

Thymeleaf with Spring Boot



What is Thymeleaf?

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Thymeleaf

www.thymeleaf.org

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- Commonly used to generate the HTML views for web apps

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- Thymeleaf is a Java templating engine
- Commonly used to generate the HTML views for web apps
- However, it is a general purpose templating engine

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 - Can use Thymeleaf outside of web apps (more on this later)

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- Commonly used to generate the HTML views for
- However, it is a general purpose templating engine
 - Can use Thymeleaf outside of web apps (more on this later)

Separate project
Unrelated to spring.io

What is a Thymeleaf template?

What is a Thymeleaf template?

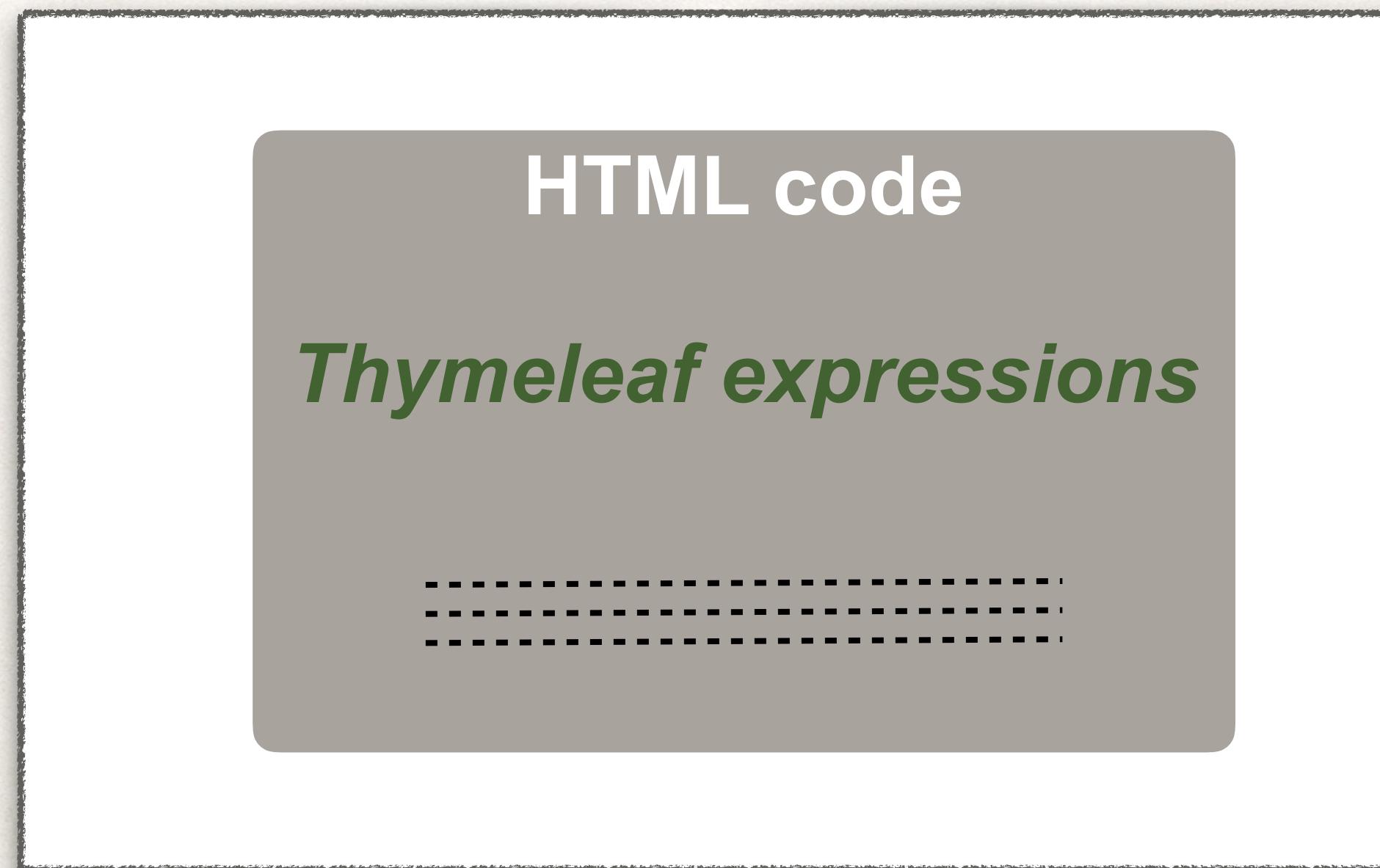
- Can be an HTML page with some Thymeleaf expressions

What is a Thymeleaf template?

