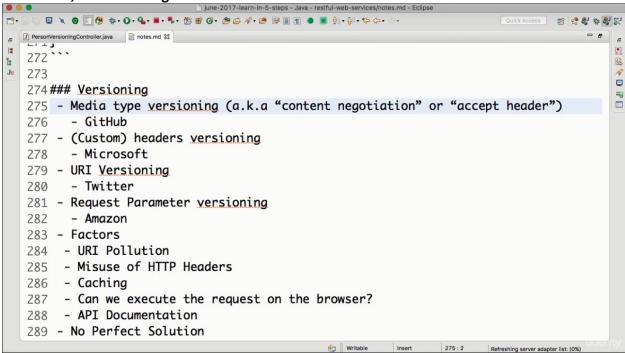
Lecture 38,39: Versioning Restful Service:



- → URI Versioning
- → Header Versioning
- → Request Param versioning
- → MIME type versioning
- 1 & 2 → pollutes URIs (many URIs for the same functionality)
- **3 & 4 → pollutes Headers** (Many headers that are not intended for versioning are used) .Caching becomes difficult here.

Disadv:

URI pollution → happens in 1 Header Pollution → happens 2 Caching → not easy in 3,4

Ease of executing request on browser → not easy in 3,4

Ease of generating documentation → easy in 1 & 2

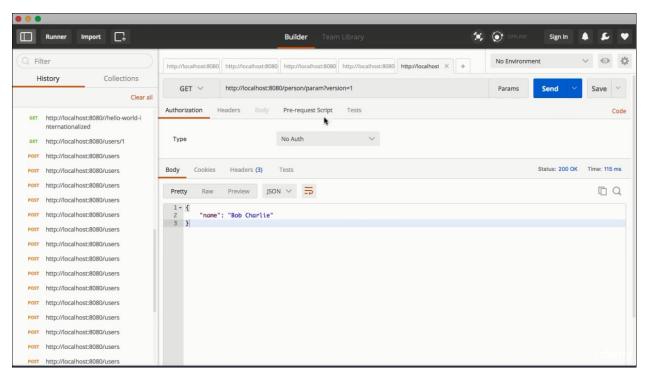
** before coding , finalize your versioning strategy

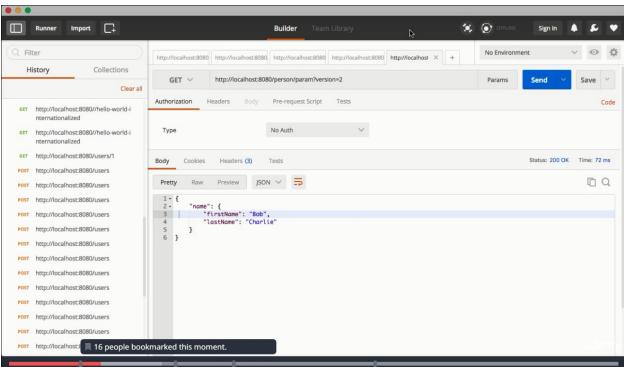
URI-Approach1: (URI versioning)

```
june-2017-learn-in-5-steps - Java - restful-web-services/src/main/java/com/in28minutes/rest/webservices/restfulwebservices/versioning/PersonVersioning/Controller.java - Eclipse
                        □ \( \blace \) \( \blace \)
PersonVersioningController.java 🔀
H
                3-import org.springframework.web.bind.annotation.GetMapping;
                                                                                                                                                                                                                                                                                                                                                                                                        4 import org.springframework.web.bind.annotation.RestController;
                                                                                                                                                                                                                                                                                                                                                                                                         6 @RestController
                7 public class PersonVersioningController {
                                           @GetMapping("v1/person")
               9⊜
                                           public PersonV1 personV1() {
            10
            11
                                                              return new PersonV1("Bob Charlie");
            12
            13
                                          @GetMapping("v2/person")
            14∘
                                           public PersonV2 personV2() {
            15
            16
                                                              return new PersonV2(new Name("Bob", "Charlie"));
            17
            18
            19 }
            20
                                                                                                                                                                                                              Writable Smart Insert 18:1 Refreshing server adapter list: (0%)
```

URI-Approach2: (request params versioning)

