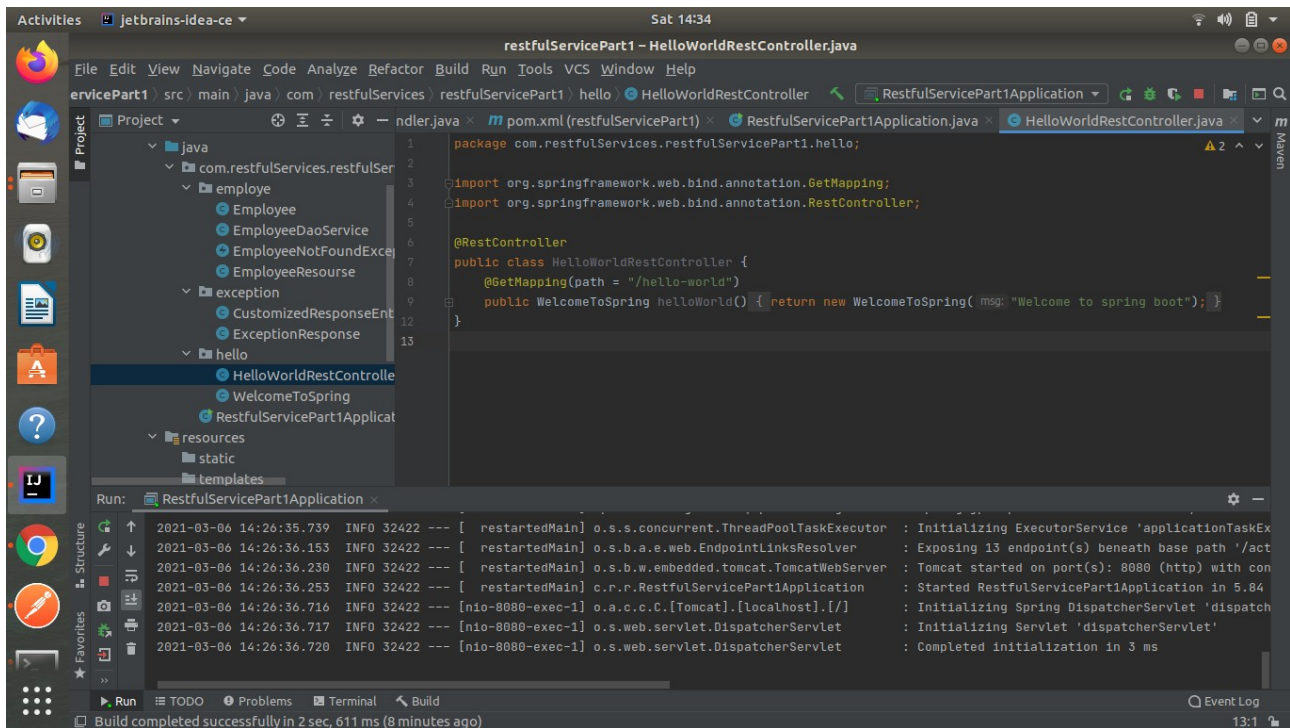


Create a simple REST ful service in Spring Boot which returns the Response "Welcome to spring boot".



The screenshot shows the IntelliJ IDEA IDE with the following components:

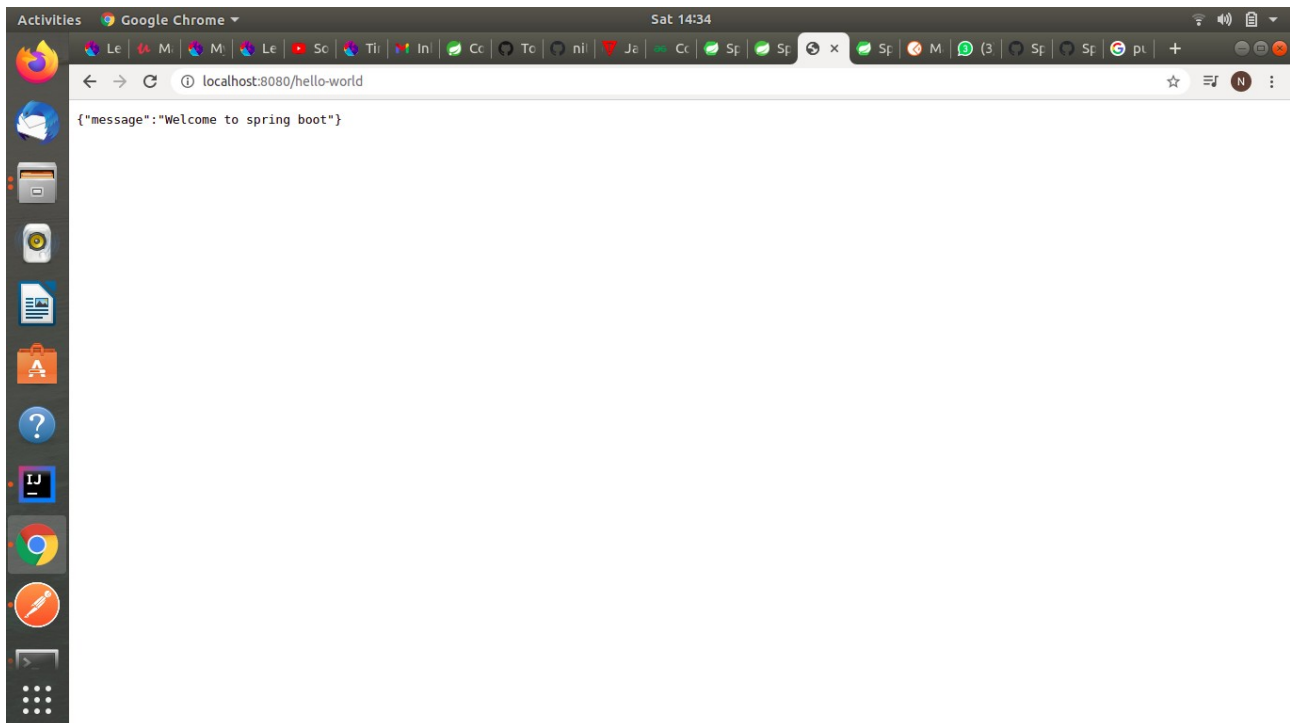
- Project Structure:** A package structure for `com.restfulServices.restfulServicePart1.hello` containing `HelloWorldRestController` and `WelcomeToSpring`.
- Code Editor:** The `HelloWorldRestController.java` file is open, showing the following code:

```
package com.restfulServices.restfulServicePart1.hello;

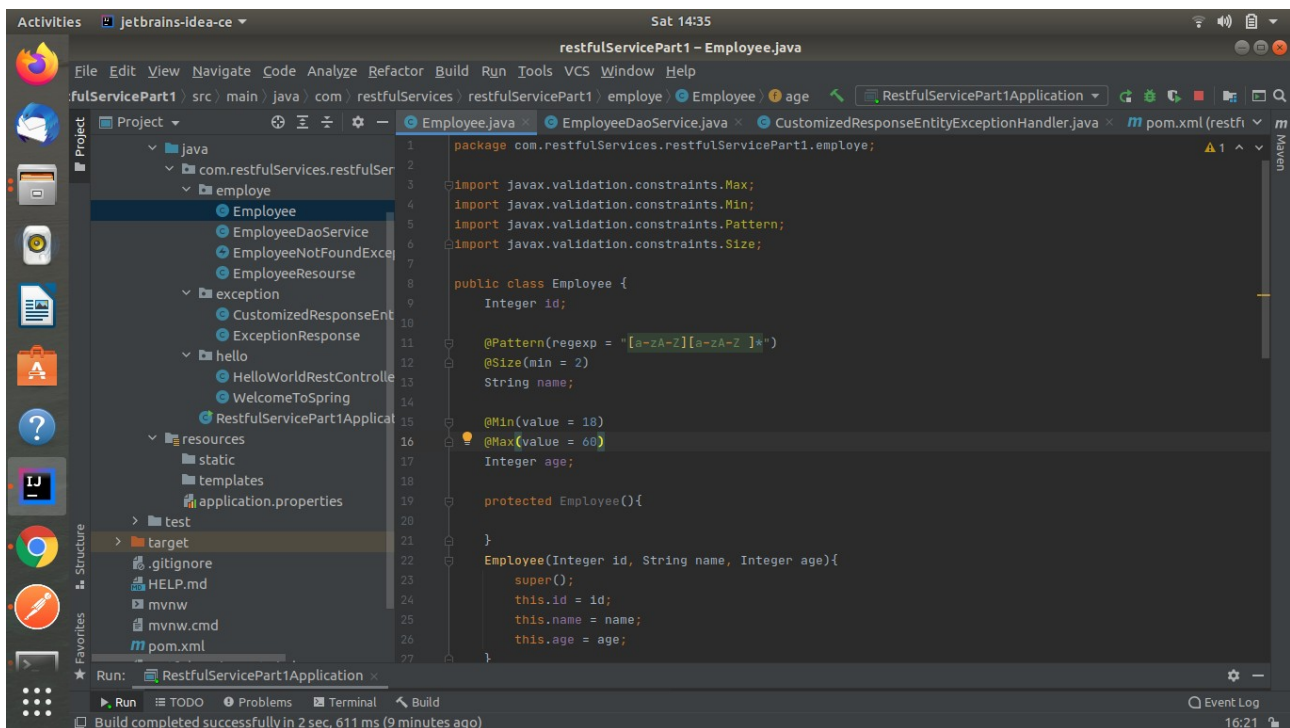
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class HelloWorldRestController {
    @GetMapping(path = "/hello-world")
    public WelcomeToSpring helloWorld() { return new WelcomeToSpring( msg: "Welcome to spring boot"); }
}
```
- Run Console:** The console shows the application starting successfully on port 8080. The logs include:

