

CS544 EA Integration

REST: sending / receiving XML

Send / Receive XML

Enabling XML is simply adding a dependency

```
<dependency>
     <groupId>com.fasterxml.jackson.core</groupId>
     <artifactId>jackson-dataformat-xml</artifactId>
</dependency>
```

 With this added our webservice will be able to do both JSON and XML

Content Negotiation

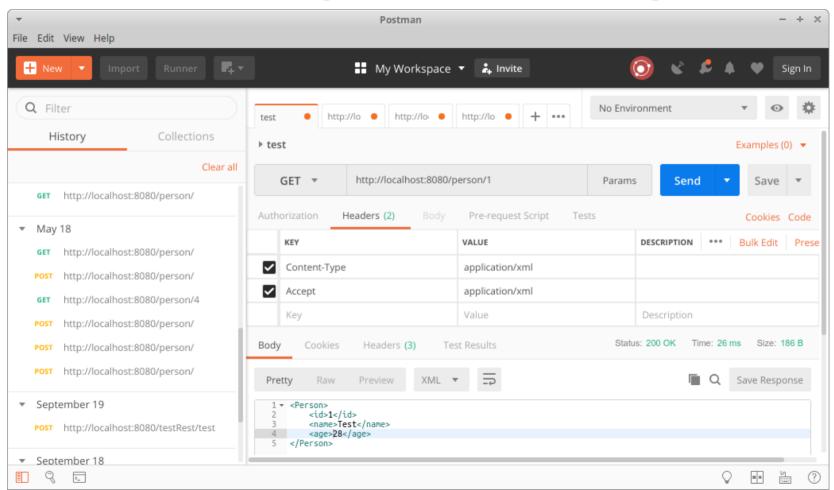
- HTTP headers are used to indicate what the incoming and outgoing data types should be
 - Content-Type indicates what the browser sends
 - Accept indicates what the browser wants

- The mime type for XML is:
 - application/xml

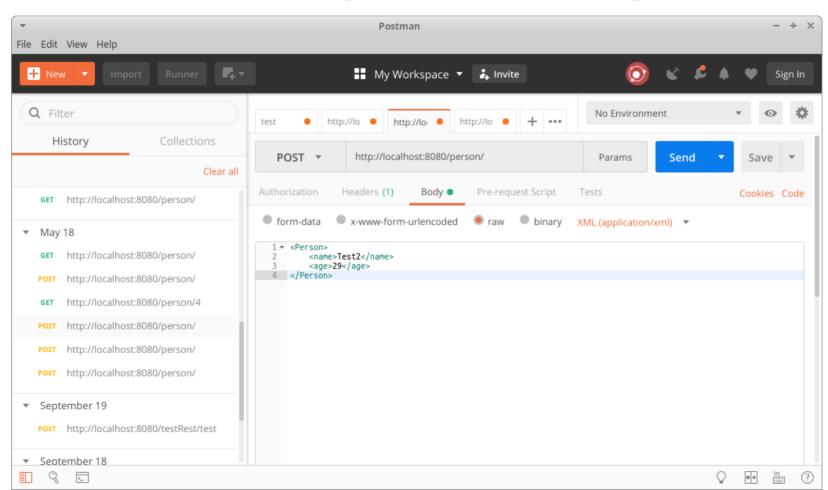
Controller

```
@RestController
public class PersonController {
                                                    By not specifying produces / consumes
     @Autowired
                                                      a controller method can be used for
      private PersonService personService:
                                                              both XML and JSON
     @GetMapping("/person/")
      public List<Person> getAll() {
           return personService.getAll();
     @GetMapping("/person/{id}")
      public Person get(@PathVariable long id) {
           return personService.get(id);
     @PostMapping("/person/")
      public RedirectView post(@RequestBody Person person) {
           long id = personService.add(person);
           return new RedirectView("/person/" + id);
     @PutMapping("/person/{id}")
      public void put(@PathVariable long id, @RequestBody Person person) {
           if (id != person.getId()) { throw new IllegalArgumentException(); }
           personService.update(person);
     @DeleteMapping("/person/{id}")
      public void delete(@PathVariable long id) {
           personService.delete(id);
```

Example Receiving



Example Sending



JAXB Mapping

- The Object to XML Mapping (OXM) defaults to:
 - Class get its own tag
 - Every property gets its own tag inside it
 - An object inside an object is nested
- If you want to change the name of a tag
 - Or use an XML attribute
 - Map them with annotations

Basic OXM Mapping