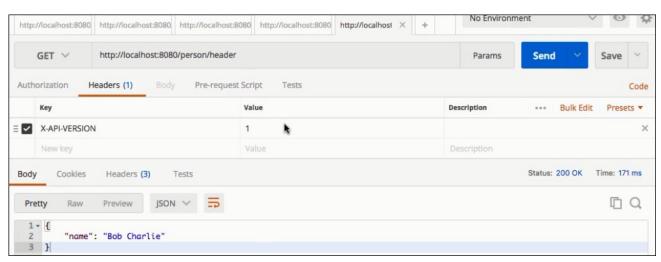
```
utes/rest/webservices/restfulwebservices/versioning/PersonVersioningController.java - Eclipse
      🖳 🔌 📵 📳 🤣 🎋 t 🔘 t ዬ t 📳 t 🚇 🖭 😅 t 🤔 😂 🗳 t 🙆 🝄 🏄 🦫 🔡 🗐 🕤 🐞 📓 🔄 t 🌣 👉 t 🖙 t
PersonVersioningController.java 🔀
  13
           @GetMapping("v2/person")
Ju 14⊖
                                                                                                          15
           public PersonV2 personV2() {
   16
                return new PersonV2(new Name("Bob", "Charlie"));
   17
           }
   18
           @GetMapping(value="/person/param", params="version=1")
   19∘
   20
           public PersonV1 paramV1() {
   21
                return new PersonV1("Bob Charlie");
   22
           }
   23
           @GetMapping(value="/person/param", params="version=2")
   240
            public PersonV2 paramV2() {
   25
                return new PersonV2(new Name("Bob", "Charlie"));
   26
   27
   28
   29 }
   30
                                                        Writable Smart Insert 19:1 Refreshing server adapter list: (0%)
```

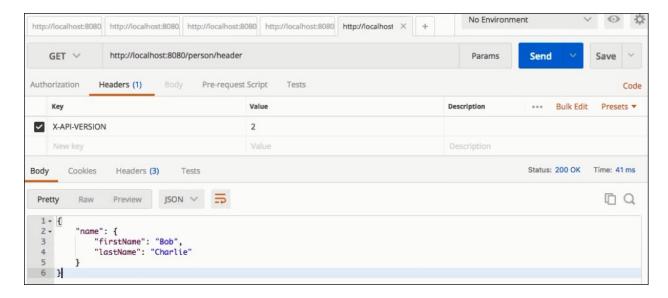




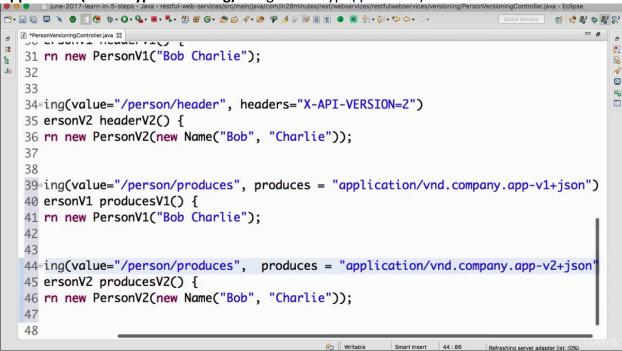
Approach 3: using header

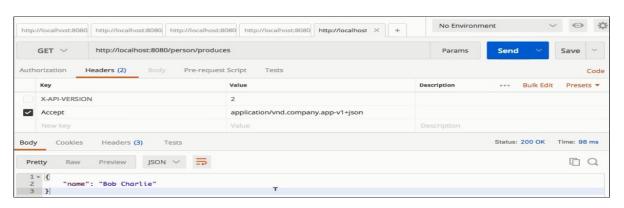
```
s - Java - restful-web-services/src/main/java/com/in28minutes/rest/webservices/restfulwebservices/versioning/PersonVersioningController.java - Eclipse
      PrQD AS QC X QPr □ Pr 5
          public colorina parameter
                                                                              ■ ※ % 🖟 🖟 🗗 🗗 🗗 🗗 🗂 + 📸 + tfulWebServicesApplication [Java Application] /Librar
18
   21
                return new PersonV1("Bob Charlie");
90
                                                                            13:39:05.564 [main] D
Ju
   22
                                                                            13:39:05.585 [main] [ 💷
   23
           @GetMapping(value="/person/param", params="version=2") 13:39:05.586 [main] [ ]
   240
           public PersonV2 paramV2() {
   25
                return new PersonV2(new Name("Bob", "Charlie"));
   26
   27
   28
   299
           @GetMapping(value="/person/header", headers="X-API-VERSION=1")
   30
           public PersonV1 headerV1() {
   31
                return new PersonV1("Bob Charlie");
   32
           }
   33
   349
           @GetMapping(value="/person/header", headers="X-API-VERSION=2")
   35
           public PersonV2 headerV2() {
                return new PersonV2(new Name("Bob", "Charlie"));
   36
   37
   38
                            18 people bookmarked this moment.
                                                                              Refreshing server adapter list: (0%)
```