- Can be an HTML page with some Thymeleaf expressions
- Include dynamic content from Thymeleaf expressions

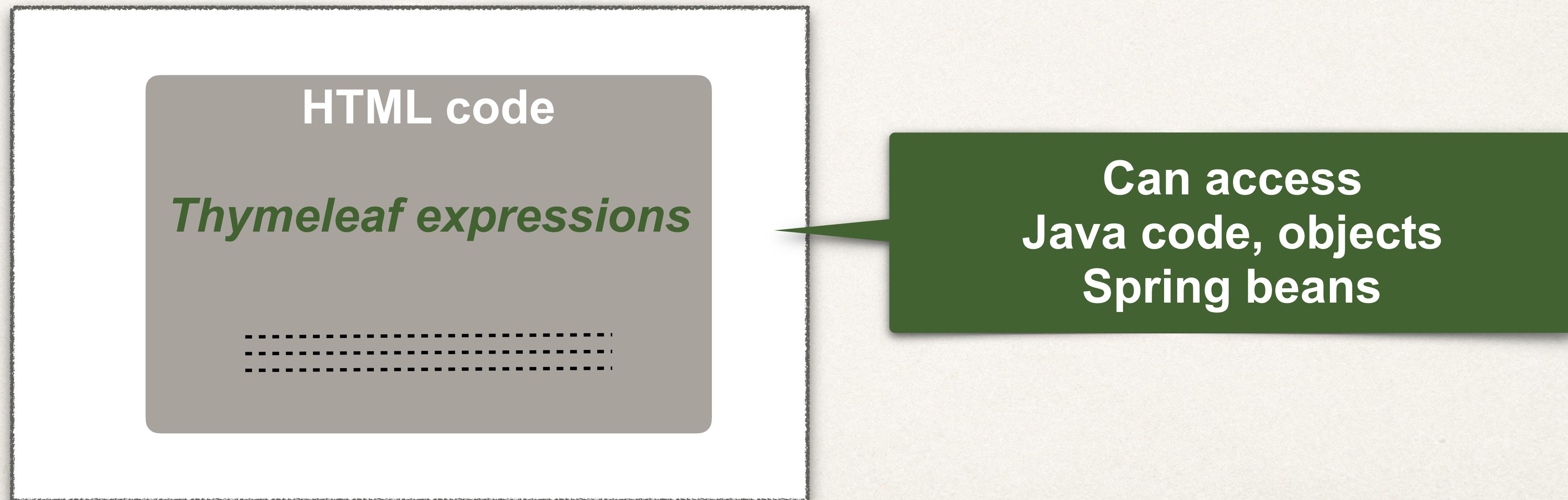
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Where is the Thymeleaf template processed?

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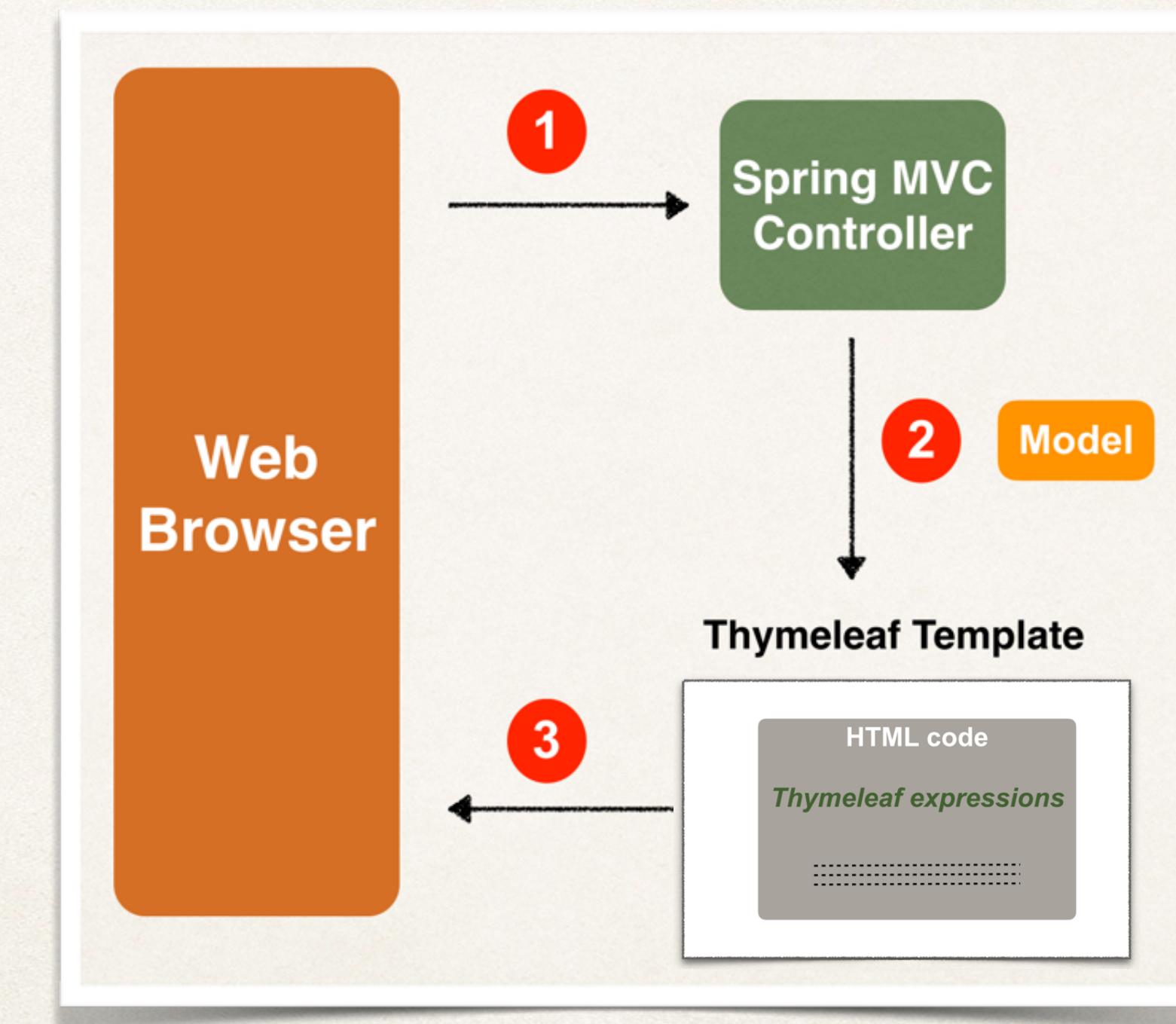
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- Results included in HTML returned to browser

