

Spring - Feb 28

XmlRootElement

```
@XmlRootElement  
public class Movie {  
}
```

Client add “Accept” keywords to change the response format

Accept → application/xml

→ application/json

Log

What is different log levels we have?

Apache Log4j

Spring does not use Log4j, but hibernate uses Log4j

Spring uses logback

Kafka, Elasticsearch and so on, use log4j to print out log

The event: Java projects are hacked, cuz log4j

How can we tell client, how to use it, after application development completed?

Documentation

Swagger → generate documentation

After defining all APIs, Swagger can generate application automatically.

just a skeleton frame with machine likes syntax

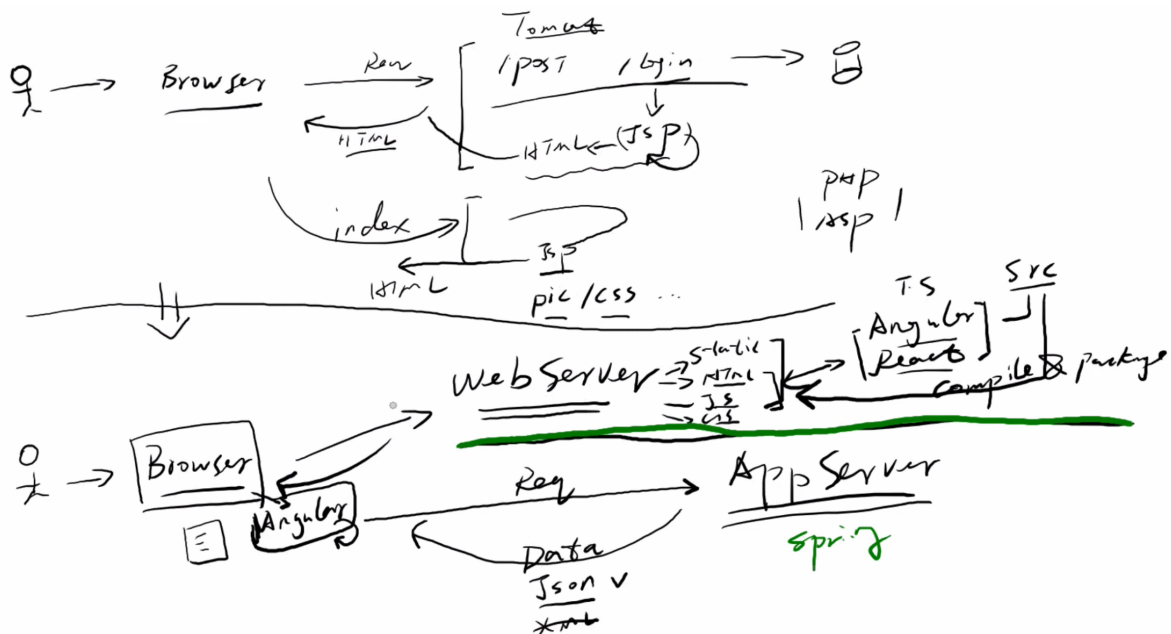
lots of companies create those contractor/APIs first, cuz different teams needs that

hybrid version (before 2012 popular)

front and back at same server.

Tomcat can do backend calculation and generate html to send to client

front-end back-end separate architecture



Angular

React(prefer)

Our application wants to consume other applications

Third-Party Api or external api

How to define which api belong to the external api?

usually: out of our control's api called external api (we dont know the source code)

model:

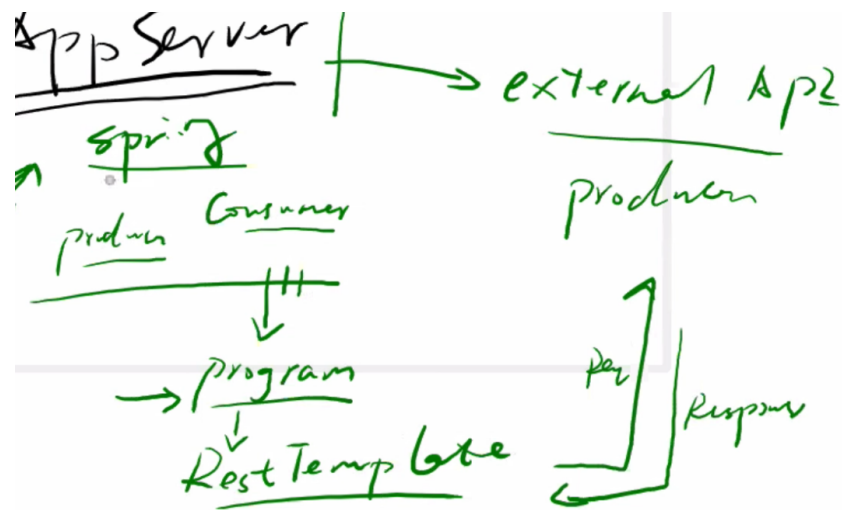
our internal api: consumer

external api: producer

angular: consumer

our internal api: producer

- RestTemplate class uses to send Http request in App Server



- Declarative
 - dont need to write code
 - openFeign client
 - annotation/signature → spring will automatically implement it