Spring Boot - Data Rest

Spring Data Rest is a spring boot project but it's like a more advanced and less coding application. There are three new concepts in Spring Data Rest -

Configuration

It adds 's' automatically to the entity. You can also give path for your URL Add @RepositoryRestResource(path="members") annotation at top of Repository interface.

Pagination

change default page size spring.data.rest.default-page-size=3

Sorting

http://localhost:8080/magic-api/members?sort=age ---default in ascending http://localhost:8080/magic-api/members?sort=age ---in descending

Steps to develop CRUD application-

- Go to https://start.spring.io/ and kick start your project. Add necessary dependencies like Spring Data JPA, Spring Web, Spring Boot DevTools, MySql Driver, spring-boot-starter-data-rest. Select as maven and enter.
- 2. Import as maven project and check pom for dependencies we added.
- 3. Create entity class in entity package and write the required code with annotations, getters and setters, toString() and constructors.
- Create a JpaRepository interface extending "org.springframework.data.jpa.repository.JpaRepository<T, ID>" extension. After this just replace <T, ID> with <Entity_name, Integer>, Add @RepositoryRestResource(path="members") annotation at top of Repository interface.
- In resources>application.properties file add the highlighted code below in your existing CURD properties code

spring.datasource.url=jdbc:mysql://localhost:3306/employee_directory?useSS L=false

spring.datasource.username=root

spring.datasource.password=root

spring.datasource.hikari.maximum-pool-size=100

spring.datasource.hikari.minimum-idle=10

spring.jpa.show-sql=true logging.level.web=DEBUG

Spring Data Rest Properties
spring.data.rest.base-path=/magic-api //for url path use magic-api/members
change default page size
spring.data.rest.default-page-size=20

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- 6. After doing the necessary coding in the above classes, run the project as an application and after it is up in IDE, check localhost:8080/ in Browser.
- 7. Do CRUD operations in postman with the same URL from the browser and verify from the database.

http://localhost:8080/employees

GET- http://localhost:8080/magic-api/employees
POST- http://localhost:8080/magic-api/employees
PUT- http://localhost:8080/magic-api/employees/13
DELETE- http://localhost:8080/magic-api/employees/13

8. Find the code, postman collections and SQL query here: https://github.com/Leaf-Co-Kb/Employee-Managment-Data-Rest.