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Hmmm ...

This sounds similar to JSP ...

Thymeleaf vs JSP

Thymeleaf vs JSP

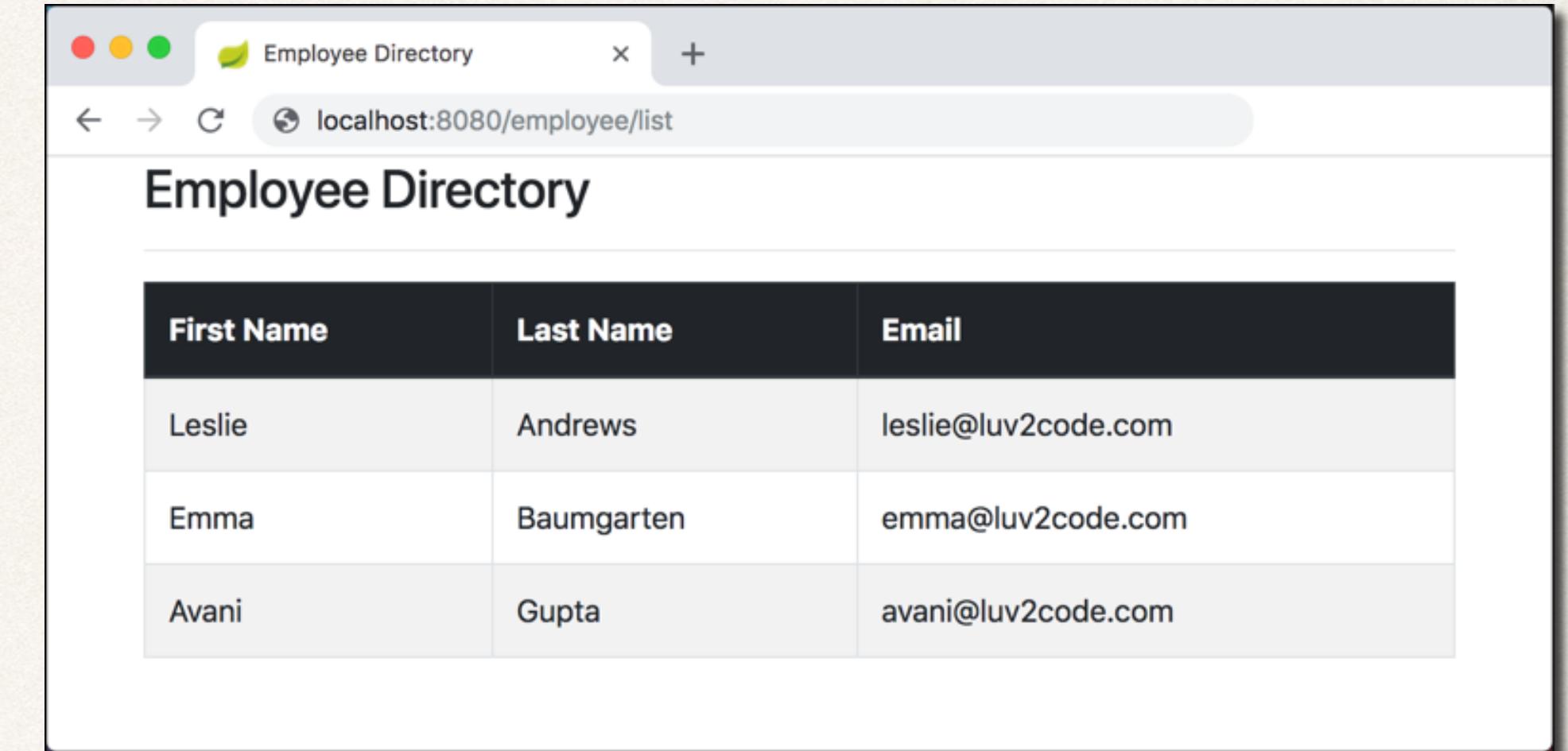
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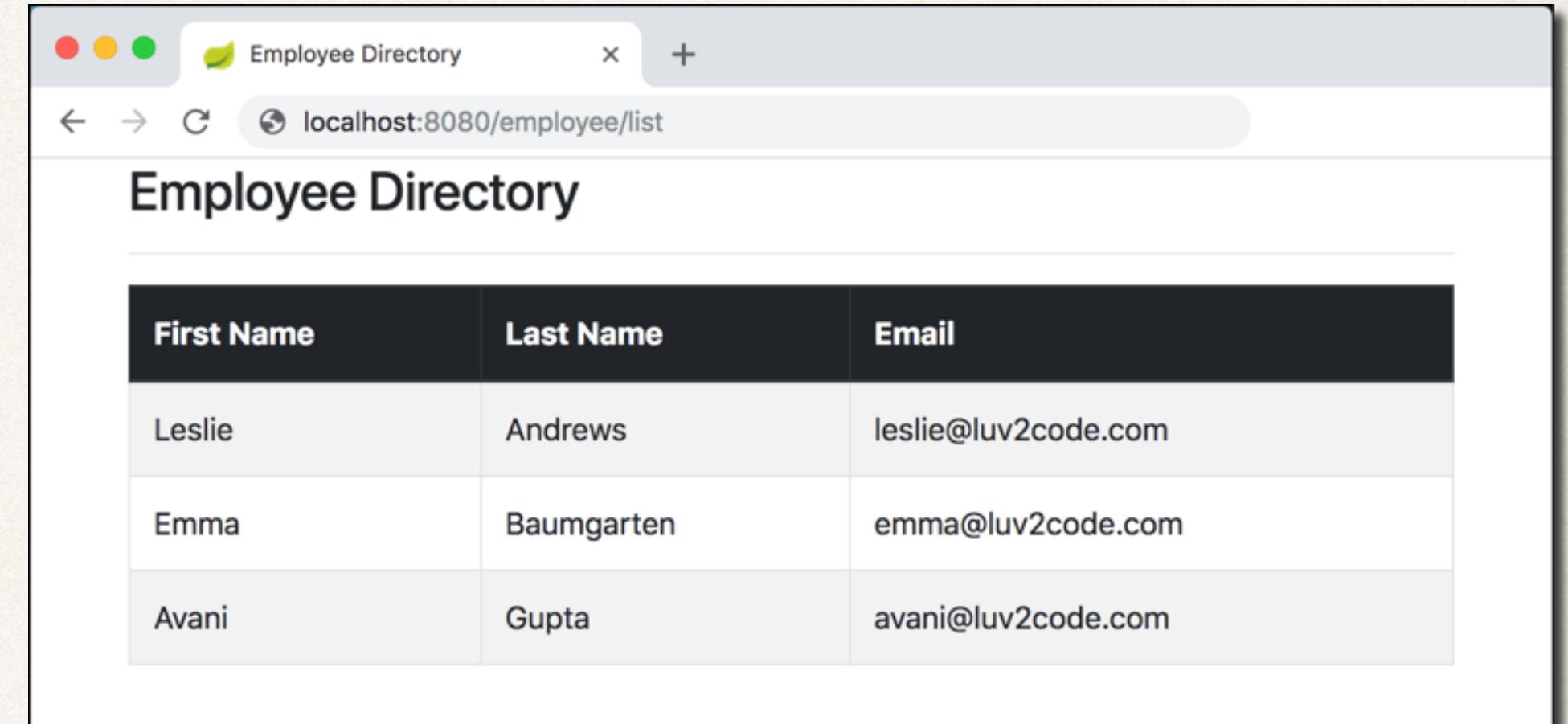


A screenshot of a web browser window titled "Employee Directory". The URL in the address bar is "localhost:8080/employee/list". The page displays a table with three rows of employee information:

