

MUSKAN LAMA
6648
GIT HUB LINK

Internationalization

1. Add support for Internationalization in your application allowing messages to be shown in English, German and Swedish, keeping English as default.
2. Create a GET request which takes "username" as param and shows a localized message "Hello Username". (Use parameters in message properties)

Employee .java BEAN class

```
package com.TTN.restfulday2.internationalizationHateos;
import org.springframework.hateoas.EntityModel;
//my bean class
public class Employee extends EntityModel<Employee> {
    private Integer id;
    private String userName;
    private Integer age;
    //constructor
    public Employee(Integer id, String name, Integer age) {
        this.id = id;
        this.userName = name;
        this.age = age;
    }
    public Integer getId() {
        return id;
    }

    public void setId(Integer id) {
        this.id = id;
    }
    public String getUserName() {
        return userName;
    }
    public void setName(String name) {
        this.userName = name;
    }
    public Integer getAge() {
        return age;
    }
    public void setAge(Integer age) {
```

```

        this.age = age;
    }
    @Override
    public String toString() {
        return "Employee{" +
            "id=" + id +
            ", name='" + userName + '\'' +
            ", age=" + age +
            '}';
    }
}

```

Controller class

```

package com.TTN.restfulday2.internationalizationHateos;

import static org.springframework.hateoas.server.mvc.WebMvcLinkBuilder.*;

import org.springframework.hateoas.EntityModel;
import org.springframework.hateoas.server.mvc.WebMvcLinkBuilder;
import com.TTN.restfulday2.exception.IdNotFoundException;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.context.MessageSource;
import org.springframework.context.i18n.LocaleContextHolder;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import org.springframework.web.servlet.support.ServletUriComponentsBuilder;

import java.net.URI;
import java.util.List;
import java.util.Locale;

@RestController
public class Controller {

    private MessageSource messageSource;

    @Autowired
    private Service service;

    public Controller(MessageSource messageSource)
    {
        this.messageSource=messageSource;
    }

    //using get mapping getting all list of employees

```

```

@GetMapping("/users")
public List<Employee> getAll()
{

    return service.findAll();
}

//getting Pathvariable
//Implement GET
// http request using path variable to get one employee
//HATEOS
@GetMapping("/users/{id}")
public EntityModel<Employee> retrieveUser(@PathVariable int id) throws
IdNotFoundException {
    Employee employee = service.findOne(id);

    if(employee==null)
        throw new IdNotFoundException("id:"+id);

    EntityModel<Employee> entityModel = EntityModel.of(employee);

    WebMvcLinkBuilder link = linkTo(methodOn(this.getClass()).getAll());
    entityModel.add(link.withRel("all-users"));

    return entityModel;
}

```

```

//apply Internationalization allowing message to display in english
@GetMapping(path="/hello")
public String helloNameInterNationalized()
{
    //requestheader
    //using locale to fetch from messages.properties

    Locale locale= LocaleContextHolder.getLocale();
    return messageSource.getMessage("hello.name.message",null,"Default
message", locale);
}

```

//GET request which takes "username" as param and shows a localized message "Hello Username". (Use parameters in message properties)

```

@GetMapping(path="/hello/{username}")
public String localized(@PathVariable String username)
{
    //using locale to fetch from messages.properties
    Locale locale2=LocaleContextHolder.getLocale();
    //creating array of strings to pass as a parameter
    String name[] = new String[]{username};
    //passing name as argument
    return messageSource.getMessage("userName",name,"Default
message", locale2);
}

```

```
}
```

Service.java

```
package com.TTN.restfulday2.internationalizationHateos;

import org.springframework.stereotype.Component;

import java.util.ArrayList;
import java.util.List;
import java.util.function.Predicate;

//methods

//managed by spring and it is autowired in Employee resource
@Component
public class Service {

    //list
    private static List<Employee> employees = new ArrayList<>();

    //setting up values of Employee bean
    static
    {
        employees.add(new Employee(12, "muskan", 23));
        employees.add(new Employee(13, "sofi", 22));
    }

    //returns all Employee data using List in json format
    public List<Employee> findAll()
    {
        return employees;
    }

    //method which will match and return the employee details according to id
    public Employee findOne(int id)
    {
        //functional programming
        Predicate<? super Employee> predicate =
            employee -> employee.getId() == (id);

        //concerting List to stream
        //orElse if id is not found to handle exception
        //but no response will come
        return employees.stream().filter(predicate).findFirst().orElse(null);
    }

    public Employee findUser(String userName)
    {
        //functional programming
        Predicate<? super Employee> predicate =
            employee -> employee.getUserName().equals(userName);
    }
}
```

```
        //concerting List to stream
        //orElse if id is not found to handle exception
        //but no response will come
        return employees.stream().filter(predicate).findFirst().orElse(null);
    }

}
```

