How Thymeleaf Engine Works

By Ramesh Fadatare (Java Guides)

```
public class StudentDto {
    private Long id;
    private String firstName;
    private String lastName;
    private String email;

// getter/setter methods
}
```

Model

```
// handler method to handle list students request
@GetMapping({"/students"})
public String listStudents(Model model){
    List<StudentDto> students = studentService.getAllStudents();
    model.addAttribute( attributeName: "students", students);
    return "students";
}
```

Controller

```
<!DOCTYPE html>
<html lang="en"</pre>
  xmlns:th="http://www.thymeleaf.org"
>
<head...>
<body>
  <thead class="table-dark">
      Thymeleaf
         Student First Name
         Student Last Name
                                         Template
         Student Email
      </thead>
    </div>
</body>
                                          Output
</html>
            (i) localhost:8080/students
    Student First Name Student Last Name
                          Student Email
                         ram@gmail.com
               jadhav
    ram
                         vikram@gmail.com
               jadhav
    vikram
```

umesh@gmail.com

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Model

```
public class Person {
    private String firstName;
    private String lastName;
}
```

List<Person> persons

lel View (Thymeleaf Template)

```
<!DOCTYPE HIML>
<html xmlns:th="http://vvv.thymeleaf.org">
 <head>
  <meta charset="UTF-8" />
  <title>Person List</title>
  k rel="stylesheet" type="text/css"
      th:href="@{/css/style.css)"/>
 </head>
 <body>
  <h1>Person List</h1>
  <a href="addPerson">Add Person</a>
  <br/>
<br/>
<br/>
<br/>
<br/>
<br/>

  <div>
    First Name
       Last Name
     ...
      ...
     く/ tr>
    </div>
 </body>
</html>
```

Thymeleaf Engine



```
<!DOCTYPE HTML>
<html>
  <head>
    <meta charset="UTF-8" />
    <title>Person List</title>
    k rel="stylesheet" type="text/css"
                  href="my-context-path/css/style.css"/>
  </head>
  cbody>
    <h1>Person List</h1>
    <a href="addPerson">Add Person</a>
    <br/><br/>
    <div>
       First Name
           Last Name
           Bill
           Gates
         >
          Steve
Jobs
      </div>
  </body>
</html>
```

The spring-boot-starter-thymeleaf starter Dependency

- Spring Boot provides auto-configuration for Thymeleaf by adding the spring-boot-starter-thymeleaf dependency
- spring-boot-starter-thymeleaf dependency integrate Thymeleaf with Spring integration dependencies
- Spring boot automatically configures view resolver for Thymeleaf
- Spring boot auto configure location for Thymeleaf template.
 By default, Spring boot will look for Thymeleaf templates in /resources/templates folder

Thymeleaf Hello World Example

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Development Steps

- 1. Create Handler Method to Handle the HTTP Request (GET or POST)
- 2. Handler Method Returns Model and View (Thymeleaf Template name)
- 3. Create Thymeleaf Template View and Display Model Data

Spring Boot Web MVC Architecture

