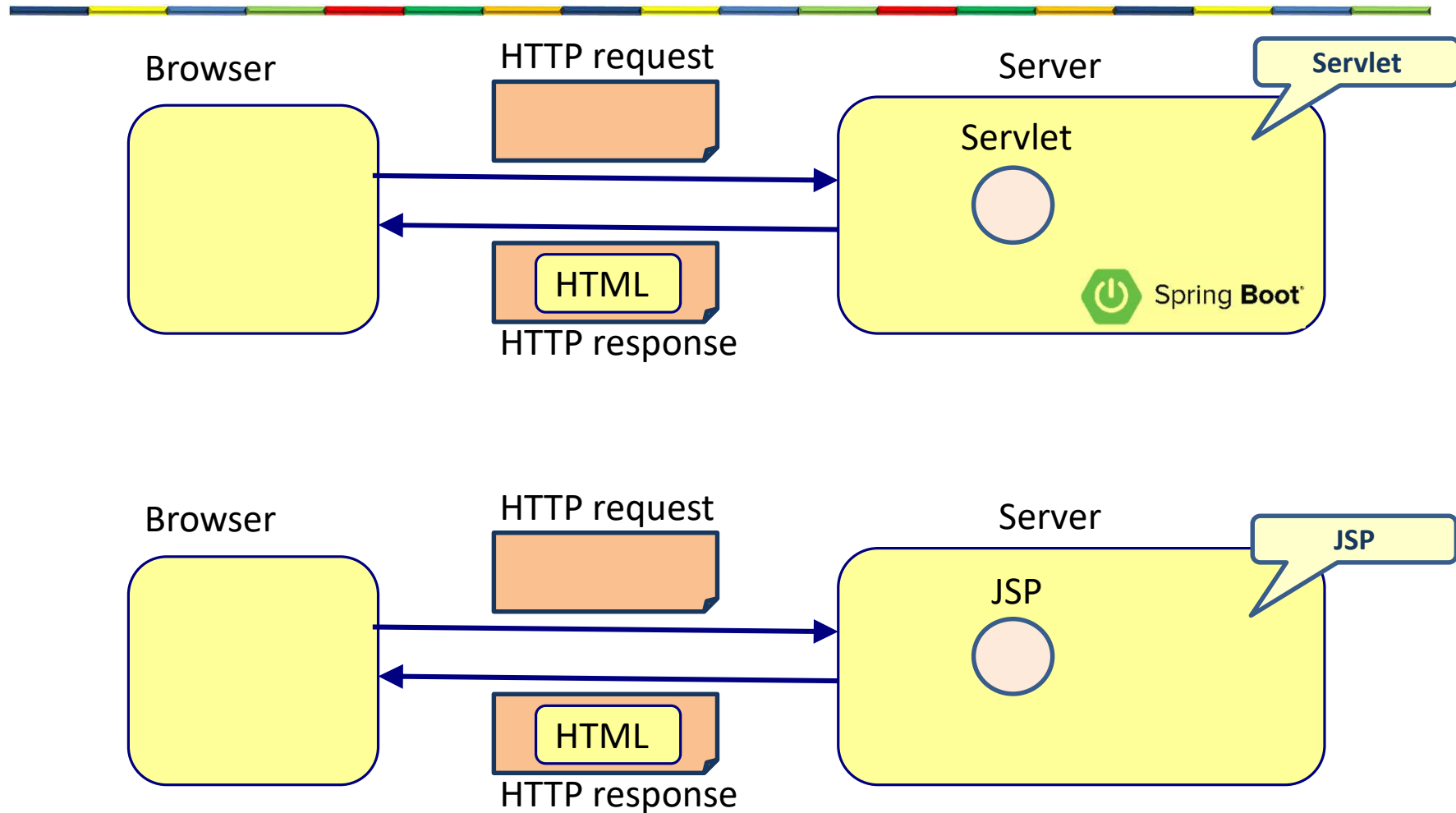