messages.properties

```
#default english message
hello.name.message=hello
```

```
#passing parameter in message.properties
userName=Hello {0}
```

messages-de.properties

```
hello.name.message=hallo
```

messages-sv.properties



```
hello.name.message=Hallå
```

OUTPUT

English

http://localhost:8080/hello

Save



GET

http://localhost:8080/hello

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Query Params

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
	Key	Value	Description		

Body

Cookies

Headers (5)

Test Results

200 OK 95 ms 179 B

Save Response


Pretty



Raw

Preview

Visualize

JSON







1

hello

SWEDEN

http://localhost:8080/hello?=de

Save



</>

GET

http://localhost:8080/hello?=de

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Headers

6 hidden

	KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	Accept-Language	sv				
<input type="checkbox"/>	Accept	application/vnd.company.app-v1+json				
	Key	Value	Description			

Body

Cookies

Headers (5)

Test Results

200 OK 6 ms 170 B

Save Response


Pretty



Raw

Preview

Visualize

Text







1

Hallö

GERMAN

http://localhost:8080/hello?=de

Save



GET

http://localhost:8080/hello?=de

Send

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

Cookies

Headers

6 hidden

	KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input checked="" type="checkbox"/>	Accept-Language	de				
<input type="checkbox"/>	Accept	application/vnd.company.app-v1+json				
	Key	Value	Description			

Body

Cookies

Headers (5)

Test Results

200 OK 136 ms 168 B

Save Response


Pretty



Raw

Preview

Visualize

Text





1

hallo

Passing parameters in messages.properties

The screenshot displays a REST client interface for a GET request to `http://localhost:8080/hello/muskan`. The **Headers** tab is selected, showing a table with the following headers: KEY, VALUE, and DESCRIPTION. The table contains two entries: `Accept-Language: sv` (checked) and `Accept: application/vnd.company.app-v1+json` (unchecked). Below the headers, the **Body** tab is active, showing the response `Hello muskan` in a text format. The status bar at the bottom right indicates a `200 OK` response with 3 bytes.

KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/> Accept-Language	sv	
<input type="checkbox"/> Accept	application/vnd.company.app-v1+json	
Key	Value	Description

Body: `1 Hello muskan`

*Content Negotiation

3. Create POST Method to create user details which can accept XML for user creation.

4. Create GET Method to fetch the list of users in XML format

POST METHOD

```
//Apply validation while

// create a new employee using POST http Request.

// create user

@PostMapping(path="/users" ,produces = "application/xml ",consumes =
"application/xml")
public ResponseEntity<Employee> createUser(@RequestBody Employee employee)
//requestBody for creating objects of json data
{
    Employee save= service.save(employee) ;

    URI location= ServletUriComponentsBuilder.fromCurrentRequest()
        .path("/{age}")
        .buildAndExpand(save.getAge())
        .toUri();

    // to return the uri location of the created object
```

```

    return ResponseEntity.created(location).build(); // created and return the
uri
}

```

Output

POST http://localhost:8080/users Send

Params Authorization Headers (11) Body Pre-request Script Tests Settings Cookies

	KEY	VALUE	DESCRIPTION		Bulk Edit	Presets
<input type="checkbox"/>	Accept-Language	sv				
<input checked="" type="checkbox"/>	Accept	application/xml				
<input type="checkbox"/>	Content-Type	application/xml				
	Key	Value	Description			

Using accept

http://localhost:8080/users Save

POST http://localhost:8080/users Send

Params Authorization Headers (11) Body Pre-request Script Tests Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL XML

```

3 <id>17</id>
4 <userName>muskan Lama</userName>
5 <age>27</age>
6 </item>
7 </Employee>
8