First Name	Last Name	Email
Leslie	Andrews	leslie@luv2code.com
Emma	Baumgarten	emma@luv2code.com
Avani	Gupta	avani@luv2code.com

Thymeleaf vs JSP

- Yes, Thymeleaf is similar to JSP
 - Can be used for web view templates
 - One key difference

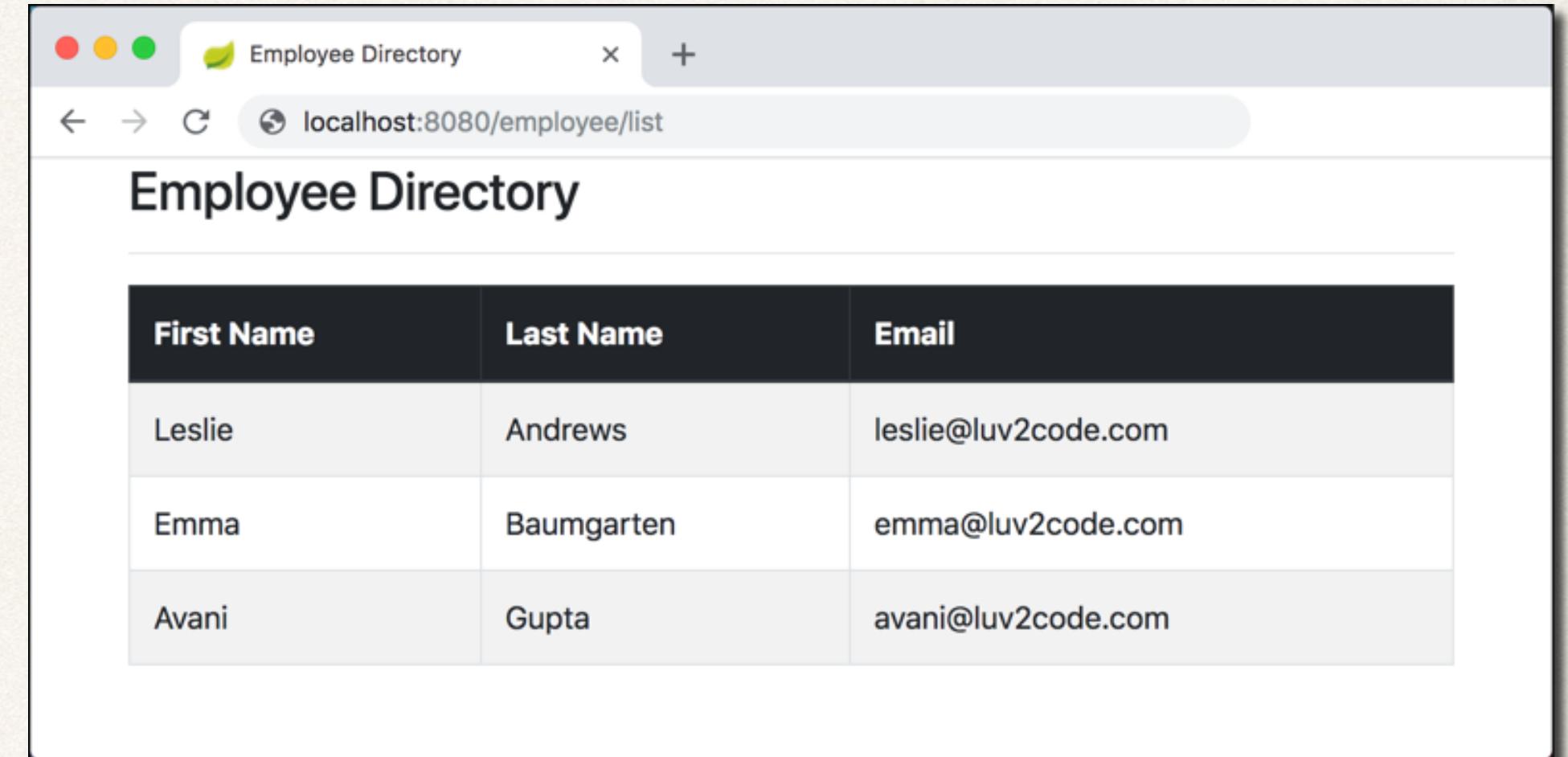


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 - JSP can only be used in a web environment