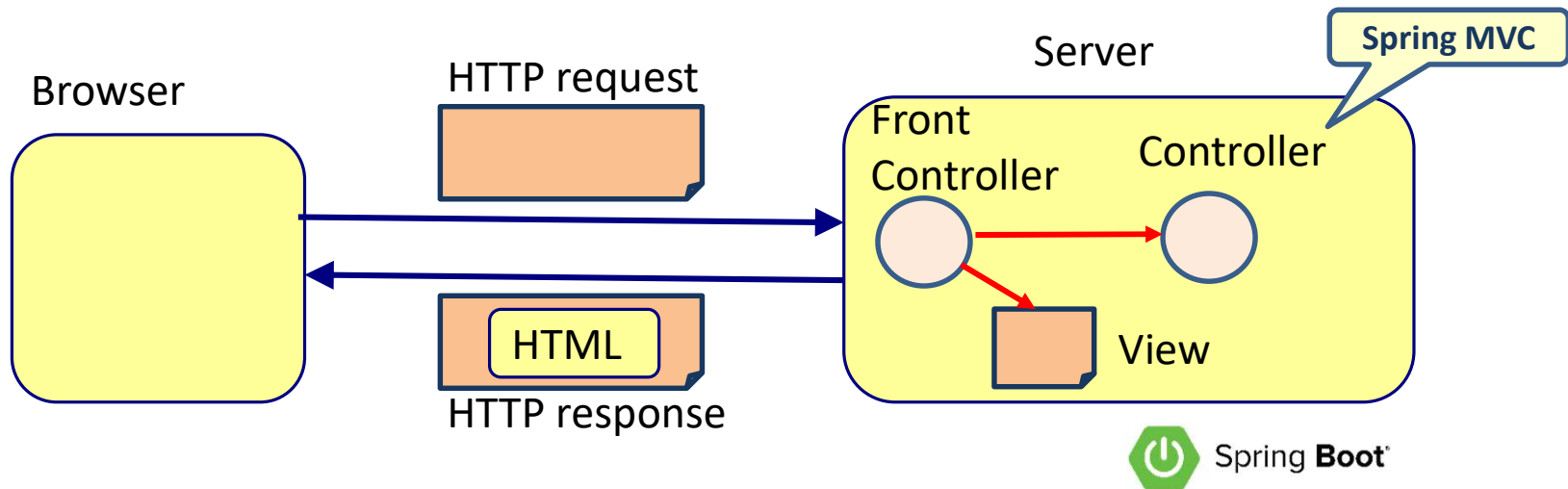# LESSON 1 COURSE INTRO