```

Body Cookies Headers (5) Test Results 201 Created 8 ms 168 B Save Response

Pretty Raw Preview Visualize Text

1

Get

4. Create GET Method to fetch the list of users in XML format.

```

//getting Pathvariable
//Implement GET

```



```
// http request using path variable to get one employee
//HATEOS
//content negotiation
@GetMapping("/users/{id}")
public EntityModel<Employee> retrieveUser(@PathVariable int id) throws
IdNotFoundException {
    Employee employee = service.findOne(id);

    if(employee==null)
        throw new IdNotFoundException("id:"+id);

    EntityModel<Employee> entityModel = EntityModel.of(employee);

    WebMvcLinkBuilder link = linkTo(methodOn(this.getClass()).getAll());

    entityModel.add(link.withRel("all-users"));

    return entityModel;
}
```

Output

http://localhost:8080/users Save </>

GET Send http://localhost:8080/users

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Headers 6 hidden

	KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
<input type="checkbox"/>	Accept-Language	sv				
<input checked="" type="checkbox"/>	Accept	application/xml				
	Key	Value	Description			

Body Cookies Headers (5) Test Results 200 OK 22 ms 316 B Save Response

Pretty Raw Preview Visualize XML

```

1 <List>
2   <item>
3     <id>12</id>
4     <userName>muskan</userName>
5     <age>23</age>
6   </item>
7   <item>
8     <id>13</id>
9     <userName>sofi</userName>
10  </item>
11 </List>
```

*Swagger

5. Configure swagger plugin and create document of following methods:

Get details of User using GET request.

Save details of the user using POST request.

Delete a user using DELETE request.

7. In swagger documentation, add the description of each class and URI so that in swagger UI the purpose of class and URI is clear.

SpringConfig.java (to configure which path to document and all)

```
package com.TTN.restfulday2.swagger;

import org.springframework.context.annotation.Bean;
import org.springframework.context.annotation.Configuration;
import springfox.documentation.builders.PathSelectors;
import springfox.documentation.builders.RequestHandlerSelectors;
import springfox.documentation.spi.DocumentationType;
import springfox.documentation.spring.web.plugins.Docket;
import springfox.documentation.swagger2.annotations.EnableSwagger2;

import static springfox.documentation.builders.PathSelectors.regex;

@Configuration
@EnableSwagger2
public class SpringConfig {
    @Bean
    public Docket api() {

        return new Docket(DocumentationType.SWAGGER_2)
            .select()
            //selecting the base package
            .apis(RequestHandlerSelectors.basePackage("com.TTN.restfulday2.swagger"))
            .paths(PathSelectors.any())
            //select of the path
            .build();
    }
}
```

Swagger.java bean

```
{

    private String name;
```

```

private Integer age;

public Swagger(String name, Integer age) {
    this.name = name;
    this.age = age;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}

public Integer getAge() {
    return age;
}

public void setAge(Integer age) {
    this.age = age;
}

@Override
public String toString() {
    return "Swagger{" +
        "name='" + name + '\'' +
        ", age=" + age +
        '}';
}
}

```

Controller.java

```

package com.TTN.restfulday2.swagger;

import java.net.URI;

import io.swagger.annotations.ApiOperation;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.ResponseEntity;
import org.springframework.web.bind.annotation.*;
import org.springframework.web.servlet.support.ServletUriComponentsBuilder;

import java.net.URI;
import java.util.List;

@RestController
public class SwaggerControll {

    @Autowired
    private SwaggerResource swaggerResource;

```

```

public SwaggerControll(SwaggerResource swaggerResource) {

    this.swaggerResource = swaggerResource;
}

//getting all the Employee
//mapping to specific url using GET
@GetMapping(path="/swag")
@ApiOperation(value = "List all Users",
    notes = "List all Users using it's service method", response =
Swagger.class)
public List<Swagger> getAll()
{

    return swaggerResource.findAll();
}

//DELETE
@DeleteMapping(path="/swag/{age}")
@ApiOperation(value = "Deletes the User",
    notes = "Deletes the user associated with the passed AGE", response =
Swagger.class)
public void delete(@PathVariable int age)
{

    //deleting
    swaggerResource.delete(age);
}

//Apply validation while
// create a new employee using POST http Request.
// create user
@PostMapping(path="/swag")
@ApiOperation(value = "Creates new User",
    notes = "Creates new user using it's service method", response =
Swagger.class)
public ResponseEntity<Swagger> createUser(@RequestBody Swagger swagger)
//requestBody for creating objects of json data
{

    Swagger save= swaggerResource.save(swagger);
}