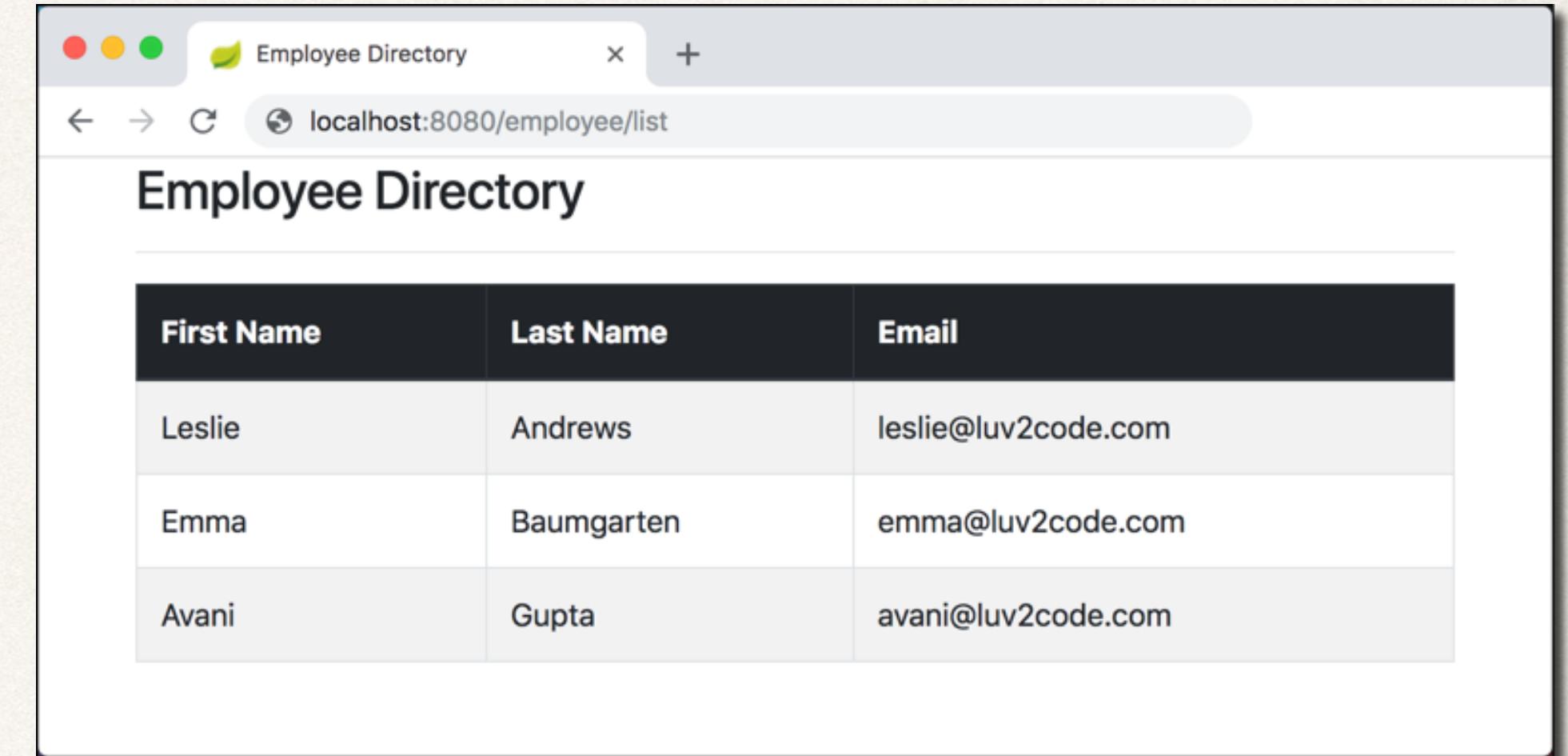


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Thymeleaf vs JSP

- Yes, Thymeleaf is similar to JSP
 - Can be used for web view templates
 - One key difference
 - JSP can only be used in a web environment
 - Thymeleaf can be used in web OR non-web environments



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Thymeleaf Use Cases (non-web)

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- Email Template

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- Email Template
 - When student signs up for a course then send welcome email

Hi <<firstName>>,

Thanks for joining <<course>>!

Email

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- CSV Template

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Thymeleaf Use Cases (non-web)

- Email Template
 - When student signs up for a course then send welcome email
- CSV Template
 - Generate a monthly report as CSV then upload to Google drive

Hi <<firstName>>,

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Email

Product,Quantity,Price,Total

...

CSV

Thymeleaf Use Cases (non-web)

- Email Template
 - When student signs up for a course then send welcome email
- CSV Template
 - Generate a monthly report as CSV then upload to Google drive
- PDF Template

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Product,Quantity,Price,Total

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CSV

Thymeleaf Use Cases (non-web)

- Email Template
 - When student signs up for a course then send welcome email
- CSV Template
 - Generate a monthly report as CSV then upload to Google drive
- PDF Template
 - Generate a travel confirmation PDF then send via email

Hi <<firstName>>,

Thanks for joining <<course>>!

Email

Product,Quantity,Price,Total

...