Lesson 1

Lesson 1

Model-view-controller

Browser   HTTP request   Server

Servlet

JavaBean

JSP

HTML

HTTP response

Spring **Boot**

Spring MVC

Browser   HTTP request   Server

Front Controller

Controller

View

HTML

HTTP response

Spring **Boot**
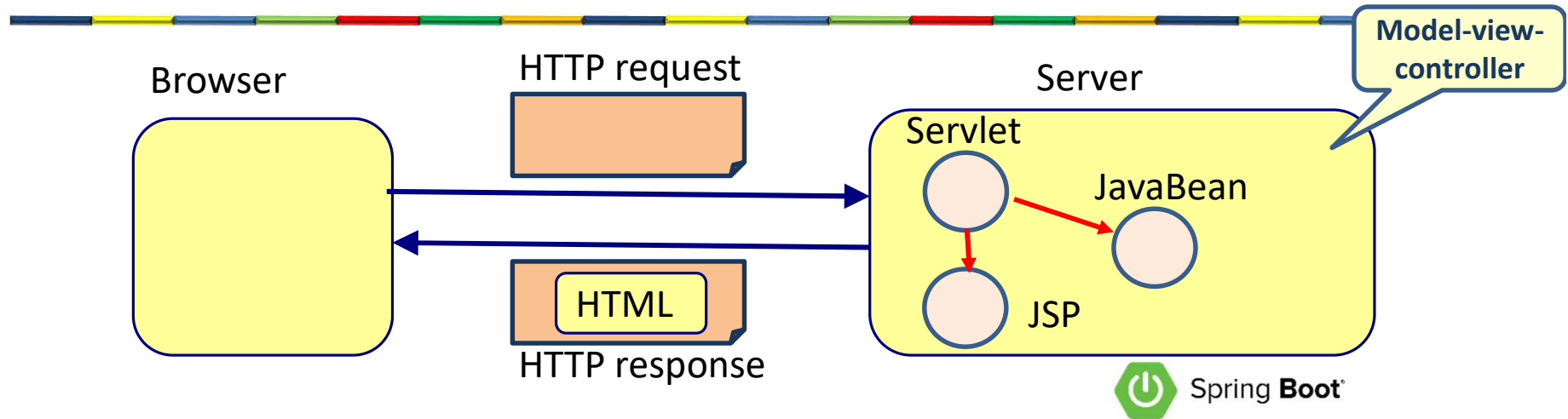
Lesson 2: Spring MVC

Lesson 3: REST

Client

HTTP request

JSON

API design

Server

Front Controller

