

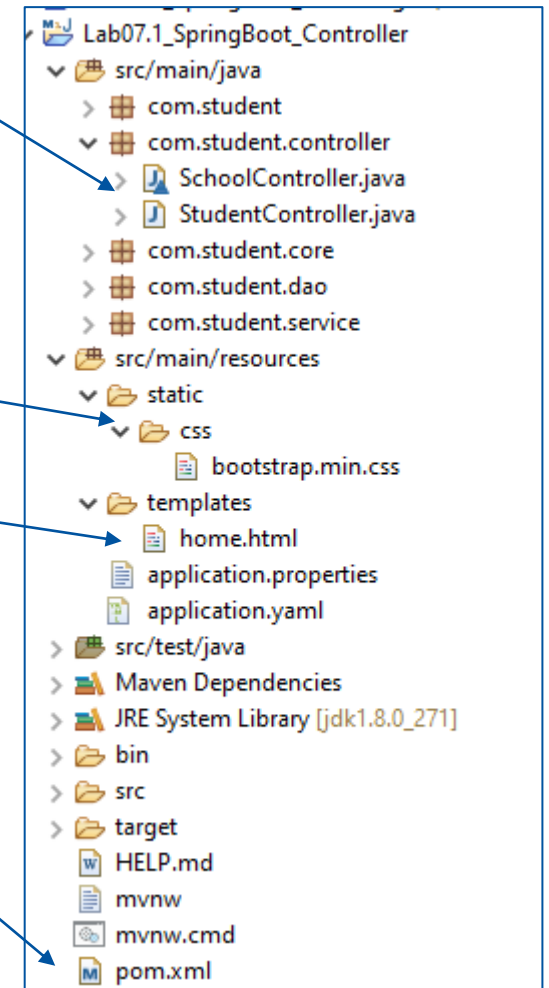
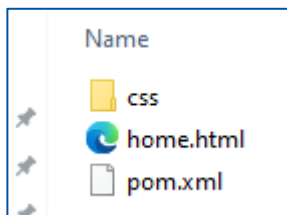
Lab 7.1

A Controller rendering a view

Create a new class
`com.student.controller.SchoolController`

In your lab setup directory for this lab there are a few files that we need.

- Firstly, copy the css directory directly under the `src/main/resources/static` directory
- Secondly, copy `home.html` under the `src/main/resources/templates` directory
- Thirdly Replace your project `pom.xml`, let the project rebuild



Lab 7.1

A Controller rendering a View

- In your new class `schoolController`;
 - Annotate the class with `@Controller`
 - A `RequestMapping` of `"/school"`
 - Inject the spring managed bean `StudentService` `studentService` (use `@Inject`)
 - Create a method `public ModelAndView getAllSchools()`
 - Annotate it with `@GetMapping`
 - Implement the method as follows;

```
Collection<College> colleges =  
studentService.getAllStudents().stream().map(p->  
p.getCollege()).distinct().collect(Collectors.toList());  
return new ModelAndView("home", "colleges", colleges);
```

- It places into Springs Model an attribute of `"colleges"` and is instructing the dispatcher servlet that it wants to be dispatched to `src/main/resources/templates/home.html` due to the `Thymleaf ViewResolver`

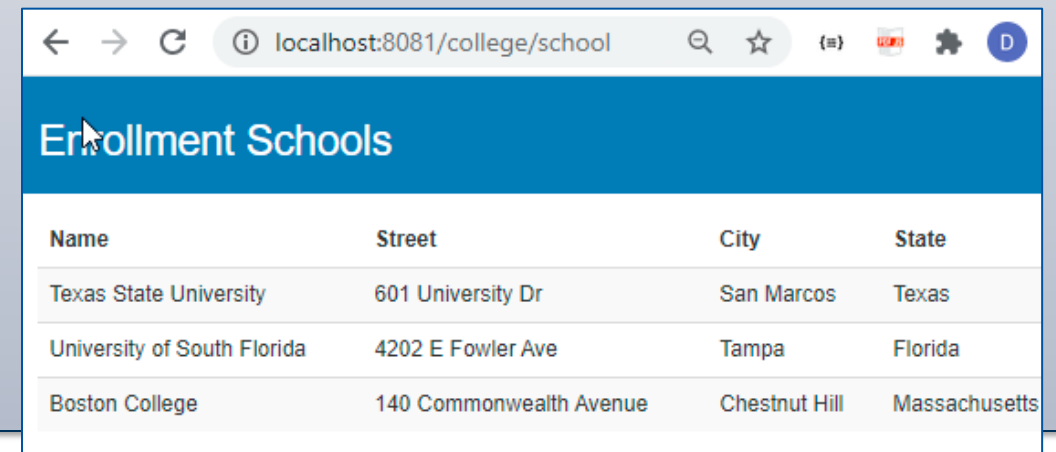
Lab 7.1

A Controller rendering a view

- Since we have placed an attribute into the Model, it should be transported across to the request and as such accessible in the HTML file

```
<tr th:each=" item: ${colleges}">
<td th:text="${item.name}"></td>
<td th:text="${item.street}"></td>
<td th:text="${item.city}"></td>
<td th:text="${item.state}"></td>
</tr>
```

- Re-launch your Spring boot Application and in a browser navigate to college/school to hit your new Controller that should forward to the View
- Our Collection of Schools is in the request
- Thymnleaf HTML 5 renders it



Enrollment Schools			
Name	Street	City	State
Texas State University	601 University Dr	San Marcos	Texas
University of South Florida	4202 E Fowler Ave	Tampa	Florida
Boston College	140 Commonwealth Avenue	Chestnut Hill	Massachusetts