CSV

Flight: <<flightNum>>
Depart: <<departAirport>>
Arrive: <<arrivalAirport>>

PDF

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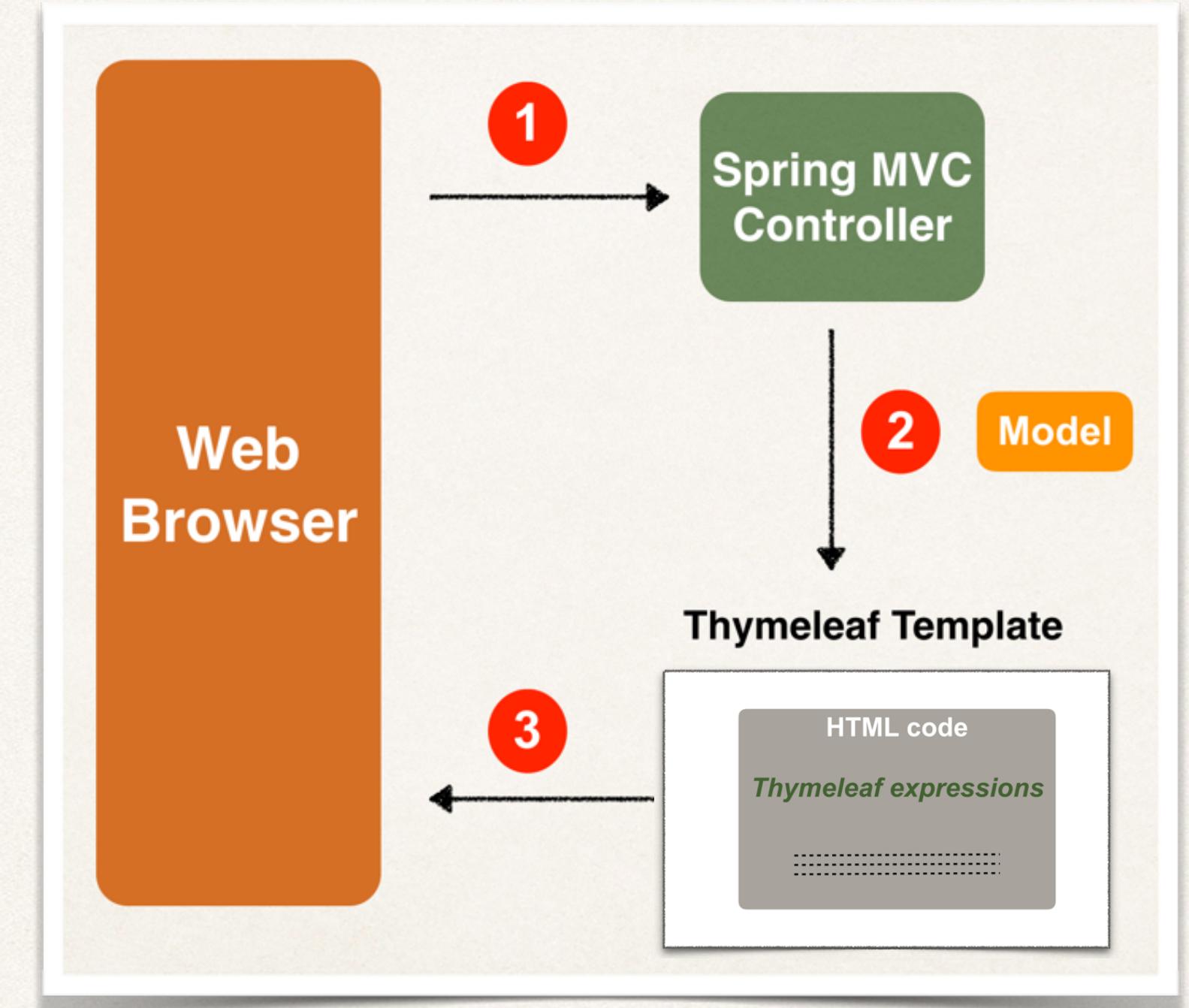
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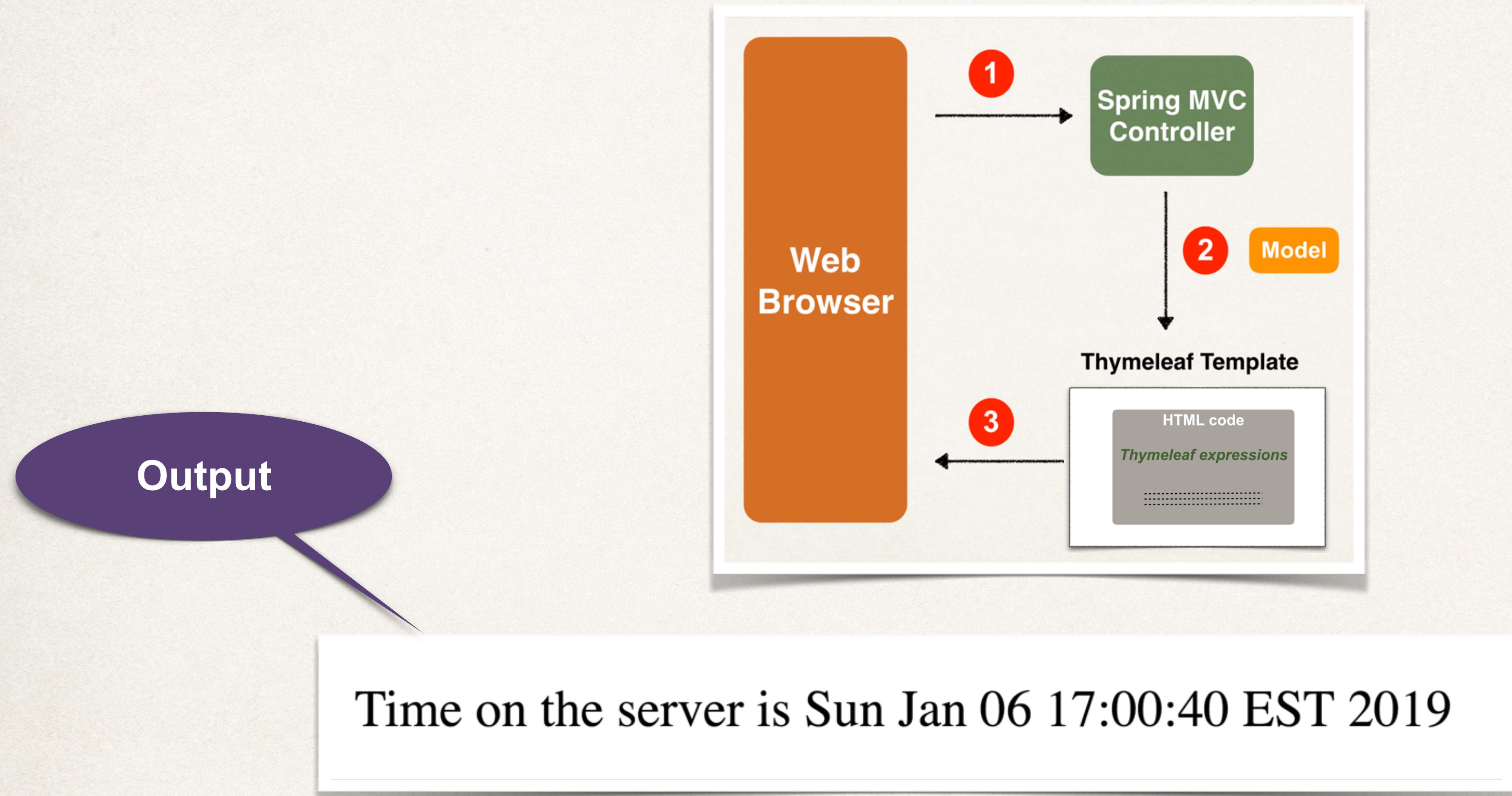
- Depends on your project requirements
- If you only need web views you can go either way
- If you need a general purpose template engine (non-web) use Thymeleaf
- If you want to **impress your interviewer**, mention Thymeleaf ... LOL!