Rest Controller

REST

Spring **Boot**

JSON

HTTP response

JUnit

HTTP request

JSON

Server

RestAssured

Front Controller

Rest Controller

Spring **Boot**

JSON

HTTP response

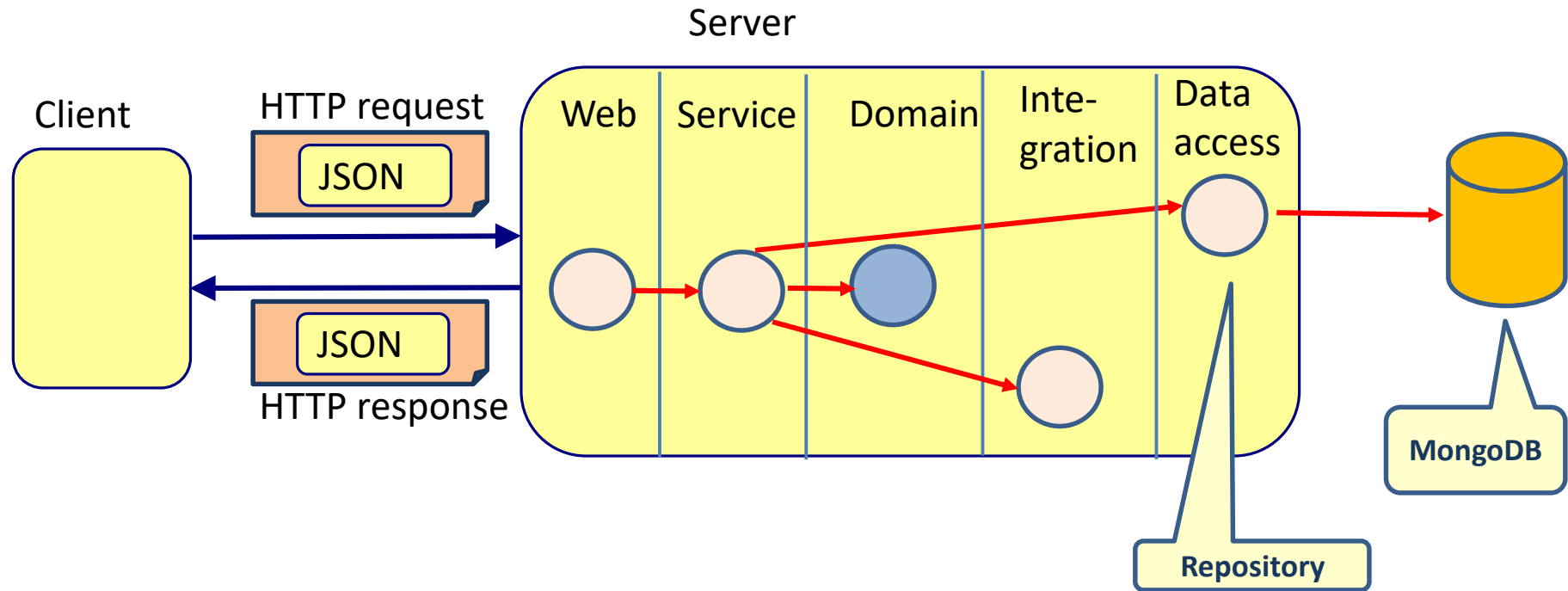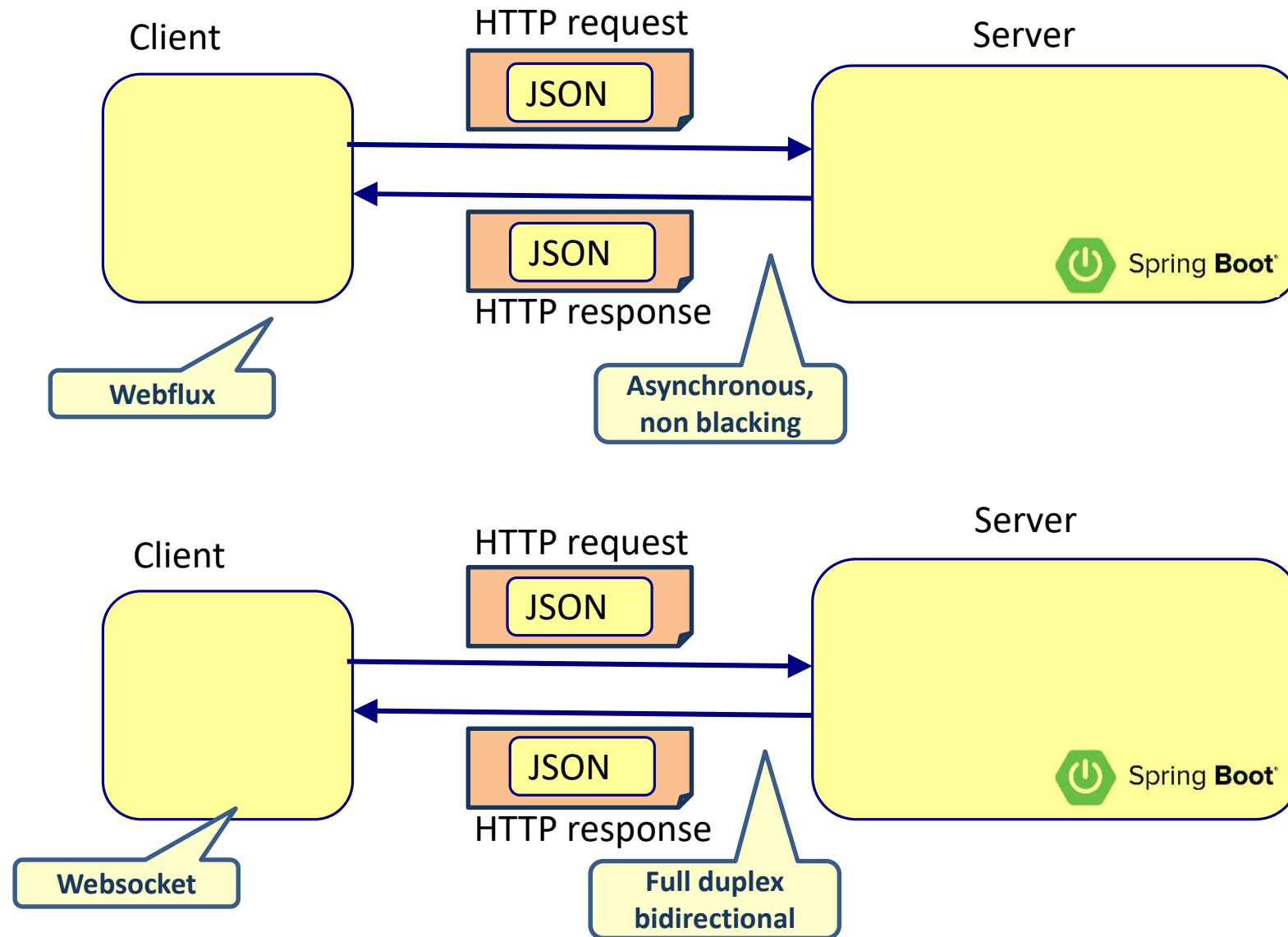Testing Rest
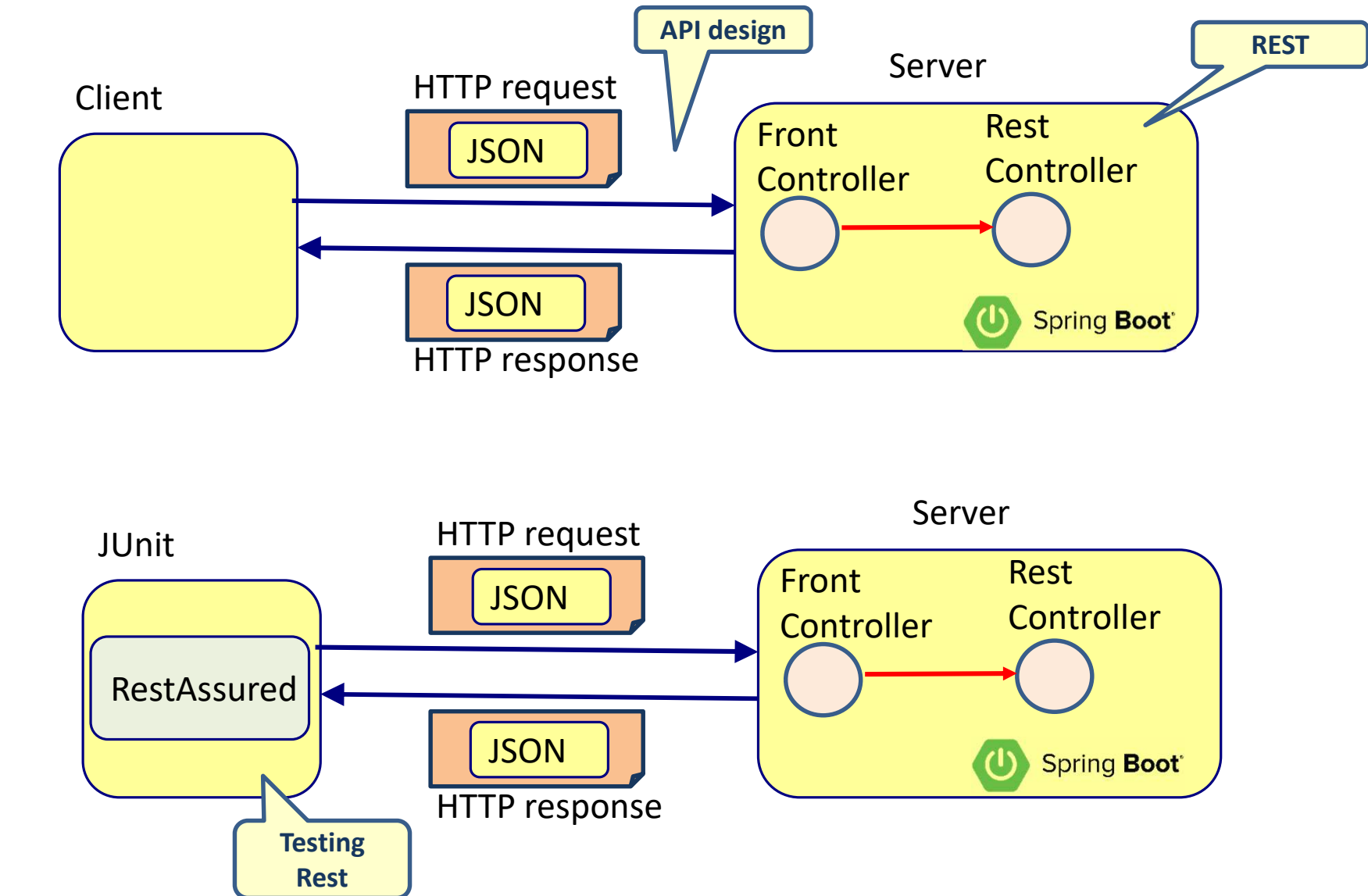
Lesson 4: REST
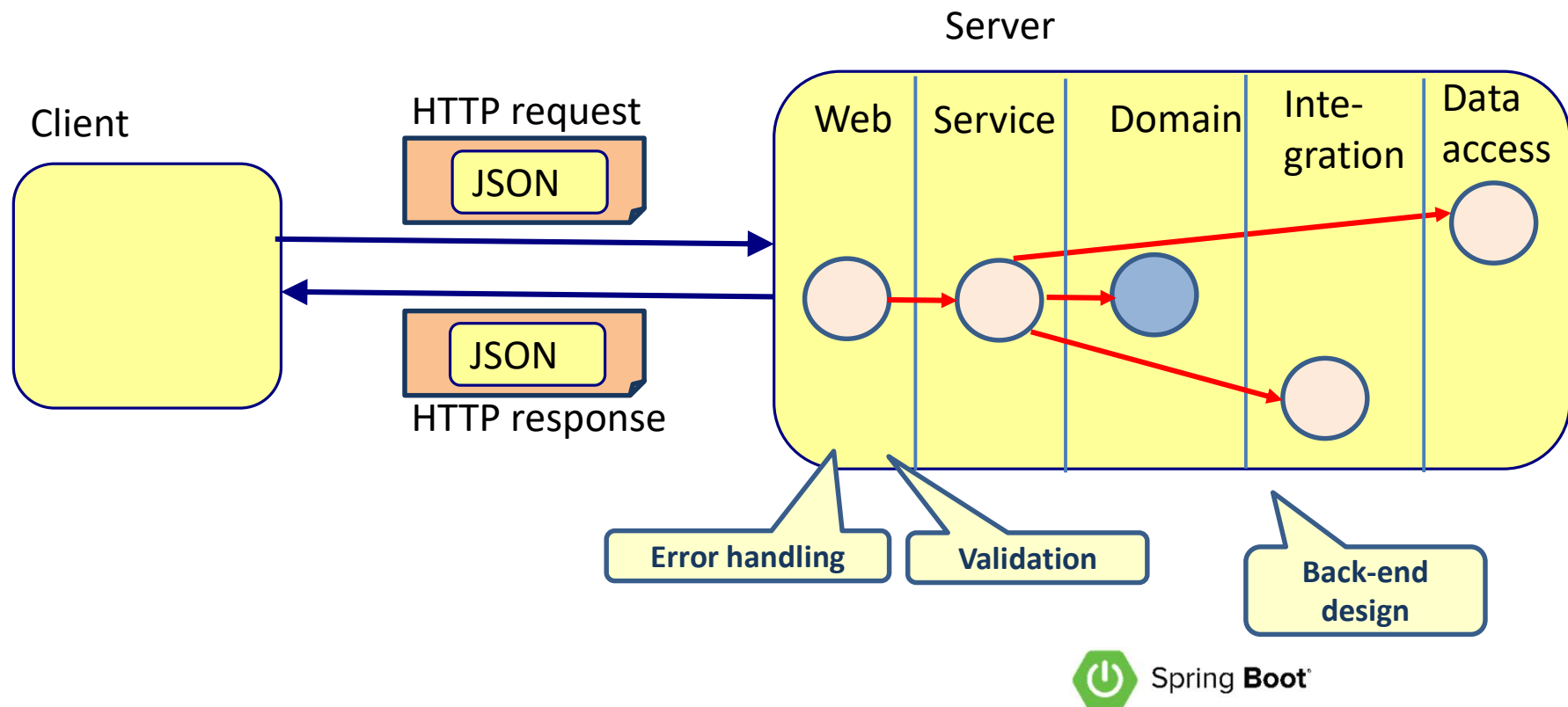
Lesson 5: MongoDB