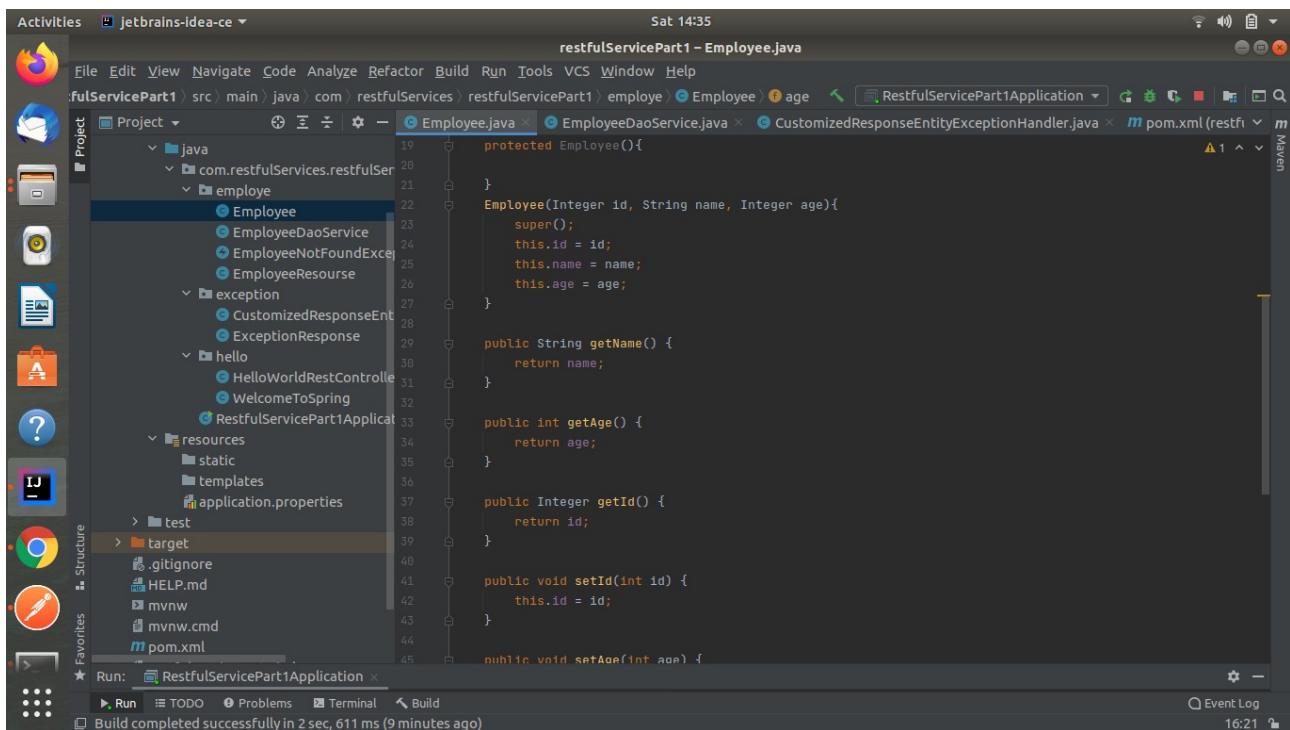
```
2021-03-06 14:26:35.739 INFO 32422 --- [ restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskEx
2021-03-06 14:26:36.153 INFO 32422 --- [ restartedMain] o.s.b.a.e.web.EndpointLinksResolver : Exposing 13 endpoint(s) beneath base path '/act
2021-03-06 14:26:36.230 INFO 32422 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with con
2021-03-06 14:26:36.253 INFO 32422 --- [ restartedMain] o.r.r.RestfulServicePart1Application : Started RestfulServicePart1Application in 5.84
2021-03-06 14:26:36.716 INFO 32422 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatch
2021-03-06 14:26:36.717 INFO 32422 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2021-03-06 14:26:36.720 INFO 32422 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 3 ms
```



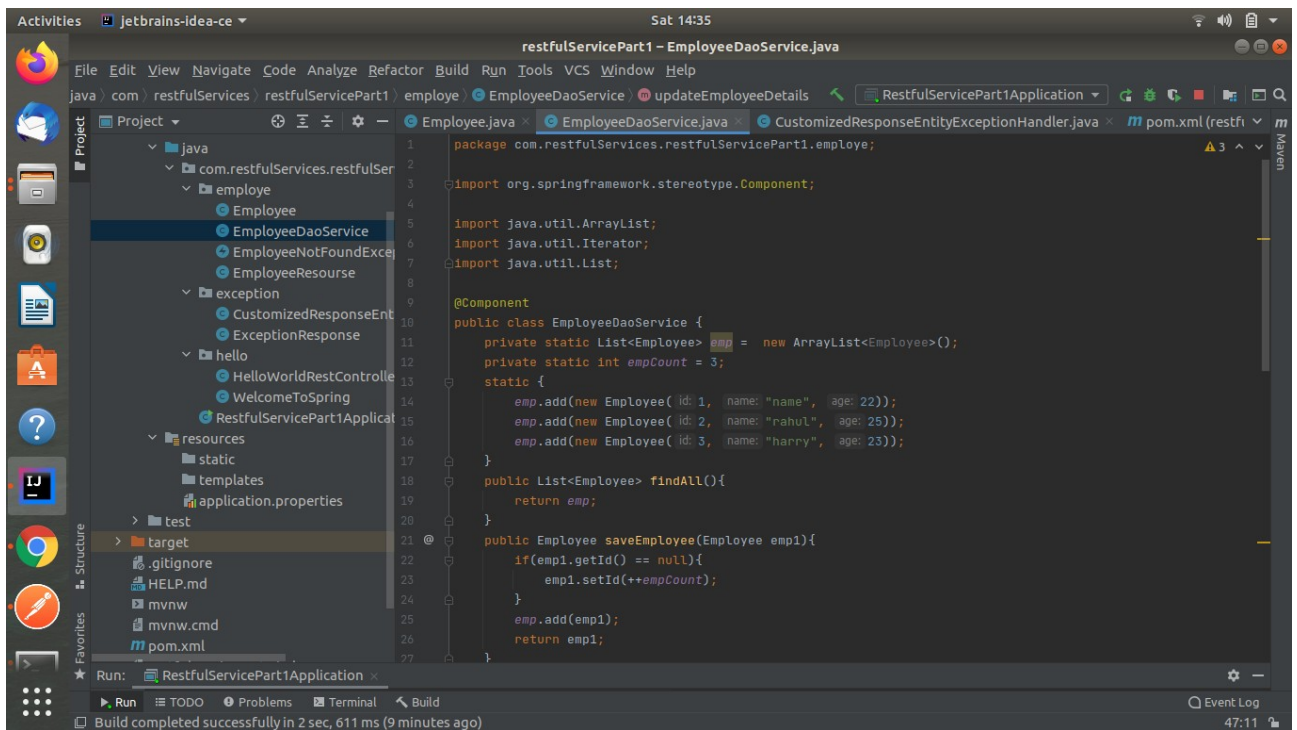
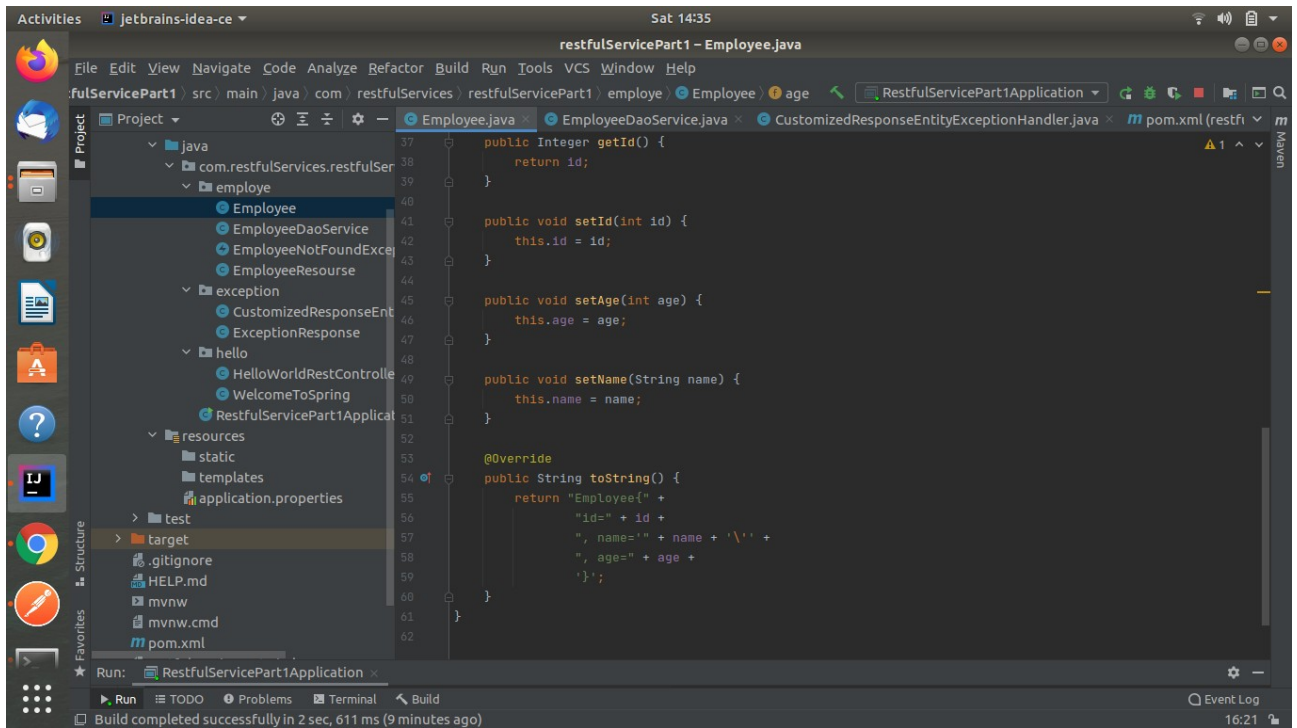
Q2: Create an Employee Bean(id, name, age) and service to perform different operations related to employee.