Thymeleaf Demo

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Thymeleaf Demo



Development Process

Step-By-Step

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1. Add Thymeleaf to Maven POM file

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3. Create Thymeleaf template

Step 1: Add Thymeleaf to Maven pom file

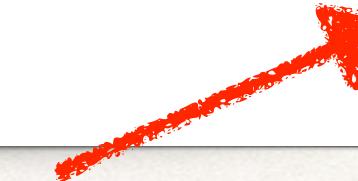
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  <artifactId>spring-boot-starter-thymeleaf</artifactId>
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Dependencies

Add Spring Boot Starters and dependencies to your application

Search for dependencies

Web, Security, JPA, Actuator, Devtools...

Selected Dependencies

Web X

Thymeleaf X



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Based on this,
Spring Boot will auto configure to
use Thymeleaf templates

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Selected Dependencies

Web X Thymeleaf X

Step 2: Develop Spring MVC Controller

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File: DemoController.java

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@Controller
public class DemoController {

    @GetMapping("/")
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src/main/resources/templates/helloworld.html

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 - **src/main/resources/templates**
- For web apps, Thymeleaf templates have a **.html** extension

Step 3: Create Thymeleaf template

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To use Thymeleaf
expressions

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Time on the server is Sun Jan 06 17:00:40 EST 2019

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Step 3: Create Thymeleaf template

Thymeleaf accesses "theDate" from the Spring MVC Model

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Thymeleaf expression

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Thymeleaf
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2

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Additional Features

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