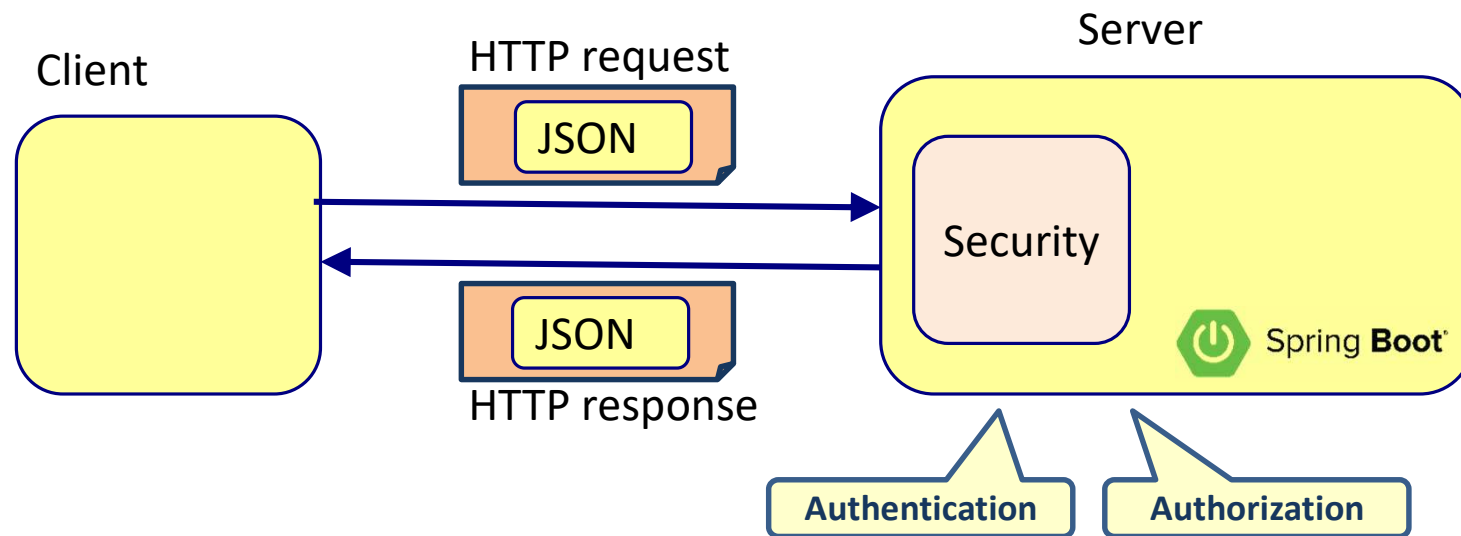# Lesson 6: Webflux & websockets

Client

HTTP request

JSON

Server

JSON

HTTP response

Spring **Boot**

Webflux

**Asynchronous,
non blacking**

Client

HTTP request

JSON

Server

JSON

HTTP response

Spring **Boot**

Websocket

**Full duplex
bidirectional**

Lesson 7: GraphQL

Lesson 8: Security

Client

HTTP request

JSON

Server

Security

Spring **Boot**

JSON

HTTP response

Authentication

Authorization
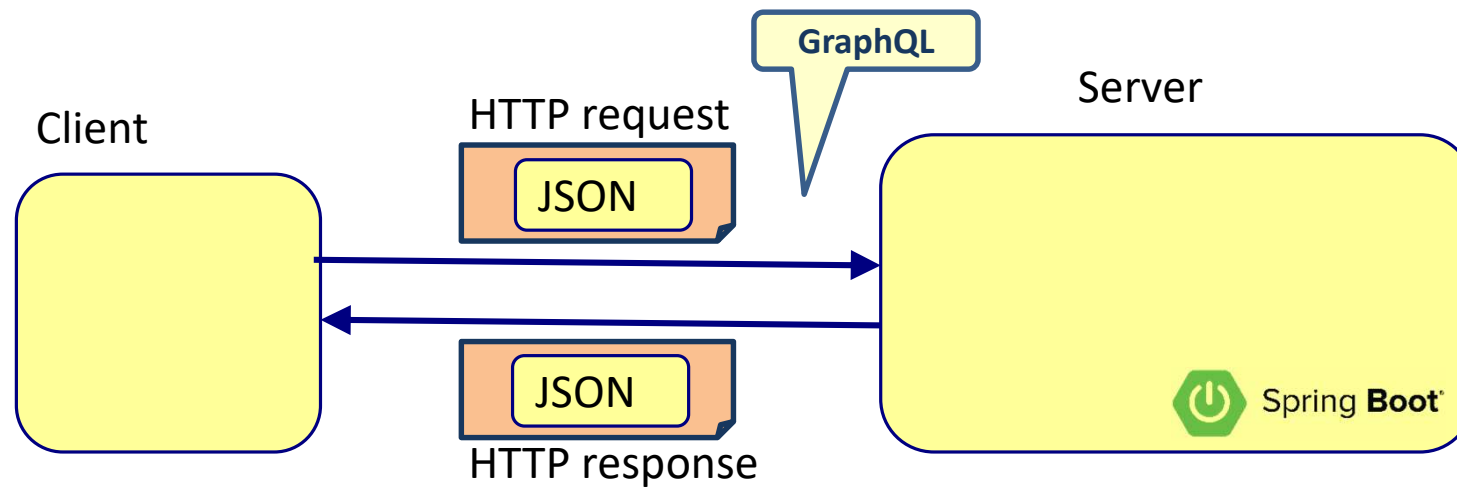
Lesson 9: React, Components