```

```

        URI location= ServletUriComponentsBuilder.fromCurrentRequest()
            .path("/{age}")
            .buildAndExpand(save.getAge())
            .toUri();
        // to return the uri location of the created object

        return ResponseEntity.created(location).build(); // created and return
the uri
    }
}

```

SwaggerResource.java

```

import org.springframework.stereotype.Component;

import java.util.ArrayList;
import java.util.List;

@Component
public class SwaggerResource
{

    //list
    private static List<Swagger> swaggers = new ArrayList<>();

    //setting up values
    static
    {
        swaggers.add(new Swagger("muskan", 23));
        swaggers.add(new Swagger("sofi", 22));
    }

    //returns all Employee data using List in json format
    public List<Swagger> findAll()
    {
        return swaggers;
    }

    // and return it and display in json
    public Swagger save (Swagger swagger)
    {
        swaggers.add(swagger);
        return swagger;
    }
}

```

```

    }

    //method to delete
    public void delete ( int age)
    {
        //deleting by id
        swaggers.removeIf(e -> e.getAge().equals(age));
    }
}

```

Output

The screenshot displays the Swagger UI interface in a web browser. The address bar shows the URL `localhost:8080/swagger-ui.html#/swagger-control`. The Swagger logo is in the top left, and a dropdown menu labeled "Select a spec" shows "default" selected. The main heading is "Api Documentation" with a version badge "1.0". Below this, it lists the base URL as `localhost:8080/` and provides links for "Terms of service" and "Apache 2.0". The API is titled "swagger-control" with the description "Swagger Control". Three endpoints are listed:

- GET** `/swag` List all Users
- POST** `/swag` Creates new User
- DELETE** `/swag/{age}` Deletes the User

*Static and Dynamic filtering

8. Create API which saves details of User (along with the password) but on successfully saving returns only non-critical data. (Use static filtering)

9. Create another API that does the same by using Dynamic Filtering.

FilteringController.java

```
package com.TTN.restfulday2.staticAndDynamicFiltering;
import com.TTN.restfulday2.internationalizationHateosCN.Service;
import com.fasterxml.jackson.databind.ser.FilterProvider;
import com.fasterxml.jackson.databind.ser.impl.SimpleBeanPropertyFilter;
import com.fasterxml.jackson.databind.ser.impl.SimpleFilterProvider;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.converter.json.MappingJacksonValue;
import org.springframework.stereotype.Component;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
@Component
public class FilteringController {

    @Autowired
    private Service service;

    //static filtering
    @GetMapping("/filtering")
    public UserDetails filtering(UserDetails userDetails)
    {
        return new UserDetails("value1",12,"value3");
    }

    //dynamic filtering
    @GetMapping("/filtering-dynamic")
    public MappingJacksonValue filteringDynamic(UserDetails userDetails)
    {
        UserDetails userDetails3= new UserDetails("value2",34,"value4");
        MappingJacksonValue mappingJacksonValue=new
MappingJacksonValue(userDetails3);
        SimpleBeanPropertyFilter filter =
            SimpleBeanPropertyFilter.filterOutAllExcept("name","age");
        FilterProvider filters =
            new SimpleFilterProvider().addFilter("SomeBeanFilter", filter
);
        mappingJacksonValue.setFilters(filters );
        return mappingJacksonValue;
    }
}
```

```

ServiceSD.class
package com.TTN.restfulday2.staticAndDynamicFiltering;

import org.springframework.stereotype.Component;

import java.util.ArrayList;
import java.util.List;

//methods

//managed by spring and it is autowired in Employee resource
@Component
public class ServiceSD {

    //list
    private static List<UserDetails> userDetailsList = new ArrayList<>();

    //setting up values of Employee bean
    static {
        userDetailsList.add(new UserDetails("Muskan", 22, "3rewr"));
        userDetailsList.add(new UserDetails("Geetanjali", 32, "3sjd"));

    }

}

```

```

UserDetails.java
import net.minidev.json.annotate.JsonIgnore;
import org.springframework.stereotype.Component;

@JsonFilter("SomeBeanFilter")
public class UserDetails {

    @JsonIgnore
    private String name;
    private Integer age;
    private String password;

    public UserDetails(String name, Integer age, String password) {
        this.name = name;
        this.age = age;
        this.password = password;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public Integer getAge() {
        return age;
    }

    public void setAge(Integer age) {
        this.age = age;
    }
}