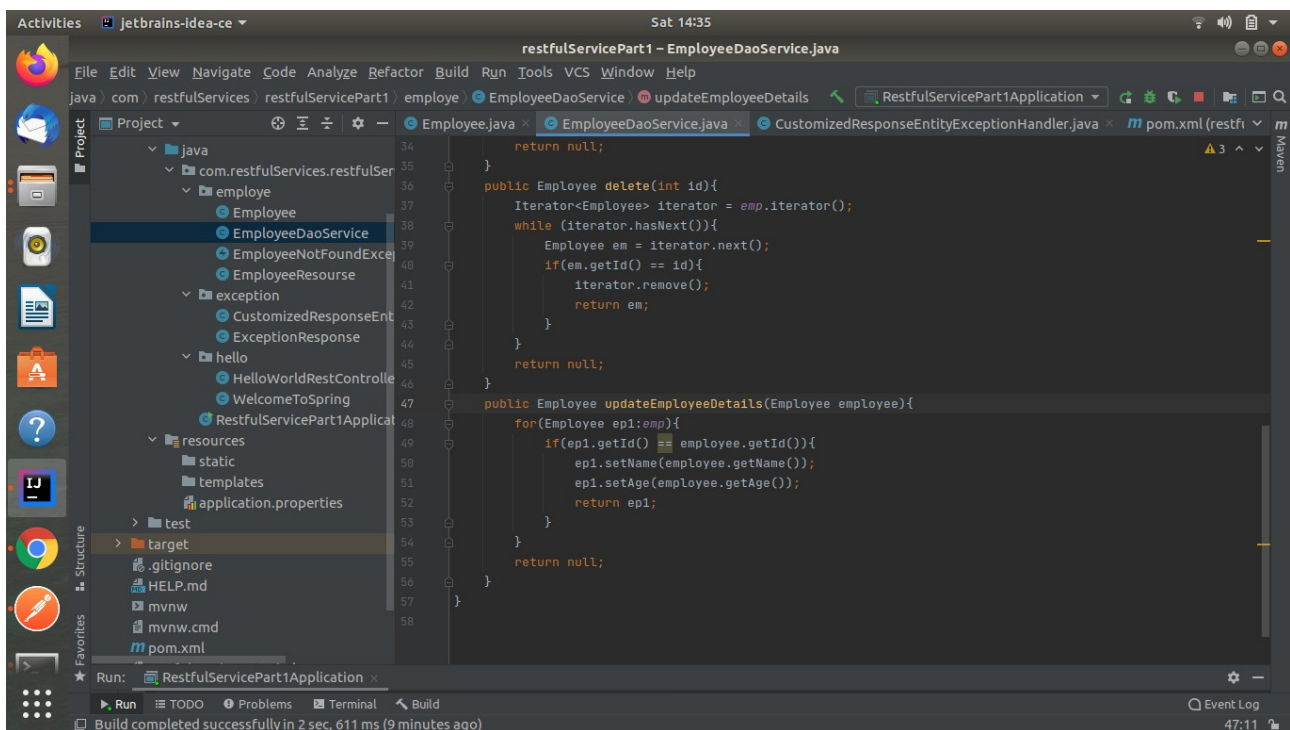
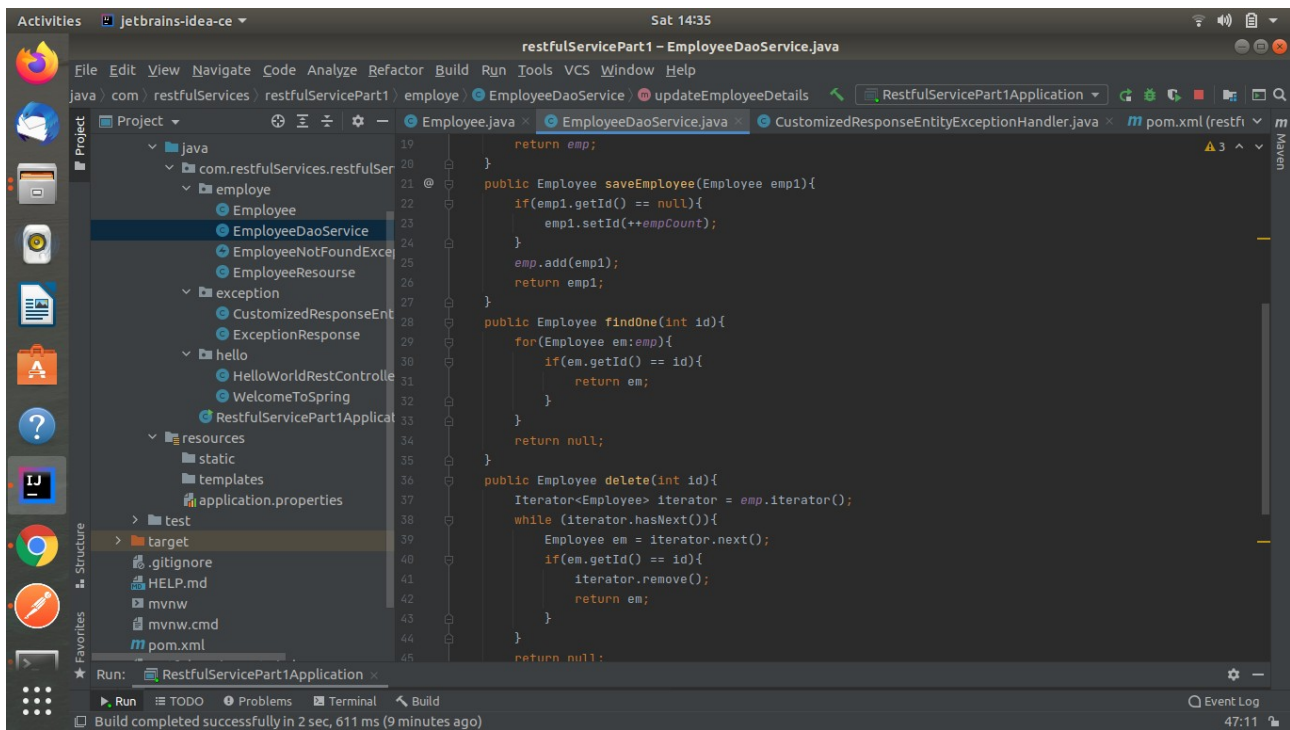


```
1 package com.restfulServices.restfulServicePart1.employee;
2
3 import javax.validation.constraints.Max;
4 import javax.validation.constraints.Min;
5 import javax.validation.constraints.Pattern;
6 import javax.validation.constraints.Size;
7
8 public class Employee {
9     Integer id;
10
11     @Pattern(regexp = "[a-zA-Z][a-zA-Z]*")
12     @Size(min = 2)
13     String name;
14
15     @Min(value = 18)
16     @Max(value = 60)
17     Integer age;
18
19     protected Employee(){
20
21     }
22     Employee(Integer id, String name, Integer age){
23         super();
24         this.id = id;
25         this.name = name;
26         this.age = age;
27     }
```

