Jersey + Swagger RESTful API in AEM



JAX-RS Server https://jax-rs-spec.java.net/
Jackson JSON-POJO mapper: https://github.com/FasterXML/jackson
Swagger yaml/json definition http://petstore.swagger.io/v2/swagger.json
Swagger UI visual forms https://petstore.swagger.io/



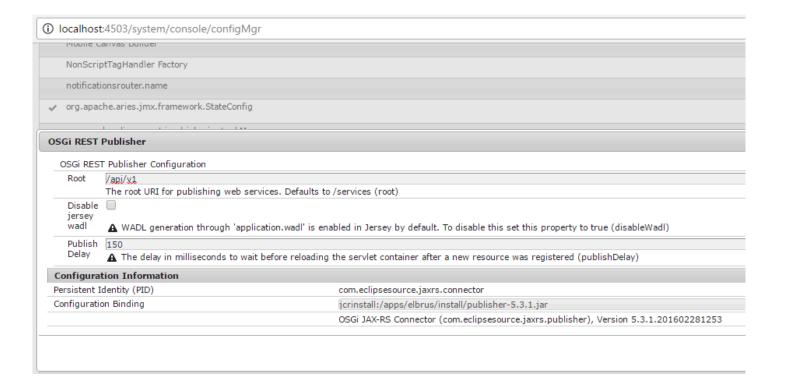
Dependencies

```
<dependency>
  <groupId>com.eclipsesource.jaxrs
  <artifactId>jersey-all</artifactId>
</dependency>
<dependency>
  <groupId>com.eclipsesource.jaxrs</groupId>
  <artifactId>publisher</artifactId>
</dependency>
<dependency>
  <groupId>com.fasterxml.jackson.jaxrs</groupId>
  <artifactId>jackson-jaxrs-json-provider</artifactId>
</dependency>
<dependency>
  <groupId>com.eclipsesource.jaxrs</groupId>
  <artifactId>swagger-all</artifactId>
</dependency>
```

Bundles

```
<embedded>
  <groupId>com.eclipsesource.jaxrs</groupId>
  <artifactId>jersey-all</artifactId>
  <target>${install.path}</target>
</embedded>
<embedded>
  <groupId>com.eclipsesource.jaxrs</groupId>
  <artifactId>swagger-all</artifactId>
  <target>${install.path}</target>
</embedded>
<embedded>
  <groupId>com.eclipsesource.jaxrs</groupId>
  <artifactId>publisher</artifactId>
  <target>${install.path}</target>
</embedded>
```

Configuration





- Jackson JSON marshaller/parser.
- POJOs with optional annotations.
- Resource classes.



JSON Provider

- @Component
- @Service(Object.class)
- @Property(name = "javax.ws.rs", boolValue = true)
- @Consumes(MediaType.WILDCARD)
- @Produces(MediaType.WILDCARD)
- @Provider

public class JsonProvider extends JacksonJaxbJsonProvider {}

Data model

```
public class Company {
  private final int id;
  @JsonProperty("company name")
  private final String name;
  public Company(int id, String name) {
     this.id = id;
     this.name = name;
  public int getId() {      return id;    }
  public String getName() {      return name;    }
```

Resource class

```
@Path("/company")
@Consumes(MediaType.APPLICATION_JSON)
@Produces(MediaType.APPLICATION_JSON)
public class CompanyResource {
  @GET
  public List<Company> list() {
    return service.selectNewCompanies();
  @POST
  public int create(Company company) throws NotAuthorizedException {
    return service.createNewCompany(company);
```



- Resource and operations annotations.
- Model and properties annotations.
- JSON/YAML definition lister.
- Swagger UI.



Resource and operation annotations

Model and properties annotations

```
@ApiModel("Company model")
public class Company {
  @ApiModelProperty("Company ID")
  private final int id;
  @ApiModelProperty("Company Name")
  private final String name;
  public Company(int id, String name) {
    this.id = id:
    this.name = name;
  public int getId() {      return id;    }
  public String getName() {      return name;    }
```

Definition lister

- @Api("Swagger lister")
- @SwaggerDefinition(basePath = "/api/v1")
- @Component
- @Service(Object.class)
- @Path("/")

public class SwaggerResource extends ApiListingResource {}

Swagger UI

https://github.com/swagger-api/swagger-ui/tree/master/dist -> /etc/designs/elbrus/swagger/

Request filter	adding Conte	ent Disposition attachment for certain paths/content types
Content Disposition Paths	▲ These pa	aths are checked by the filter. Each entry is of the form 'path [":" CSV of excluded content types]'. Invalid entries are logged and ignored. (sling.content.disposition.paths)
Content		
Disposition Excluded Paths	▲ These pa	aths are excluded by the filter. Each entry is of the form 'path'. (sling.content.disposition.excluded.paths)
Enable Content Disposition for all paths	This flag co	ntrols whether to enable Content Disposition for all paths, except for the excluded paths defined by sling.content.disposition.excluded.paths (sling.content.disposition.all.path
Configuration	Informatio	on
Persistent Identity (PID)		org.apache.sling.security.impl.ContentDispositionFilter
Configuration Binding		launchpad:resources/install/5/org.apache.sling.security-1.0.18.jar
		Apache Sling Security (org.apache.sling.security), Version 1.0.18