```



```

    }

    public String getPassword() {
        return password;
    }

    public void setPassword(String password) {
        this.password = password;
    }

    @Override
    public String toString() {
        return "UserDetails{" +
            "name='" + name + '\'' +
            ", age=" + age +
            ", password='" + password + '\'' +
            '}';
    }
}

```

Output

Static filtering

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```

- <UserDetails>
  <name>value1</name>
  <age>12</age>
  <password>value3</password>
</UserDetails>

```

Dynamic filtering

← → ↻ localhost:8080/filtering-dynamic

This XML file does not appear to have any style information associated with it. The document tree

```

- <UserDetails>
  <name>value2</name>
  <age>34</age>
</UserDetails>

```

*Versioning Restful APIs

10. Create 2 API for showing user details. The first api should return only basic details of the user and the other API should return more/enhanced details of the user,

Now apply versioning using the following methods:

- `MimeType Versioning`
- `Request Parameter versioning`
- `URI versioning`
- `Custom Header Versioning`
-

`UserV1.java`

```
package com.TTN.restfulday2.versioning;

public class UserV1 {
    private String name;

    @Override
    public String toString() {
        return "UserV1{" +
            "name='" + name + '\'' +
            '}';
    }

    public String getName() {
        return name;
    }

    public UserV1(String name) {
        this.name = name;
    }
}
```

UserV2.java

```
package com.TTN.restfulday2.versioning;

public class UserV2 {

    private String firstName;
    private String lastName;

    public UserV2(String firstName, String lastName) {
        this.firstName = firstName;
        this.lastName = lastName;
    }

    public String getFirstName() {
        return firstName;
    }

    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }

    @Override
    public String toString() {
        return "UserV2{" +
            "firstName='" + firstName + '\'' +
            ", lastName='" + lastName + '\'' +
            '}';
    }
}
```

VersionController.java

```
package com.TTN.restfulday2.versioning;

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

@RestController
public class VersionController {

    //uri
    @GetMapping("v1/user")
    public UserV1 userV1() {
        return new UserV1("muskan");
    }

    @GetMapping("v2/user")
    public UserV2 userV2() {
        return new UserV2("Muskan", "lama");
    }

    //params
}
```

```

    @GetMapping(path = "/user", params = "version=1")
    public UserV1 requestParameterVersioning1() {
        return new UserV1("Muskan");
    }

    @GetMapping(path = "/user", params = "version=2")
    public UserV2 requestParameterVersioning2() {
        return new UserV2("Muskan", "lama");
    }

    //headres cutom request headers
    @GetMapping(path = "/user/head", headers="X-API-VERSION=1")
    public UserV1 requestHeader1() {
        return new UserV1("Muskan");
    }

    @GetMapping(path = "/user/head", headers="X-API-VERSION=2")
    public UserV2 requestHeader2() {
        return new UserV2("Muskan", "lama");
    }

    //media type nversioning
    @GetMapping(path = "/user/accept", produces =
"application/vnd.company.app-v1+json")
    public UserV2 requestMIME() {
        return new UserV2("Muskan", "lama");
    }

