

## **LAB-Spring Mvc - Hateos**

In this lab you will be understanding how to add links to your responses

## STEP-1

In this step, you will be working on **03rest-hateos-start** project

Run the Test.java 25 times so that dummy data will be populated with 25 clusters

1) Open ClusterResourceCreator.java

Link for methods on controller can be created Using ControllerLinkBuilder .

To create links for methods on **ClusterController**, you can obtain ControllerLinkBuilder as shown below:

ControllerLinkBuilder controllerLinkBuilder=ControllerLinkBuilder.linkTo(ClusterController.class);

This link builder will have a link to /clusters.

If you want to create link for /clusters/{clusterId}, you can do as below: controllerLinkBuilder=controllerLinkBuilder.slash(cluster.getClusterId());

To get a Link with rel as self, you can do as below:

Link selfLink=controllerLinkBuilder.withSelfRel();

But the above process is too verbose.

So, you can do the same as shown below:

ClusterController clusterController=ControllerLinkBuilder.methodOn(ClusterController.class);

will give you a proxy of ClusterController which can record the method invocations.

ClusterDTO clusterDTO2= clusterController.getClusterById(clusterDTO.getClusterId());

will give you a proxy of ClusterDTO which has recorded the method invocations.

Then we can create a Link using

Link selfLink=ControllerLinkBuilder.linkTo(clusterDTO2).withSelfRel();



All of the above can be done in a single step as shown below:

Now complete TODO-1 in ClusterResourceCreator by initializing selfLink using above code.

Complete TODO-2 also

Complete TODO-3 using below code

Complete TODO-4 and TODO-5

- 2) Complete TODO-6 and TODO-7 in DeploymentResourceCreator
- 3) Complete TODO-8, TODO-9, TODO-10 in ServerResourceCreator
- 4) So, Now we have 2 ResourceCreators : DeploymentResourceCreator, ServerResourceCreator and ClusterResourceCreator.
- 5) Observe all the controller methods how we are calling methods on these resource creators.
- 4) Now deploy the application and give request to /clusters in POSTMAN. It should show all the links.

Follow all the links by making requests to those links.

Congratulations!! You know how to add links to responses