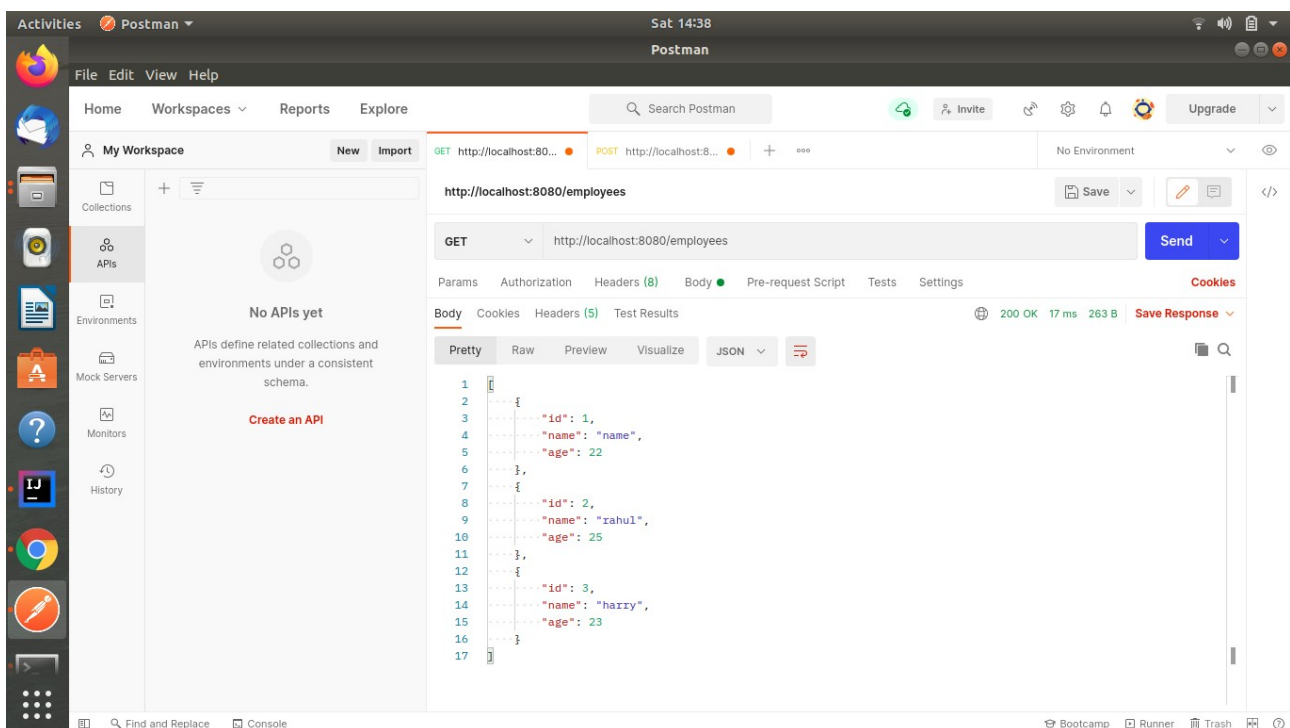
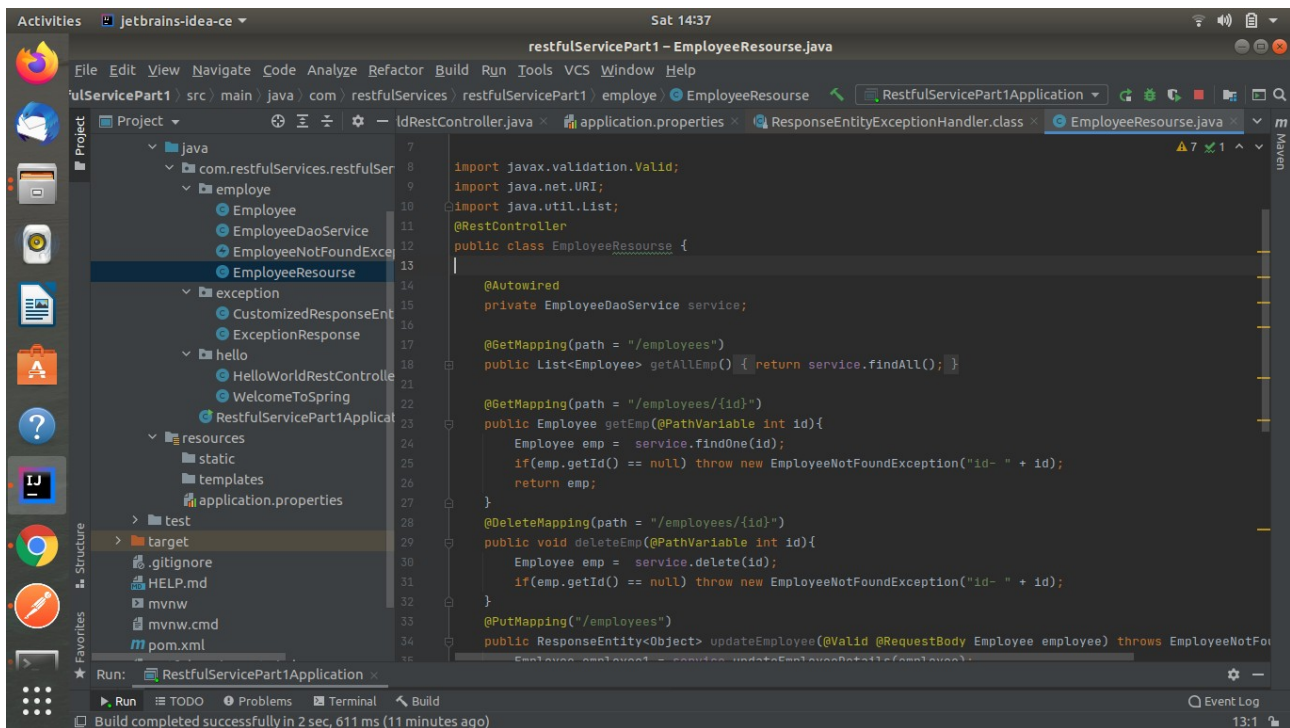


```
19     protected Employee(){
20
21     }
22     Employee(Integer id, String name, Integer age){
23         super();
24         this.id = id;
25         this.name = name;
26         this.age = age;
27     }
28
29     public String getName() {
30         return name;
31     }
32
33     public int getAge() {
34         return age;
35     }
36
37     public Integer getId() {
38         return id;
39     }
40
41     public void setId(int id) {
42         this.id = id;
43     }
44
45     public void setAge(int age) {
```

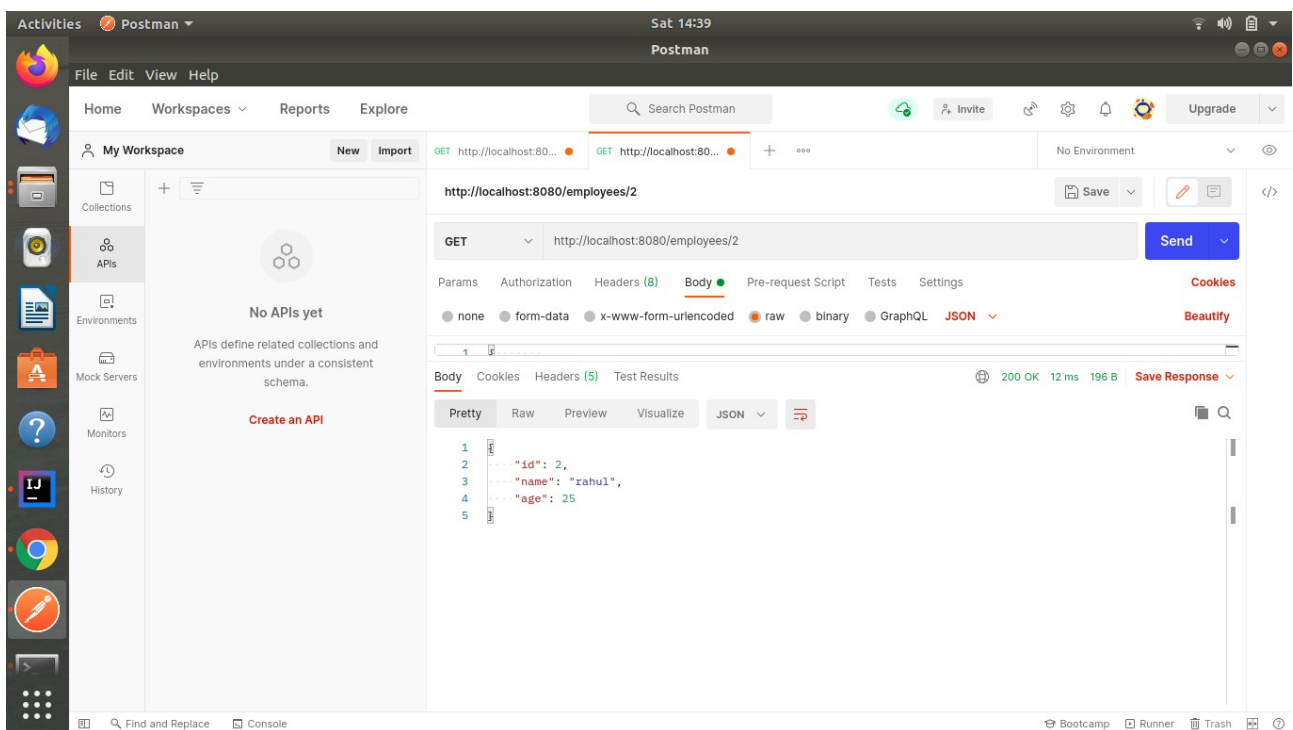
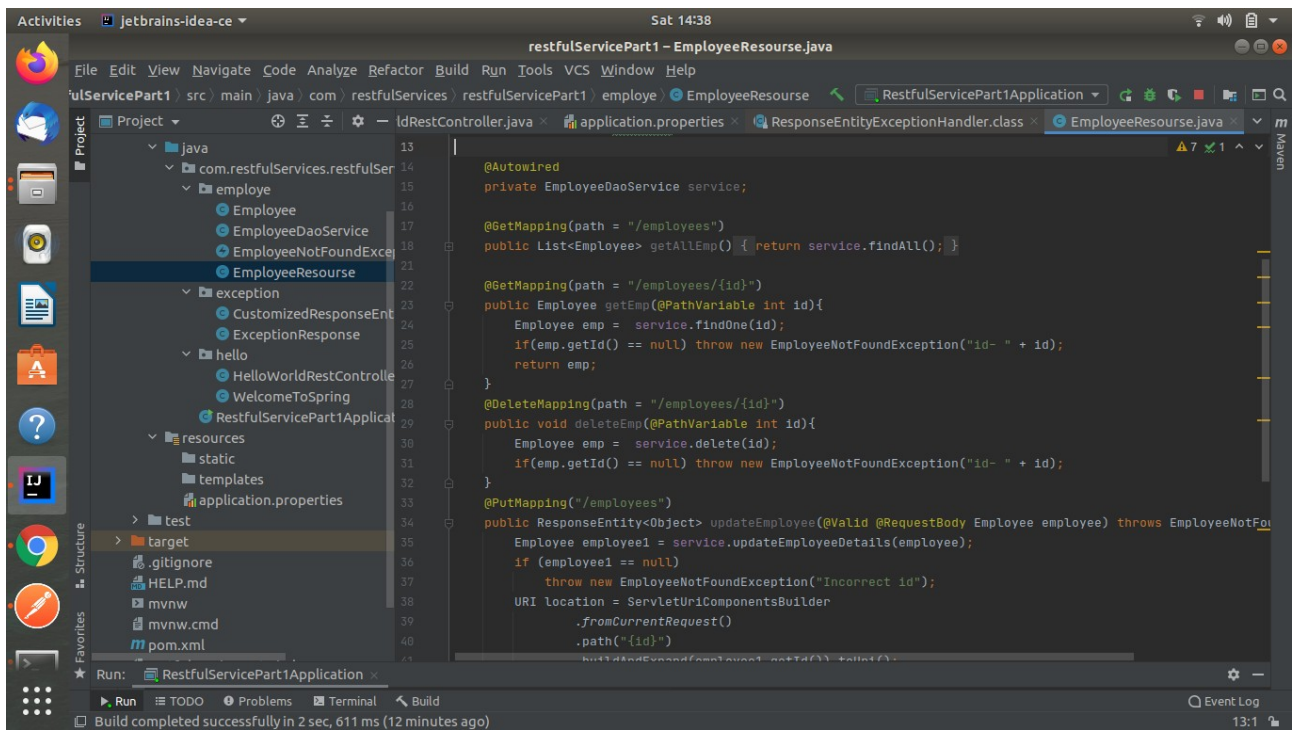




