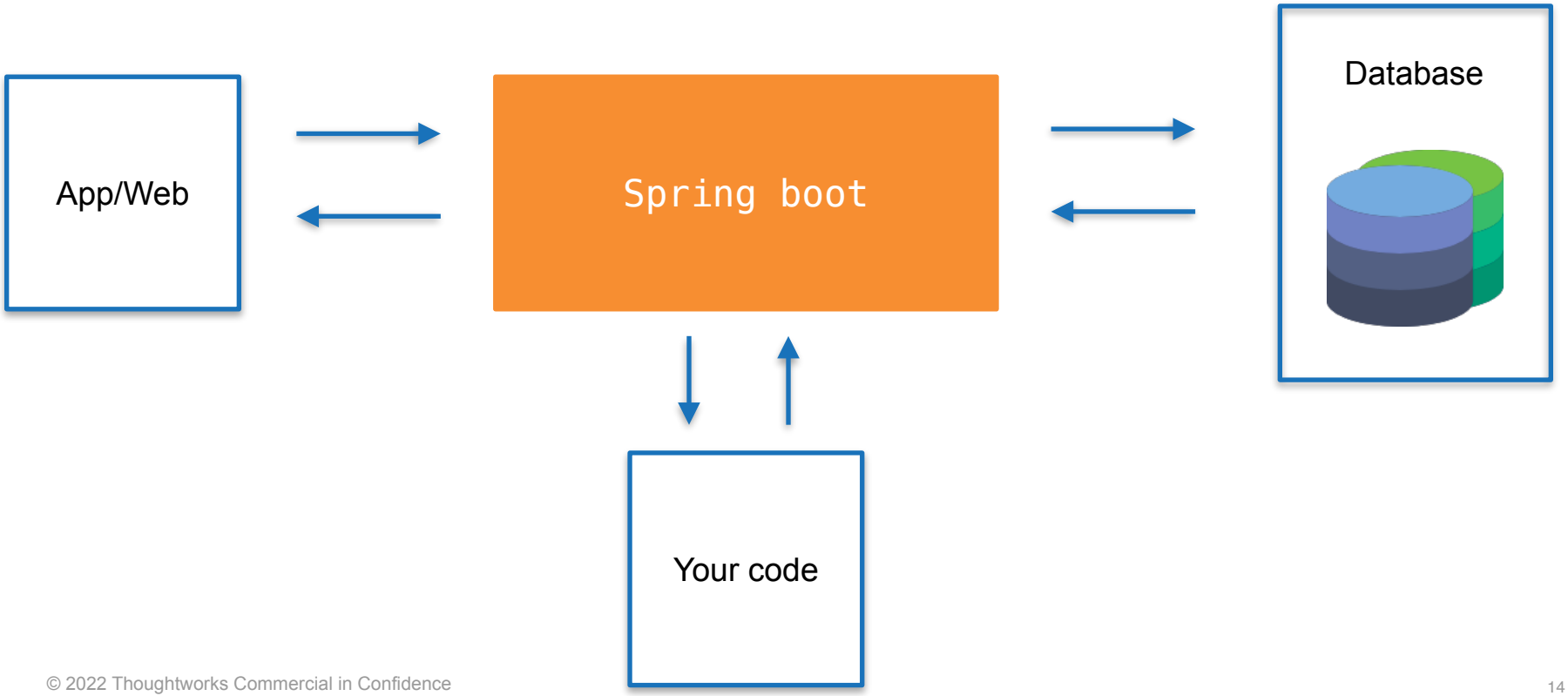
Web Development



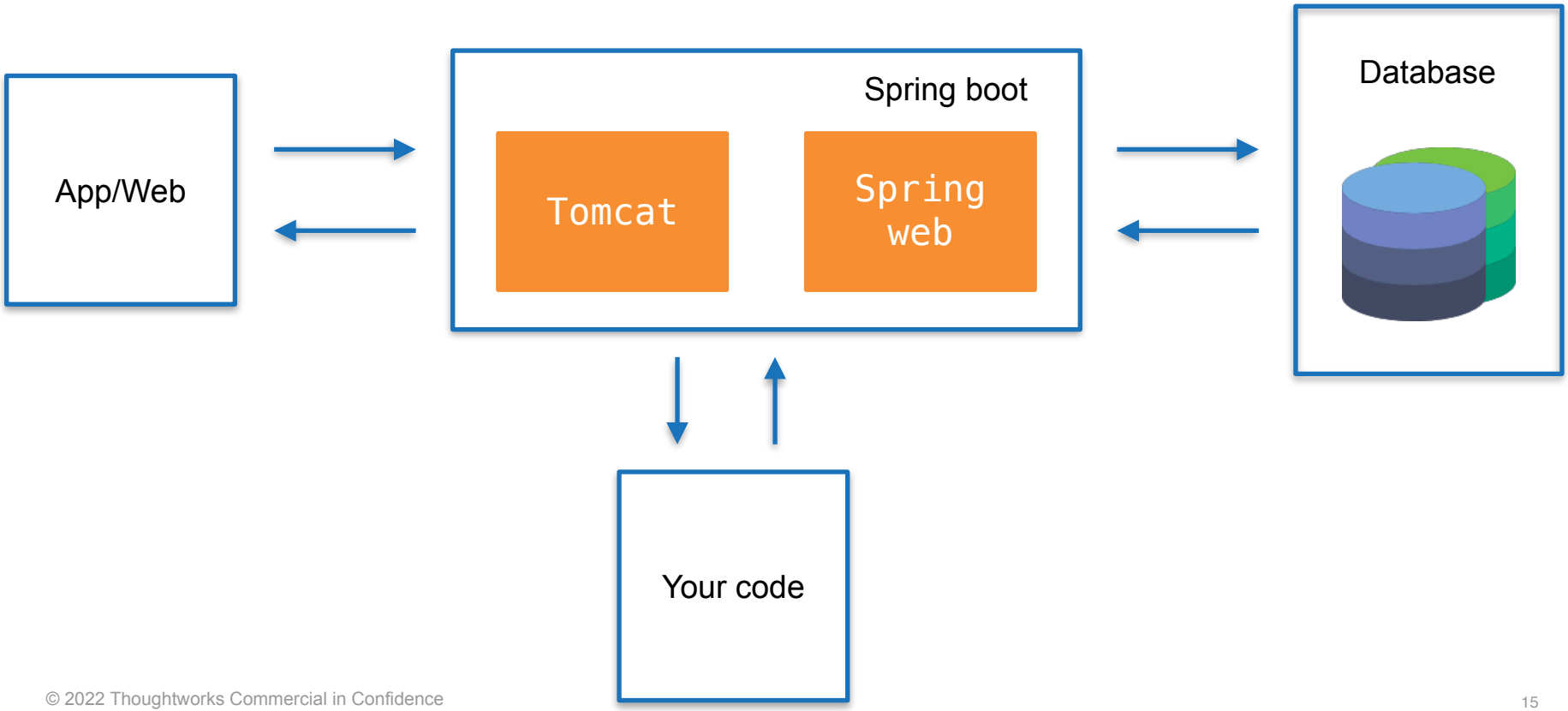
Web Development



Spring Boot is a box



Spring Boot is a box



Annotation is like the tag

@SpringBootApplication @RestController @RequestMapping ……

Spring Boot

https://start.spring.io/

Code Demo

Restful API Practice

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Employees API demo I

```
GET       /employees                    # get employee list
GET       /employees/1                  # get a specific employee by ID
GET       /employees?gender=male        # get all male employees
```

Employee:

```
{
    "id": 5,
    "name": "Lily",
    "age": 20,
    "gender": "Female",
    "salary": 8000
}
```

https://github.com/afs-public-202211/practice-springboot-employee

Employees API Practice

Pair Programming

Preparation: select one repo and add partner as collaborator

Round 1: Kick-off
Partner A download the repo and implements the 1st API and push.
Partner B plays as Observer and provide feedback.

Round 2: Take Turns
Partner B pull the latest change and implements the 2nd API and push.
Partner A plays as Observer and provide feedback.

Round 3: Take Turns
Partner A pull the latest change and implements the 3rd API and push.
Partner B plays as Observer and provide feedback.

…

After the class, Partner A sends the copy of the code to B and finish the homework separately.

Employees API Practice

Pair Programming

1	Alan	Jenny
2	Marie	Alvin
3	Thomas	Michael
	Heinrich	

4	Joyce	Vincent
5	Kelvin	Chris
6	Polly	Antony

Employees API demo II

```
GET       /employees                    # get employee list
GET       /employees/1                  # get a specific employee by ID
GET       /employees?gender=male        # get all male employees

POST      /employees                    # add an employee
                                        response status 201 created
PUT       /employees/1                  # update an employee age and salary
DELETE    /employees/1                  # delete an employee
                                        response status 204 no content
GET       /employees?page=1&pageSize=5  # Page query, page equals 1, pageSize equals 5
```

Employee:

```
{
    "id": 5,
    "name": "Lily",
    "age": 20,
    "gender": "Female",
    "salary": 8000
}
```

Company API

```
GET       /companies    #obtain company list with response of id, name

GET       /companies/1  #obtain a certain specific company with
response of id, name

GET       /companies/1/employees  # obtain list of all employee under
a certain specific company

GET       /companies?page=1&pageSize=5  #Page query, if page equals 1,
pageSize equals 5, it will return the data in company list from index
0 to index 4.

POST      /companies    #add a company

PUT       /companies/1  #update a company name

DELETE    /companies/1  # delete a company
```