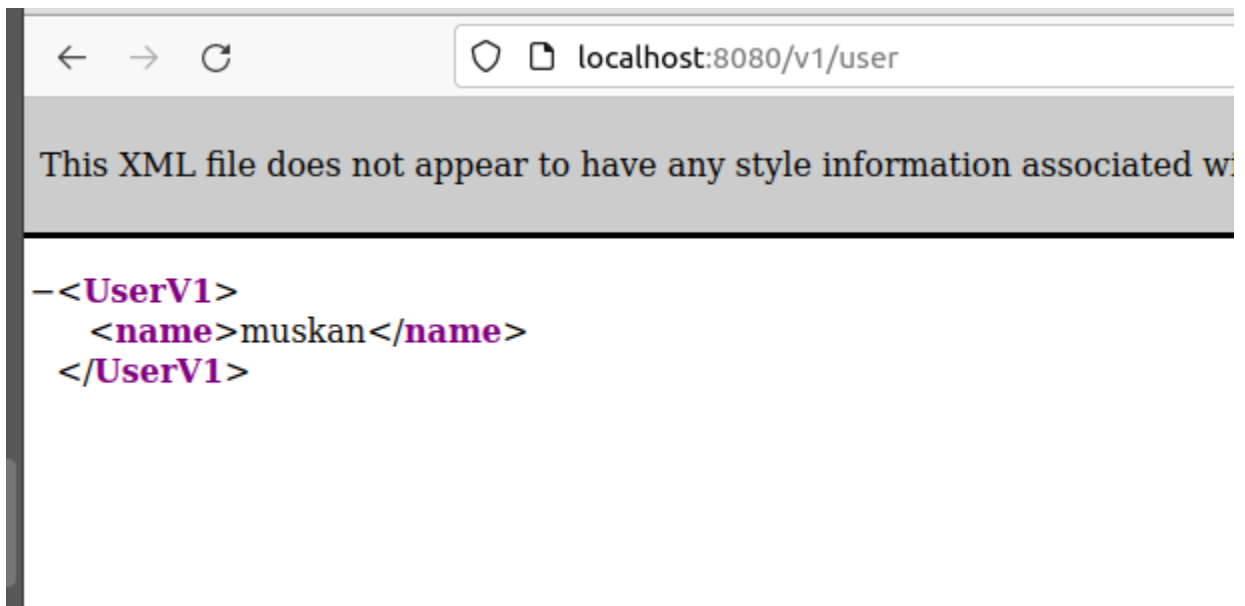
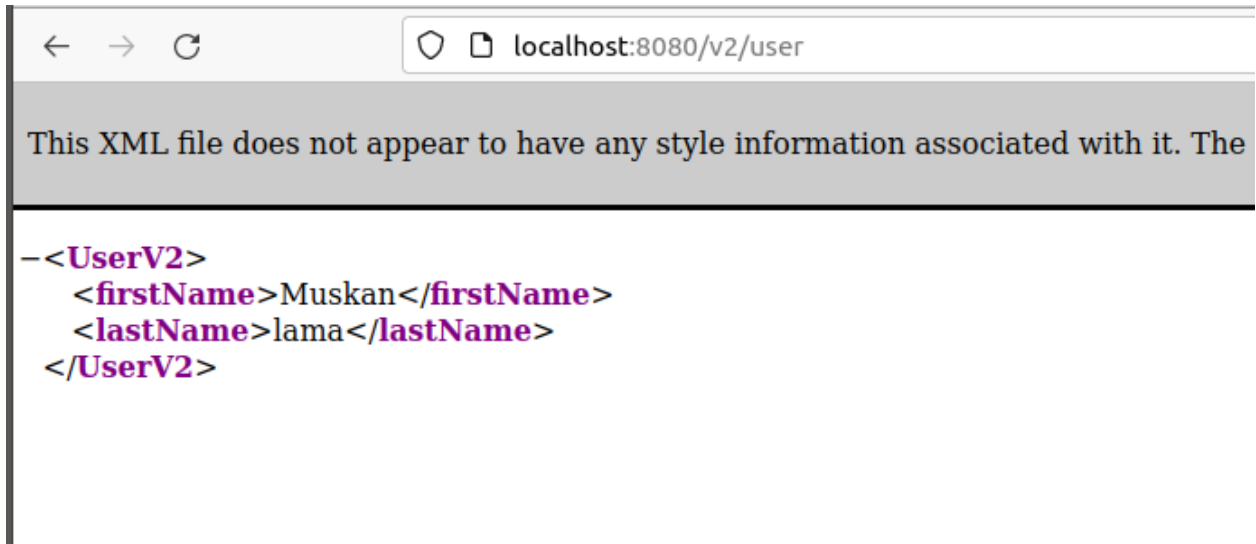
    @GetMapping(path = "/user/accept", produces =
"application/vnd.company.app-v2+json")
    public UserV1 requestMIME2() {
        return new UserV1("Muskan");
    }

}

```

OUTPUT

Uri mapping



Request Parameter versioning

← → ↻ localhost:8080/users?version=2

This XML file does not appear to have any style information associated with it. The document tree is

```
-<List>
  -<item>
    <id>12</id>
    <userName>muskan</userName>
    <age>23</age>
  </item>
  -<item>
    <id>13</id>
    <userName>sofi</userName>
    <age>22</age>
  </item>
</List>
```

← → ↻ localhost:8080/users?version=1

This XML file does not appear to have any style information associated with it. The