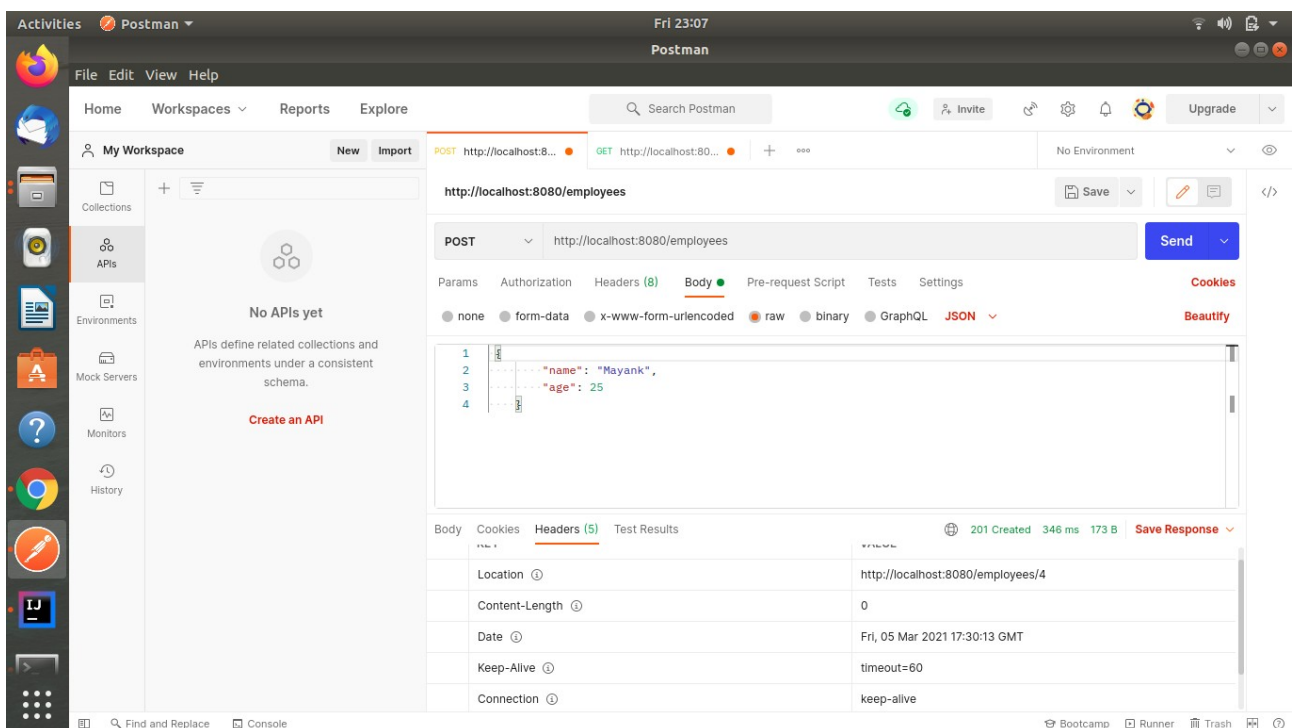
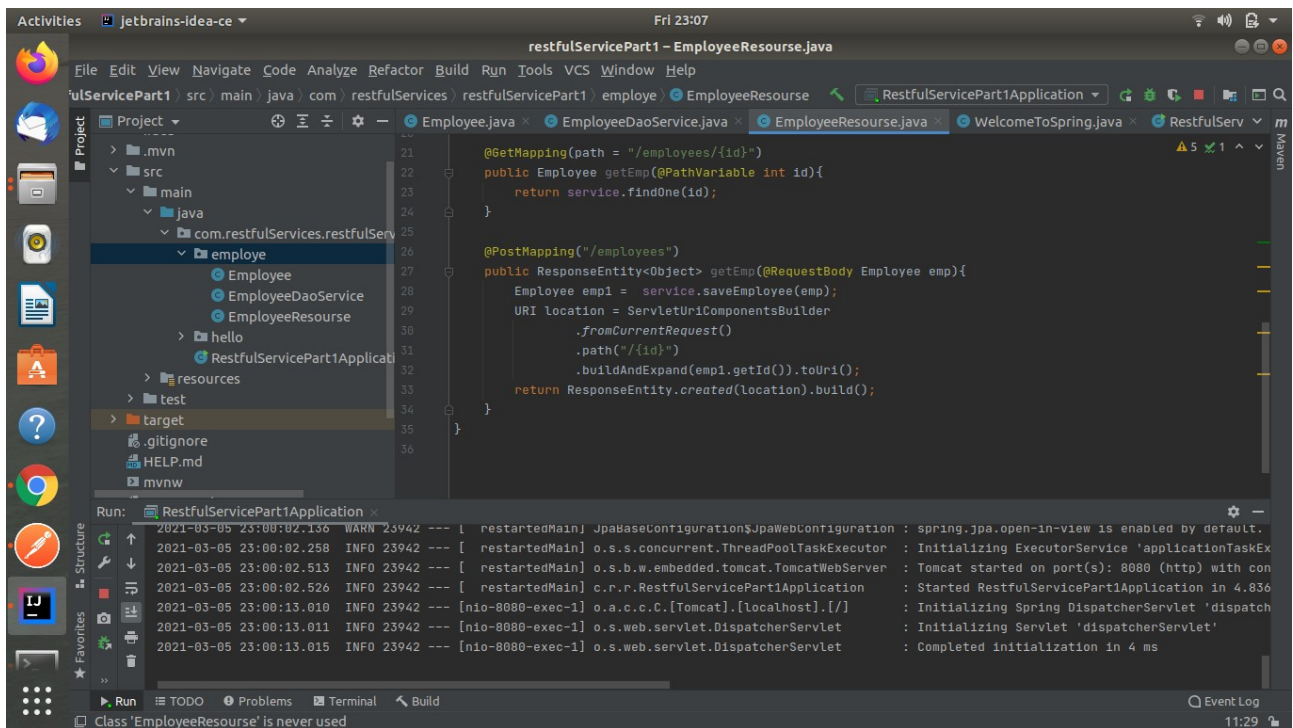
- Implement GET http request for Employee to get list of employees.