Company:

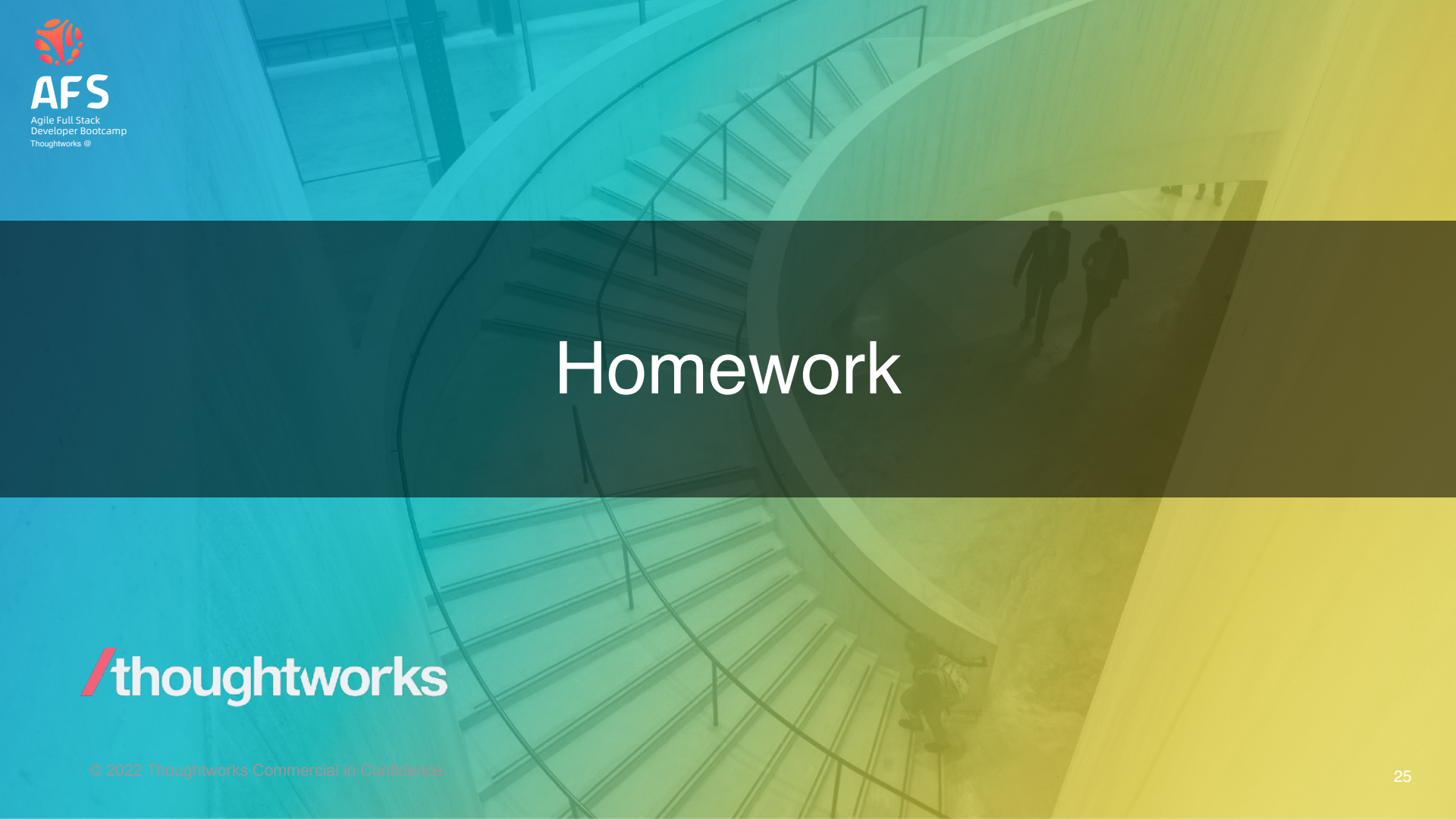
/companies/1

```
{
    "id": 1,
    "name": "spring"
}
```

/company/1/employees

```
[
   {
    "id": 5,
    "name": "Lily",
    "age": 20,
    "gender": "Female",
    "salary": 8000
   },
   …
]
```

Homework



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Homework

22:00pm

- **Finish spring boot practice**
    - **Implement all APIs for employee individually(fork the existing repo)**
- **Diary using ORID**

Requirement

1. Baby step commit with meaningful message
2. Format code before commit
3. Using meaningful names

Thank You !

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