Client SDK and Server stubs generation with HeadREST

REST application interfaces, also known as RESTful APIs, are a popular way for applications to expose their services to clients. In the context of microservice architecture, RESTful APIs are also used to define how microservices communicate with each other.

OpenAPI Specification Language (OAS) is the de facto standard for documenting RESTful APIs. Its limitations lead to the development of the HeadREST language.

HeadREST specifications are based on types and assertions and allow specifying not only the structure of the data exchanged but also correlate I/O and I/O with server state.

HeadREST Codegen is a code generation tool that generates server and client code from HeadREST specifications. The tool capitalizes on Swagger Codegen for OAS extending it in order to incorporate the semantic aspects of HeadREST specs in the code generated.

The encoder transforms a HeadREST spec into an OAS spec by taking advantage of OAS extension mechanisms. The generator extends the Swagger Codegen to address these extensions.

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