Q4: Implement GET http request using path variable top get one employee

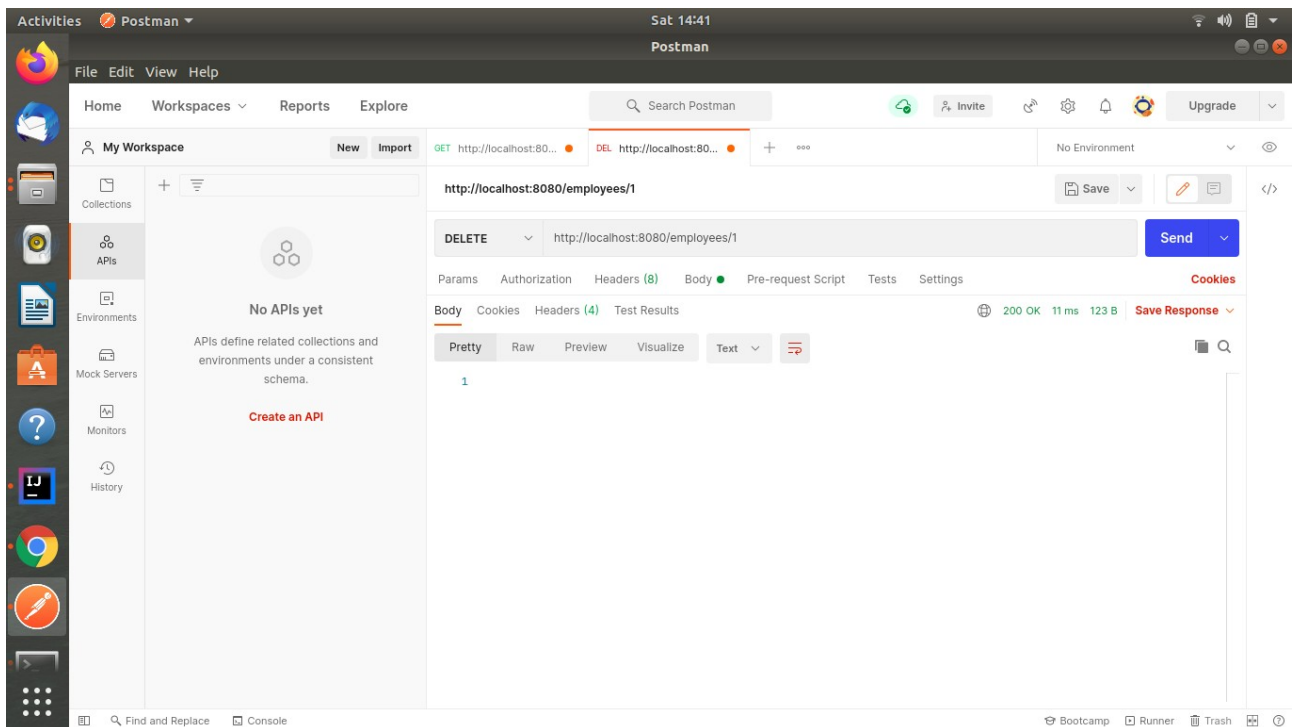
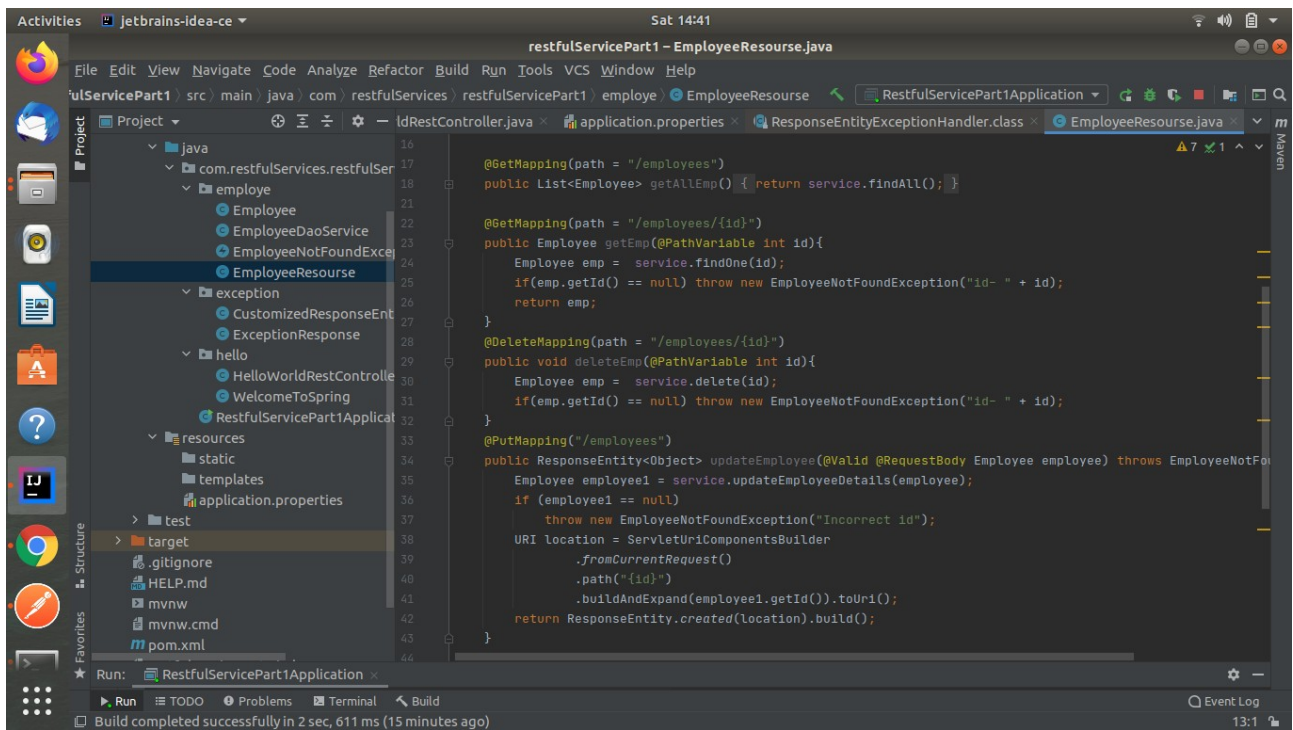


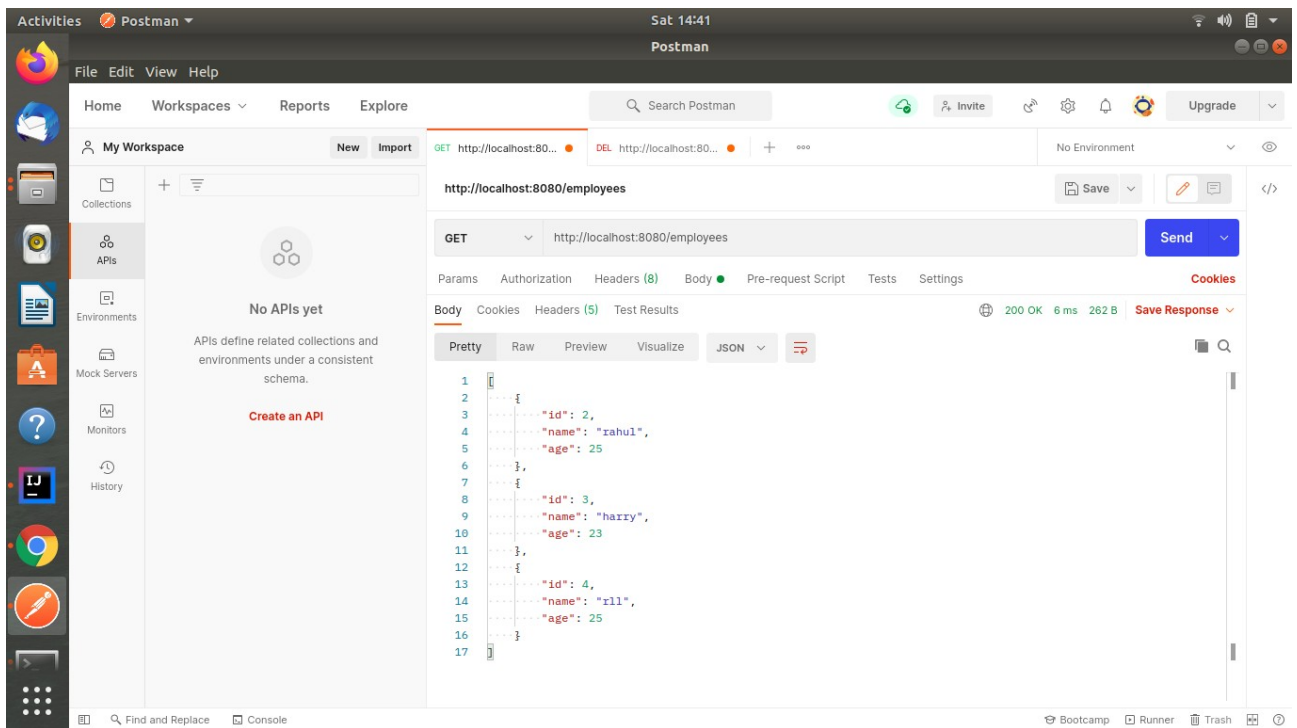
Q5: Implement POST http request for Employee to create a new employee.



