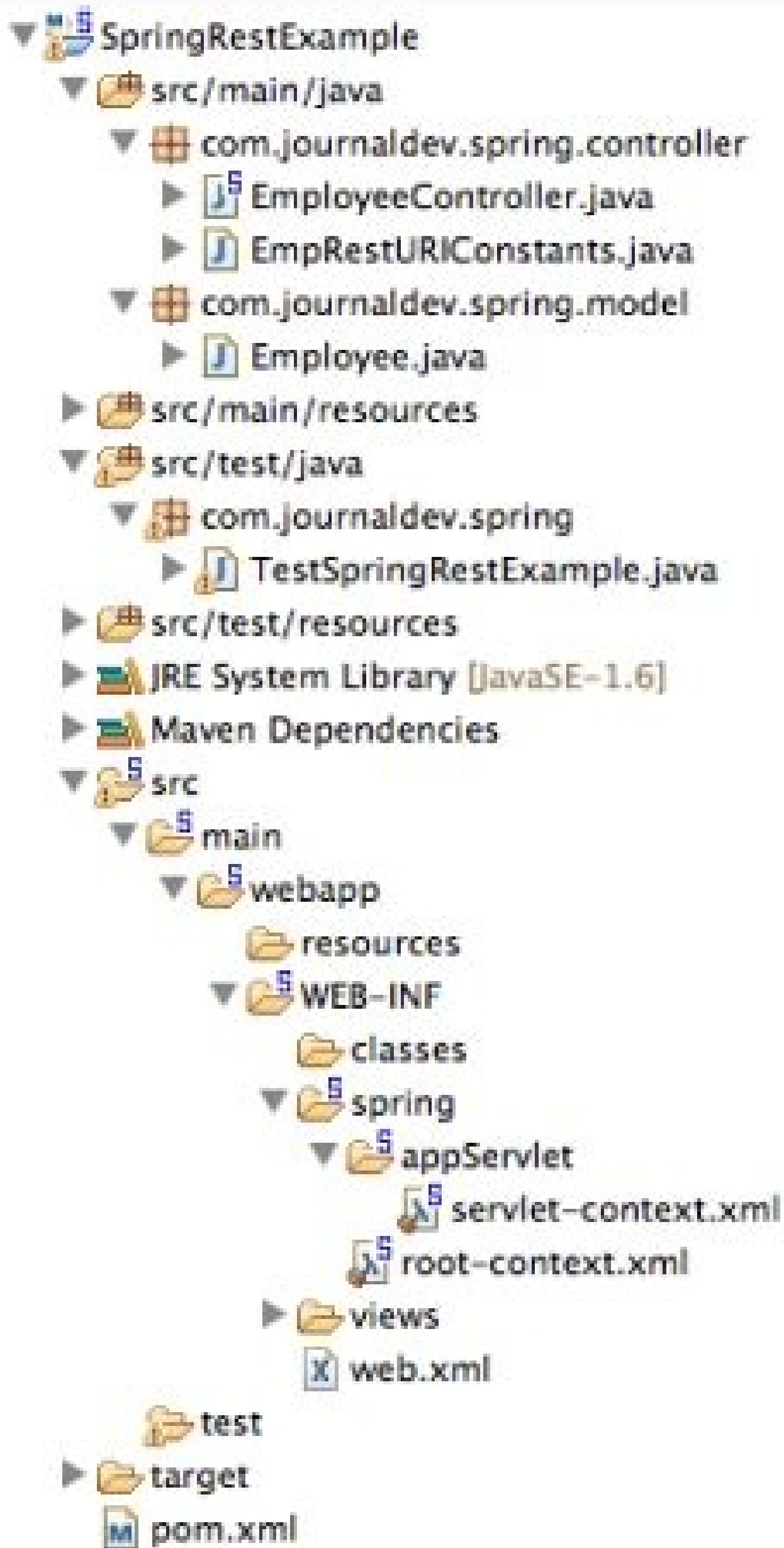


I'm not robot!