Browser

React components

React
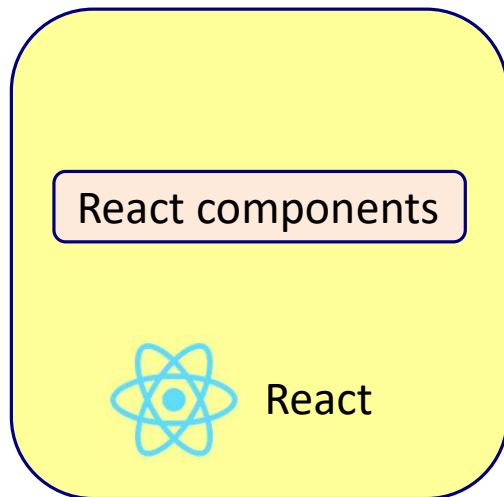
Lesson 10: Routing, state

Browser

React routing

React state

React
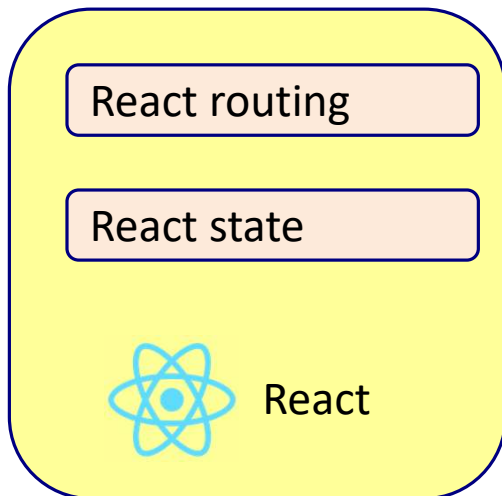
Lesson 11: Forms, validation

Browser

React forms

React validation

React
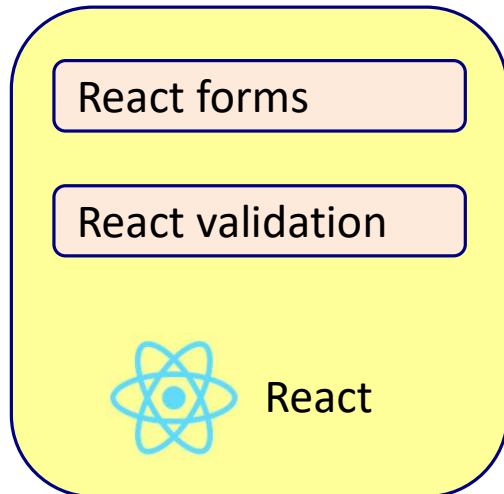
Lesson 12: Backend access

Browser

React back-end access

React

HTTP request

JSON

Server

Spring Boot

JSON

HTTP response
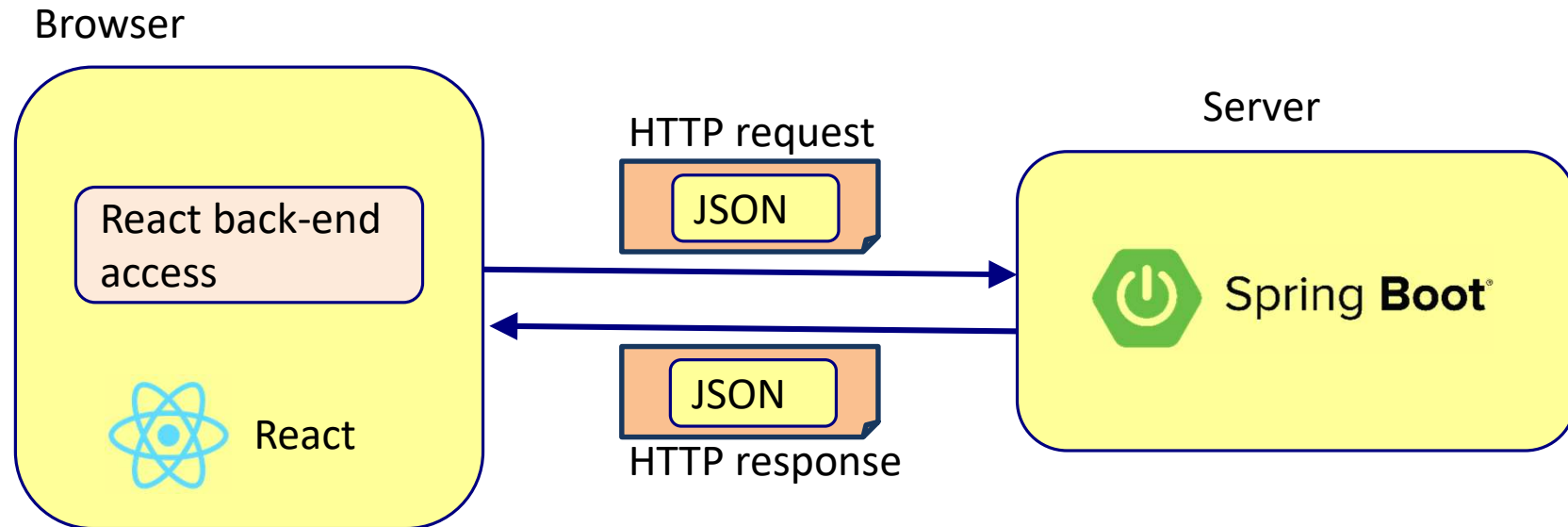
Lesson 13: Redux

Browser

React Redux

React
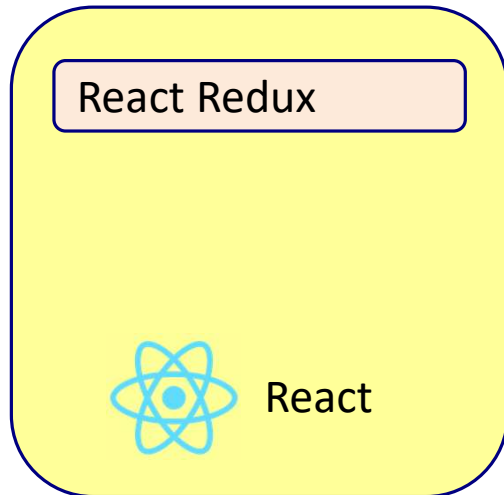
Lesson 14: Testing web applications

Browser

JUnit

HTTP request

Selenium → React

Testing Web

HTTP response

WAA