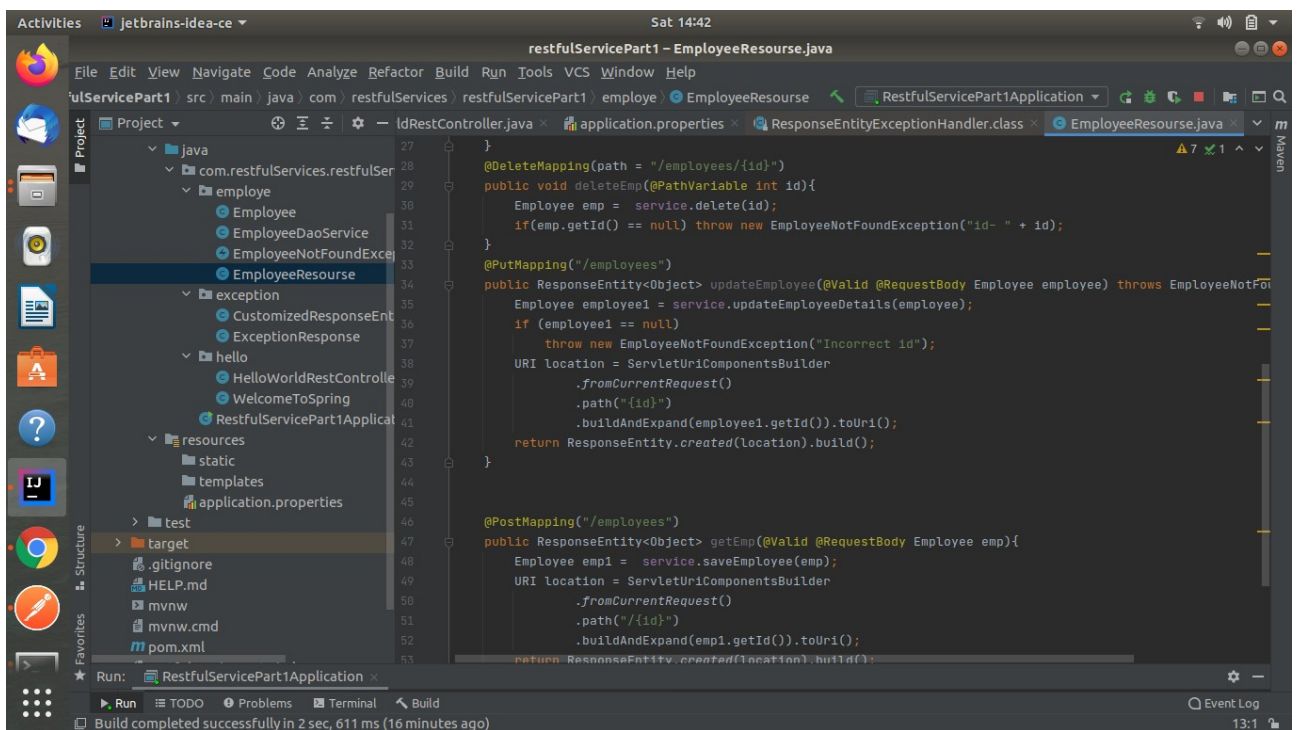
Q6: Implement Exception Handling for resource not found

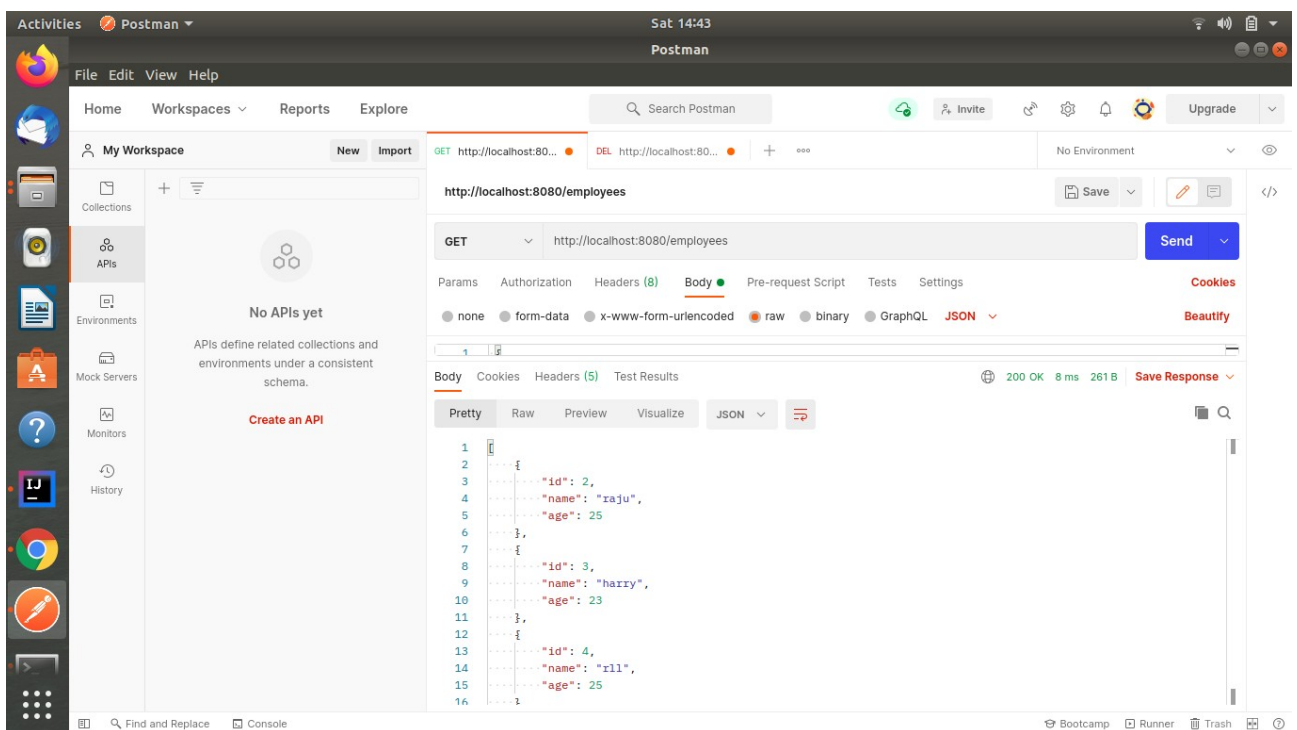
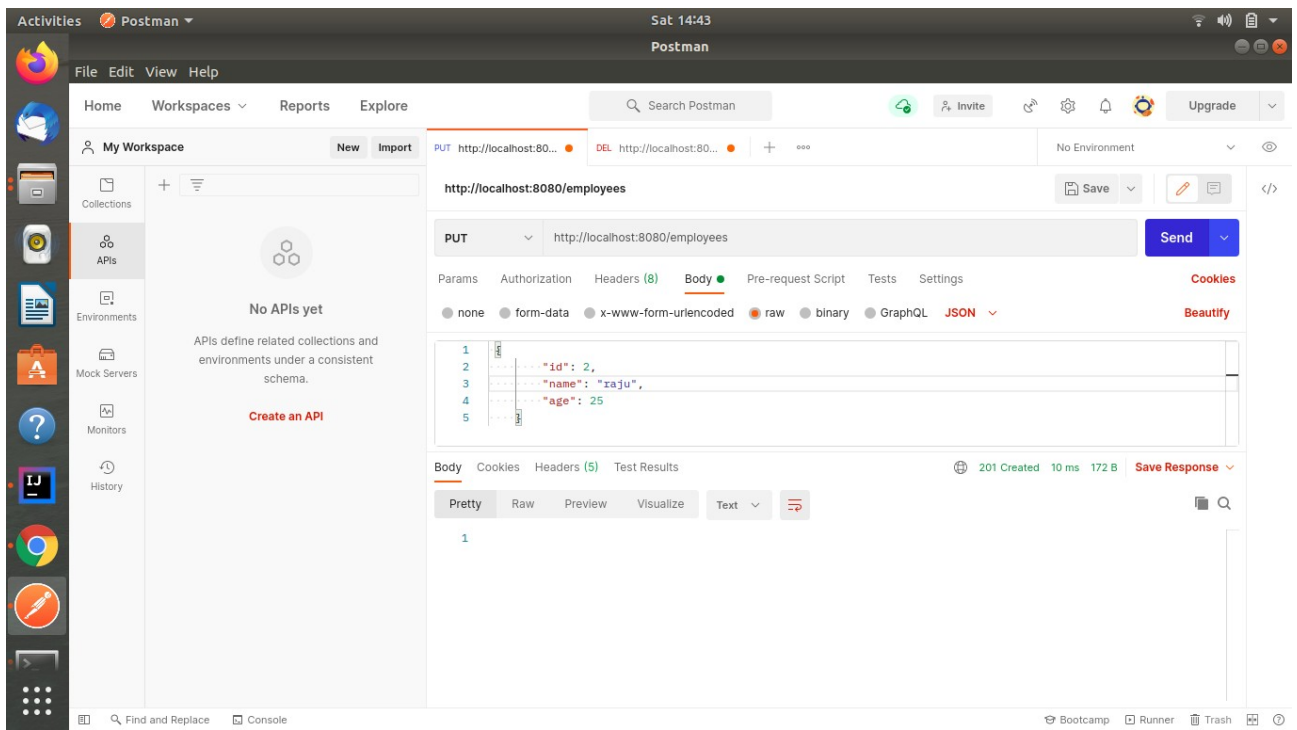
Q7: Implement DELETE http request for Employee to delete employee