## 5 Signs You Need A Spring Reset

Empowering Health



clienthaljavaresttemplatespring-hateoas I have two applications, one is called bar, what provides me resources in HAL format. The other is bcm to consume that service. Example of response bar looks like this: { "name": "Brenner/in", "links": { "self": { "href": "...host/bbsng-app-rest/betrieb/15" } }, { "name": "Dienstleistungshelfer/in HW", "links": { "self": { "href": "...host/bbsng-app-rest/betrieb/4" } } }, { ... Now I try to consume that from bcm using Spring RestTemplate. My Solution works, but I am not happy with that solution somehow and I guess there is a more clean way. My Client-Code consuming RestService looks like: @Autowired private RestTemplate template; @Override @SuppressWarnings("unchecked") public BerufeListe findeAlleBerufe() { final BerufeListe berufeListe = new BerufeListe(); final ResponseEntity entity = template.getForEntity(LinkUtils.findBeruf(), List.class); if (OK.equals(entity.getStatusCode())) { final List body = entity.getBody(); for (final LinkedHashMap map : body) { final LinkedHashMap idMap = (LinkedHashMap) map.get("links"); String id = remove(String.valueOf(idMap.get("self")), "href="); id = remove(id, "("); id = remove(id, ")"); final String name = String.valueOf(idMap.get("name")); final BerufeListe berufeListe = new BerufeListe(); berufeListe.add(berufe); } } return berufeListe; } There are few ugly code as you see. One of them is, that I don't have any generics for my collections. The other point, I get the Resource ID very complicated, and I use StringUtils.remove many times to extract the self url. I am sure there must be a more convenient way to consume HAL-Response by Spring. Thanks you. Learn to build hateoas links for REST resources using RepresentationModel and RepresentationModelAssemblerSupport in a Spring boot application. 1. Spring HATEOAS 1.x Changes Spring HATEOAS 1.x module has gone through some major changes including package structure and class names, as compared to older version. Let's discuss some important classes now used in 1.x. 1.1. Important classes RepresentationModel - is a container for a collection of Links and provides APIs to add those links to the model. EntityModel - represents RepresentationModel containing only single entity and related links. public class ActorModel extends RepresentationModel { // attributes } CollectionModel - is a wrapper for a collection of entities (entity as well as collection). To create collection models, use it's constructors (e.g. CollectionModel(List) or CollectionModel(Iterable)) or toCollectionModel() provided by model assemblers. public class AlbumModelAssembler extends RepresentationModelAssemblerSupport { @Override public CollectionModel toCollectionModel(Iterable 4.0.0 org.springframework.boot.spring-boot-starter-parent 2.2.2.RELEASE com.springexamples.boot-hateoas boot-hateoas UTF-8 1.8 org.springframework.boot.spring-boot-starter-web org.springframework.boot.spring-boot-starter-data-jpa org.springframework.boot.spring-boot-starter-hateoas com.h2database h2 runtime org.projectlombok lombok true 2.2. JPA entities and repositories @Data @Builder @AllArgsConstructor @NoArgsConstructor @ToString(exclude = "albums") @Entity @Table(name = "actor") public class ActorEntity implements Serializable { private static final long serialVersionUID = 1L; @Id @GeneratedValue(strategy = GenerationType.IDENTITY) private Long id; private String firstName; private String lastName; private String birthDate; @ManyToOne(cascade = CascadeType.ALL) @JoinTable(name = "actor\_album", joinColumns = @JoinColumn(name = "actor\_id"), inverseJoinColumns = @JoinColumn(name = "album\_id")) private List albums; } @Data @Builder @AllArgsConstructor @NoArgsConstructor @Entity @ToString(exclude = "actors") @Table(name = "album") public class AlbumEntity implements Serializable { private static final long serialVersionUID = 1L; @Id @GeneratedValue(strategy = GenerationType.IDENTITY) private Long id; private String title; private String description; private String releaseDate; @ManyToMany(mappedBy = "albums", fetch = FetchType.EAGER) private List actors; } public interface ActorRepository extends JpaRepository { } public interface AlbumRepository extends JpaRepository { } The corresponding data is loaded in H2 