Lab 6.4

In your lab setup directory for this lab, you have some new classes to add or replace in your project

- com.student.core.College (new)
- com.student.core.Student (Replacement)
- com.student.dao.StudentDaoImpl (Replacement)

Copy and paste them into your project

Re-launch your Spring boot Application

If you use the "/college/student/1" endpoint in a browser

```
▼<student>
   ▼<college>
       <city>San Marcos</city>
       <name>Texas State University</name>
       <state>Texas</state>
       <street>601 University Dr</street>
     </college>
     <dept>English Literature</dept>
     <fees>145.0</fees>
     <firstName>Eric</firstName>
     <id>1</id>
     <surname>Colbert</surname>
   </student>
```

You will see the compound object of Student containing a college transformed into text

Lab 6.4 CrossOrigin

CORS

- Cross-origin resource sharing (CORS) is a mechanism that allows restricted resources on a web page to be requested from another domain outside the domain from which the first resource was served.

- Spring MVC provides @CrossOrigin annotation. This annotation marks the annotated method or Controller as permitting cross origin requests. Annotate your Student Controller accordingly
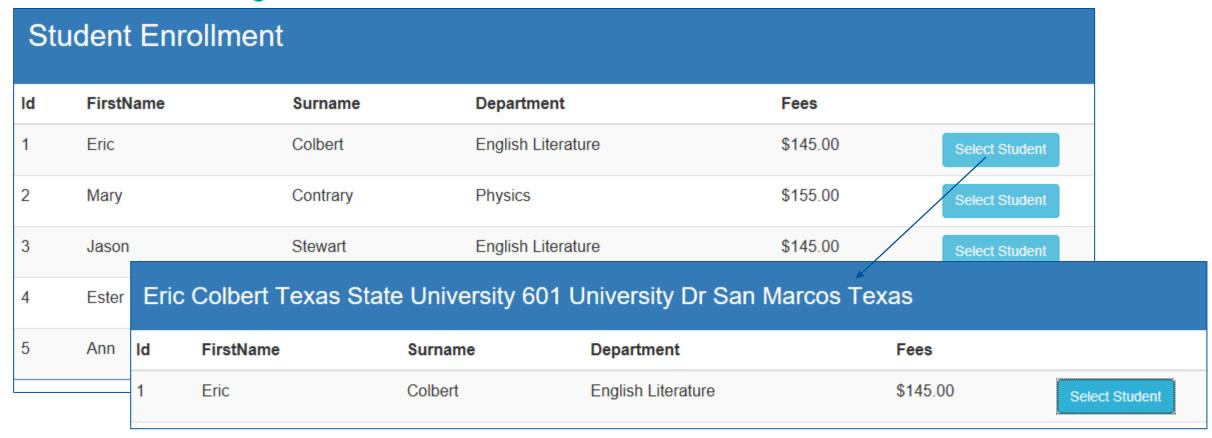
```
@CrossOrigin
public class StudentController {
```

- Re-launch your Spring boot Application

- You have an Angular JS client application that you can use to access your services in your lab setup directory. Open that application

Lab 6.4

- The open the enrolllment.html using a web browser and our "getAll" Service kicks in, Select a Student and our "get one" service kicks it

Lab 6.4

Add a Student

- Run your test for adding a Student from your Client project

```
Student Cross Origin = new Student(0, "Susan", "Doubtfire", "French", 75.00);
ResponseEntity<String> responseEntity = new RestTemplate().postForEntity(URL, new HttpEntity<Student>(student, headers), String.class);
String locationUrl = responseEntity.getHeaders().get("location").get(0);
ResponseEntity<Student> response = new RestTemplate().getForEntity("http://localhost:8081" + locationUrl, Student.class);
```

- Looks like "Susan" got enrolled

6	Susan	Doubtfire	French	$75.00	Select Student

Student Enrollment

Susan Doubtfire Boston College 140 Commonwealth Avenue Chestnut Hill Massachusetts