

REST Specifications

Projekt BierIdee

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2. April 2012

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1 Einleitung

Die Definition der Ressourcen orientiert sich an den Regeln des Buches *REST API Design Rulebook* [Mas11] aus dem O'Reilly Verlag.

URI Definition

Bei der Bezeichnung der URIs¹ wurde folgende Terminologie gemäss RFC 3986 verwendet:

URI = scheme "://" authority "/" path ["?" query] ["#" fragment]

Ressource-Archetypen

Nachfolgend die Ressource-Archetypen gemäss [Mas11]. Die Erklärungstexte wurden direkt dem besagten Buch entnommen.

Document A document resource is a singular concept that is akin to an object instance or database record. A document's state representation typically includes both fields with values and links to other related resources.

Collection A collection resource is a server-managed directory of resources. Clients may propose new resources to be added to a collection. However, it is up to the collection to choose to create a new resource, or not.

Store A store is a client-managed resource repository. A store resource lets an API client put resources in, get them back out, and decide when to delete them. On their own, stores do not create new resources; therefore a store never generates new URIs. Instead, each stored resource has a URI that was chosen by a client when it was initially put into the store.

Controller A controller resource models a procedural concept. Controller resources are like executable functions, with parameters and return values; inputs and outputs. Like a traditional web application's use of HTML forms, a REST API relies on controller resources to perform application-specific actions that cannot be logically mapped to one of the standard methods (create, retrieve, update, and delete, also known as CRUD).

2 REST Ressourcen

Nachfolgend sind die verfügbaren REST Ressourcen definiert. Alle Ressourcen sind unter der URI Authority <http://api.nusszipfel.com/> erreichbar.

¹Uniform Resource Identifier

2.1 Beer

Ein spezifisches Bier, identifiziert durch die ID.

URI Path /beers/{beer-id}

Archetype Document

Methods GET, PUT, DELETE

2.2 Beers

Der Bestand aller Biere.

URI Path /beers

Query Parameters tag={tagName}

Archetype Collection

Methods GET, POST

2.3 Users

Ein Benutzer, identifiziert durch den Benutzernamen.

URI Path /users/{username}

Archetype Store

Methods GET, PUT, DELETE

2.4 Recommendations

Bier-Empfehlungen für einen bestimmten Benutzer.

URI Path /users/{username}/recommendations

Archetype Controller

Methods GET

2.5 Ratings

Eine Bier-Bewertung durch einen bestimmten Benutzer.

URI Path /beers/{beer-id}/ratings/{username}

Archetype Store

Methods GET, PUT, DELETE

2.6 Consumption

Ein Bierkonsum, identifiziert durch die ID.

URI Path /consumption/{consumption-id}

Archetype Document

Methods GET, PUT, DELETE

2.7 Consumptions

Der Bestand aller Bierkonsume.

URI Path /consumption

Query Parameters user={username}, beer={beer-id}

Archetype Collection

Methods GET, POST

2.8 Brewery

Eine Brauerei, identifiziert durch die ID.

URI Path /breweries/{brewery-id}

Archetype Document

Methods GET, PUT, DELETE

2.9 Breweries

Der Bestand aller Brauereien.

URI Path /breweries

Query Parameters brewerySize={size}

Archetype Collection

Methods GET, POST

2.10 Timeline

Die Aktivitäts-Timeline.

URI Path /timeline

Query Parameters pageSize={size}, pageStartIndex={index}, user={username}

Archetype Collection

Methods GET

Literatur

[Mas11] M. Masse. *REST API Design Rulebook*. O'Reilly Media, 2011.