```
-<List>
  -<item>
    <id>12</id>
    <userName>muskan</userName>
    <age>23</age>
  </item>
  -<item>
    <id>13</id>
    <userName>sofi</userName>
    <age>22</age>
  </item>
</List>
```

Custom Header Versioning

http://localhost:8080/user/head Save Send </>

GET http://localhost:8080/user/head Send

Params Authorization **Headers (13)** Body ● Pre-request Script Tests Settings Cookies

<input type="checkbox"/>	Accept	application/xml	
<input type="checkbox"/>	Content-Type	application/xml	
<input type="checkbox"/>	Accept	X-API-VERSION=1	
<input checked="" type="checkbox"/>	X-API-VERSION	2	
	Key	Value	Description

Body Cookies Headers (5) Test Results 200 OK 5 ms 204 B Save Response

Pretty Raw Preview Visualize JSON Copy Search

```
1 {
2   "firstName": "Muskan",
3   "lastName": "lama"
4 }
```

http://localhost:8080/user/head Save Send </>

GET http://localhost:8080/user/head Send

Params Authorization **Headers (13)** Body ● Pre-request Script Tests Settings Cookies

<input type="checkbox"/>	Accept	application/xml	
<input type="checkbox"/>	Content-Type	application/xml	
<input type="checkbox"/>	Accept	X-API-VERSION=1	
<input checked="" type="checkbox"/>	X-API-VERSION	1	
	Key	Value	Description

Body Cookies Headers (5) Test Results 200 OK 6 ms 181 B Save Response

Pretty Raw Preview Visualize JSON Copy Search

```
1 {
2   "name": "Muskan"
3 }
```

MimeType Versioning

http://localhost:8080/user/accept

Save

Send

GET http://localhost:8080/user/accept

Params Authorization **Headers (13)** Body Pre-request Script Tests Settings Cookies

<input type="checkbox"/>	Accept	application/xml	
<input type="checkbox"/>	Content-Type	application/xml	
<input checked="" type="checkbox"/>	Accept	application/vnd.company.app-v2+json	
<input type="checkbox"/>	X-API-VERSION	2	
	Key	Value	Description

Body Cookies Headers (5) Test Results 200 OK 5 ms 200 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "name": "Muskan"
3 }
```

http://localhost:8080/user/accept

Save

Send

GET http://localhost:8080/user/accept

Params Authorization **Headers (13)** Body Pre-request Script Tests Settings Cookies

<input type="checkbox"/>	Accept	application/xml	
<input type="checkbox"/>	Content-Type	application/xml	
<input checked="" type="checkbox"/>	Accept	application/vnd.company.app-v1+json	
<input type="checkbox"/>	X-API-VERSION	2	
	Key	Value	Description

Body Cookies Headers (5) Test Results 200 OK 7 ms 223 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "firstName": "Muskan",
3   "lastName": "lama"
4 }
```


*HATEOAS

11. Configure hateoas with your springboot application. Create an api which returns User Details along with url to show all topics.

```
//getting Pathvariable
//Implement GET
// http request using path variable to get one employee
//HATEOAS
//content negotiation
@GetMapping("/users/{id}")
public EntityModel<Employee> retrieveUser(@PathVariable int id) throws
IdNotFoundException {
    Employee employee = service.findOne(id);

    //throwing exception when id is not found
    if(employee==null)
        throw new IdNotFoundException("id:"+id);

    //using entity model
    // represents RepresentationModel containing only single entity and related
links
    EntityModel<Employee> entityModel = EntityModel.of(employee);
    //we can use WebMvcLinkBuilder to create links pointing to controller
classes and it's methods.
    WebMvcLinkBuilder link = linkTo(methodOn(this.getClass()).getAll());
    // adding link
    entityModel.add(link.withRel("all-users"));

    return entityModel;
}
```

Output

http://localhost:8080/users/12

Save Send

GET http://localhost:8080/users/12

Send

Params Authorization Headers (13) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (5) Test Results

200 OK 8 ms 268 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "id": 12,
3    "userName": "muskan",
4    "age": 23,
5    "_links": {
6      "all-users": {
7        "href": "http://localhost:8080/users"
8      }
9    }
10 }
```