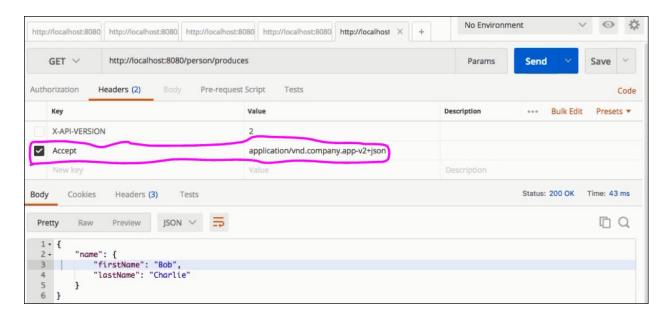




Approach4: (MIME type versioning) using return type(produces)





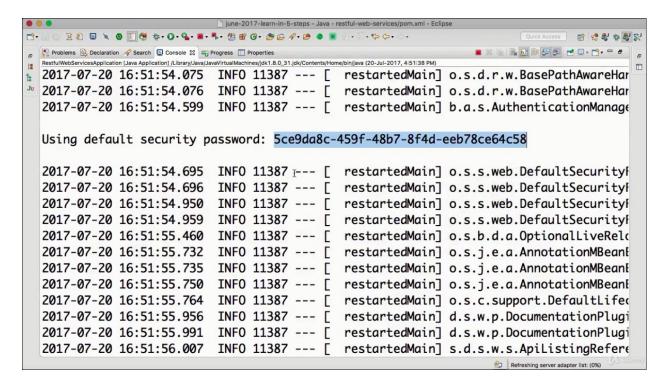


Lecture 40: Basic Authentication

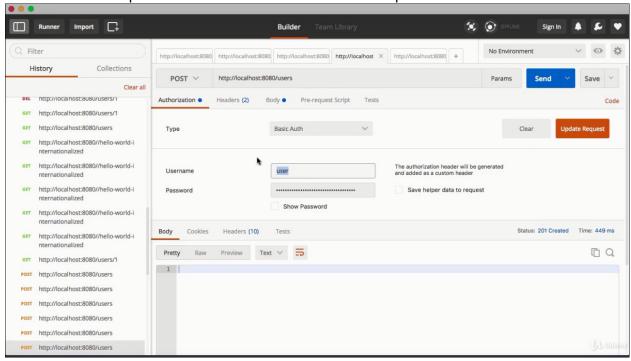
Step1:

```
june-2017-learn-in-5-steps - Java - restful-web-services/pom.xml - Eclipse
     Quick Access
PersonVersioningController.java
                   <groupId>org.springframework.boot</groupId>
   35
                                                                                         6
   36
                   <artifactId>spring-boot-starter-web</artifactId>
Ju
               </dependency>
                                                                                          37
   38
               <dependency>
   39€
                   <groupId>org.springframework.boot</groupId>
   40
                   <artifactId>spring-boot-starter-security</artifactId>
   41
               </dependency>
   42
   43
               <dependency>
   449
   45
                   <groupId>org.springframework.boot</groupId>
                   <artifactId>spring-boot-starter-actuator</artifactId>
   46
   47
               </dependency>
   48
               <dependency>
   499
                   <groupId>org.springframework.data
   50
                   <artifactId>spring-data-rest-hal-browser</artifactId>
    51
               </dependency>
    52
                                               Writable 
                                                        Smart Insert 41 : 53
                                                                       Refreshing server adapter list: (0%)
```

<u>Step2:</u> Restart the server . U will notice the default password in the log.copy it.

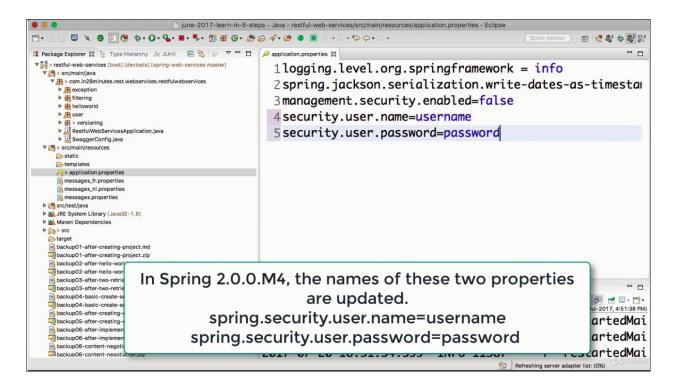


Now use the same password & default user "user" in the request to access all the resources.



If username/password is not correct or provided:

Disadvantage: each time server restarts, the password changes. Solution: provide the password in the application.properties



try now with new username/password .It'll provide u the expected result.