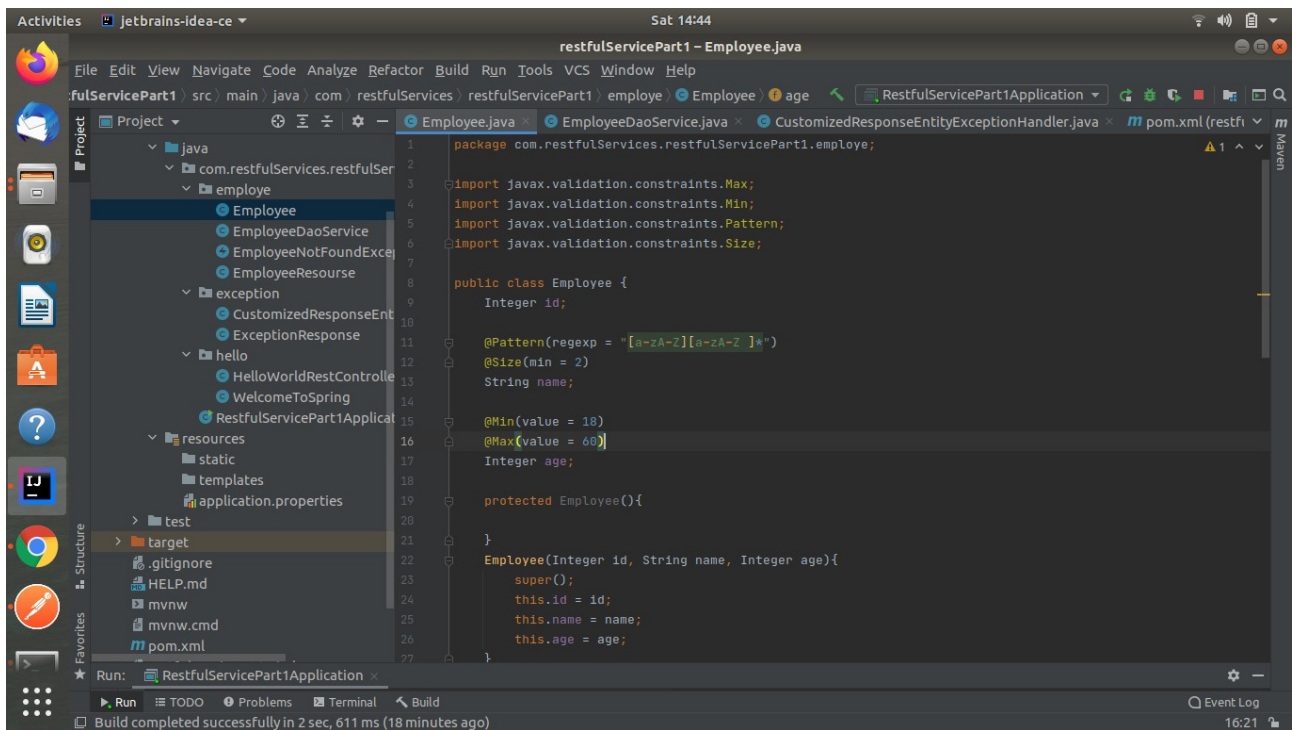
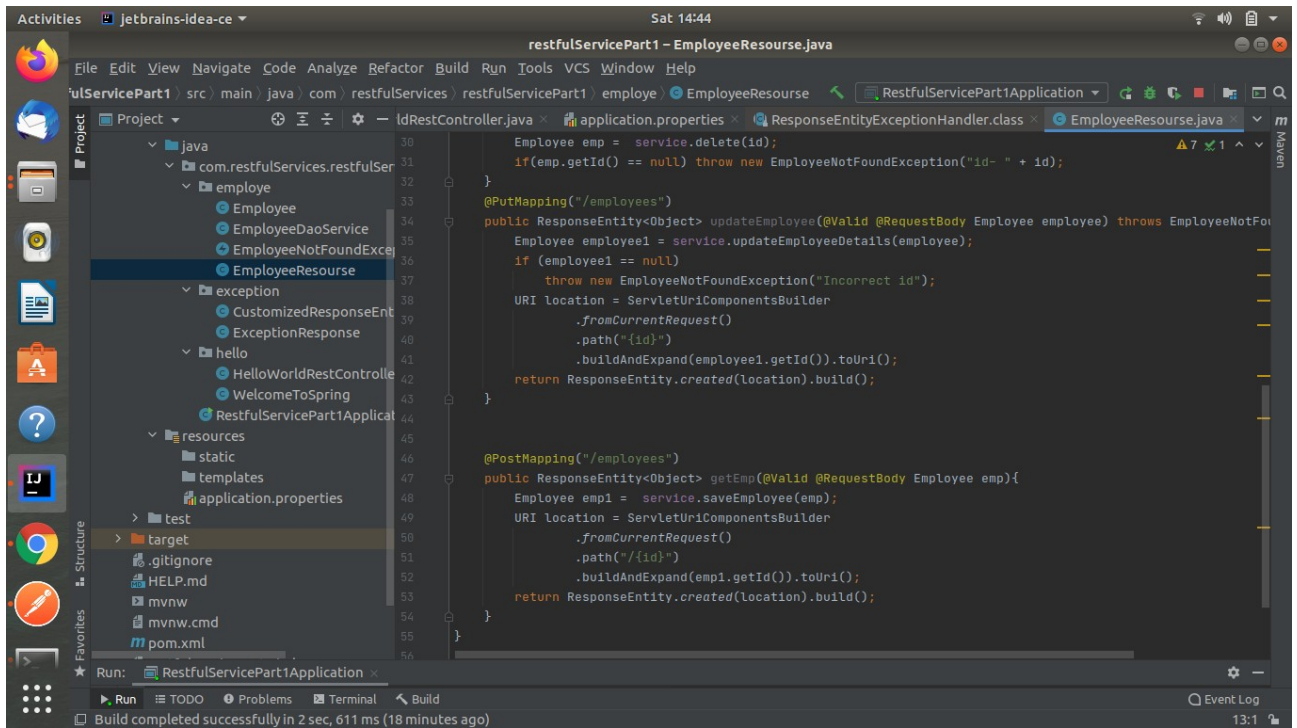


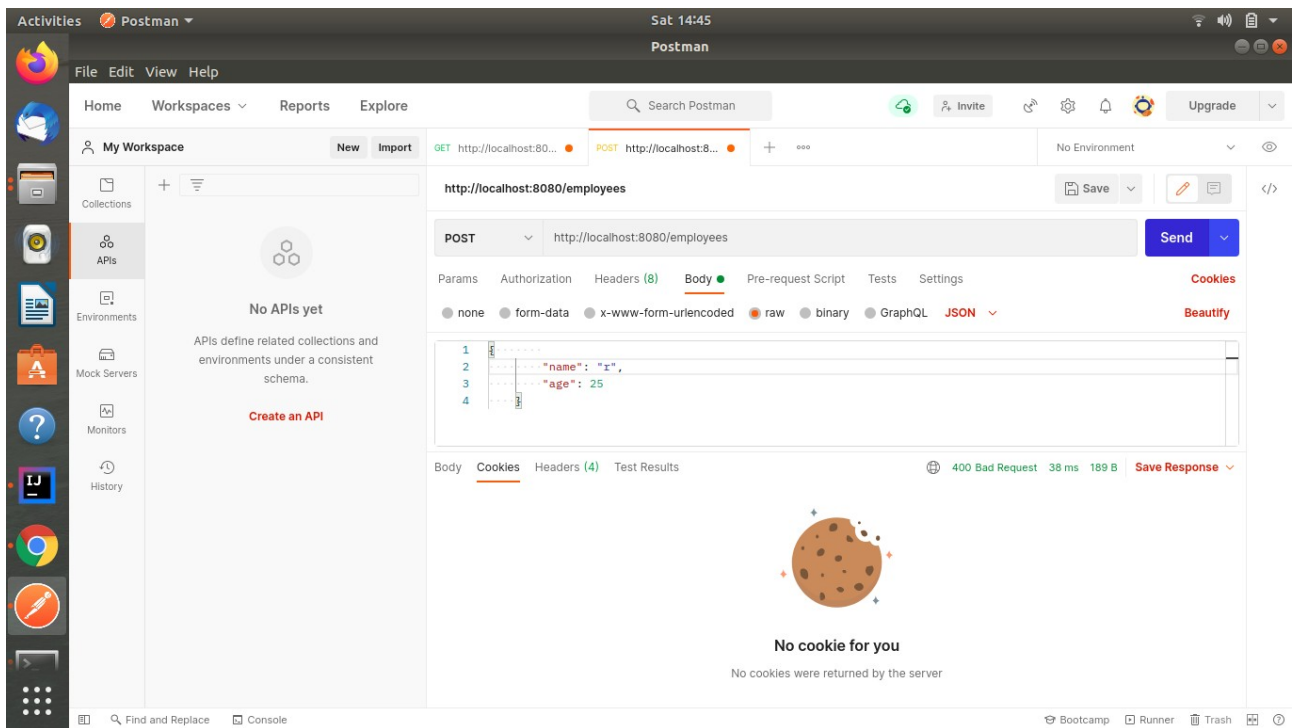
Q8: Implement PUT http request for Employee to update employee





Q9Apply validation while create a new employee using POST http Request.





Q10Configure actuator in your project to check the health of application and get the information about various beans configured in your application