in-memory database using given files and configuration. spring.datasource.url=jdbc:h2:mem:test spring.datasource.driverClassName=org.h2.Driver spring.datasource.username=sa spring.datasource.password= spring.jpa.database-platform=org.hibernate.dialect.H2Dialect spring.jpa.hibernate.ddl-auto=none CREATE TABLE actor ( id INT PRIMARY KEY, first\_name VARCHAR(255) NULL, last\_name VARCHAR(255) NULL, birth\_date VARCHAR(255) NULL ); CREATE TABLE album ( id INT PRIMARY KEY, title VARCHAR(255) NULL, description VARCHAR(255) NULL, release\_date VARCHAR(255) NULL ); INSERT INTO actor VALUES (1, 'John', 'Doe', '10-Jan-1952'); INSERT INTO actor VALUES (2, 'Amy', 'Eugene', '05-07-1985'); INSERT INTO actor VALUES (3, 'Laverne', 'Mann', '11-12-1988'); INSERT INTO actor VALUES (4, 'Janice', 'Preston', '19-02-1960'); INSERT INTO actor VALUES (5, 'Pauline', 'Rios', '29-08-1977'); INSERT INTO actor VALUES (6, 'Top Hits Vol 1', 'Top Hits Vol 1', 'Top Hits Vol 1', 'description', '10-03-1981'); INSERT INTO actor VALUES (7, 'Top Hits Vol 2', 'Top Hits Vol 2', 'Top Hits Vol 2', 'description', '10-03-1982'); INSERT INTO actor VALUES (8, 'Top Hits Vol 3', 'Top Hits Vol 3', 'description', '10-03-1983'); INSERT INTO actor VALUES (9, 'Top Hits Vol 4', 'Top Hits Vol 4', 'Top Hits Vol 4', 'description', '10-03-1984'); INSERT INTO actor VALUES (10, 'Top Hits Vol 5', 'Top Hits Vol 5', 'Top Hits Vol 5', 'description', '10-03-1985'); INSERT INTO actor VALUES (11, 'Top Hits Vol 6', 'Top Hits Vol 6', 'Top Hits Vol 6', 'description', '10-03-1986'); INSERT INTO actor VALUES (12, 'Top Hits Vol 7', 'Top Hits Vol 7', 'Top Hits Vol 7', 'description', '10-03-1987'); INSERT INTO actor VALUES (13, 'Top Hits Vol 8', 'Top Hits Vol 8', 'Top Hits Vol 8', 'description', '10-03-1988'); INSERT INTO actor VALUES (14, 'Top Hits Vol 9', 'Top Hits Vol 9', 'Top Hits Vol 9', 'description', '10-03-1989'); INSERT INTO actor VALUES (15, 'Top Hits Vol 10', 'Top Hits Vol 10', 'description', '10-03-1990'); INSERT INTO actor\_album VALUES (1, 1); INSERT INTO actor\_album VALUES (2, 2); INSERT INTO actor\_album VALUES (3, 3); INSERT INTO actor\_album VALUES (4, 3); INSERT INTO actor\_album VALUES (5, 4); INSERT INTO actor\_album VALUES (6, 5); INSERT INTO actor\_album VALUES (7, 6); INSERT INTO actor\_album VALUES (8, 7); INSERT INTO actor\_album VALUES (9, 8); INSERT INTO actor\_album VALUES (10, 9); INSERT INTO actor\_album VALUES (11, 10); 2.3. Model classes These are DTO objects which will be returned from controller classes as representation models. @Data @Builder @AllArgsConstructor @NoArgsConstructor @EqualsAndHashCode(callSuper = false) @JsonRootName(value = "actor") @Relation(collectionRelation = "actors") @JsonInclude(Include.NON\_NULL) public class ActorModel extends RepresentationModel { private Long id; private String firstName; private String lastName; private String birthDate; private List albums; } @Data @Builder @NoArgsConstructor @AllArgsConstructor @EqualsAndHashCode(callSuper = false) @JsonRootName(value = "album") @Relation(collectionRelation = "albums") @JsonInclude(Include.NON\_NULL) public class AlbumModel extends RepresentationModel { private Long id; private String title; private String description; private String releaseDate; private List actors; } 2.4. Representation model assemblers These assemblers will be used to convert the JPA entity classes to DTO objects (entity and collection representations). i.e. ActorEntity to ActorModel AlbumEntity to AlbumModel Here, we are using RepresentationModelAssemblerSupport class which implements RepresentationModelAssembler interface. It provides toModel() and toCollectionModel() methods. @Component public class AlbumModelAssembler { public AlbumModelAssembler() { super(WebController.class, AlbumModel.class); } @Override public AlbumModel toModel(AlbumEntity entity) { AlbumModel albumModel = instantiateModel(entity); return albumModel.add(linkTo(methodOn(WebController.class).getActorById(entity.getId())).withSelfRel()); albumModel.setTitle(entity.getTitle()); albumModel.setDescription(entity.getDescription()); albumModel.setReleaseDate(entity.getReleaseDate()); albumModel.setActors(toActorModel(entity.getActors())); } @Override public CollectionModel toCollectionModel(Iterable

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