

Working with Containment, Custom Functions, Actions and Singletons



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Coming Up



Containment navigation

- Avoid top-level access

Custom functions and actions

- Add server-side behavior

Singletons

- Address entity directly from entity container

Working with Containment Navigation

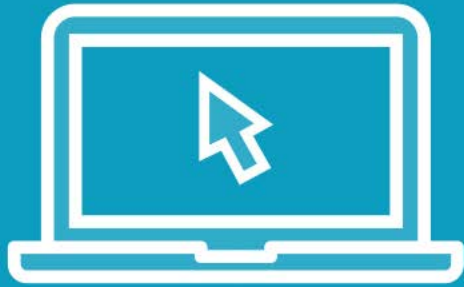


Implicit entity set for each instance of its declaring entity

No top-level access

- root/People
- root/People(1)/VinylRecords
- root/People?\$include=VinylRecords
- ~~- root/VinylRecords~~

Demo

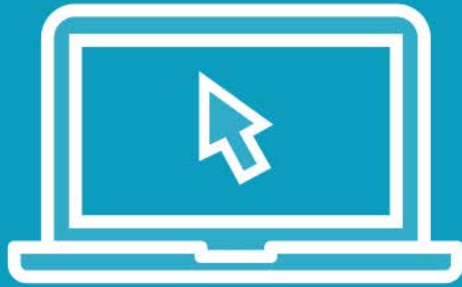


Implementing Containment Navigation

- [Contained]



Demo



Manipulating Containment Navigation Properties

- POST
root/containingEntitySet(entityKey)/
NavigationProperty
- PATCH
root/containingEntitySet(entityKey)/
NavigationProperty(entityKey)
- DELETE
root/containingEntitySet(entityKey)/
NavigationProperty(entityKey)



Working with Custom Functions and Actions

Function

Get the highest rated RecordStore

Cannot have side-effects

Must have a return type

Bound: entity or entity collection

Unbound: static operation on service

Action

Rate a RecordStore

Can have side-effects

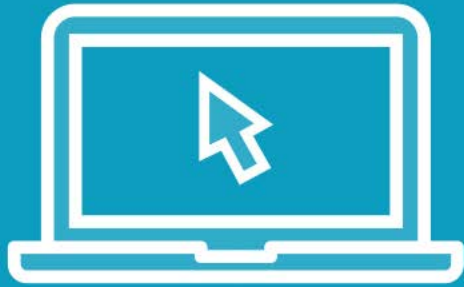
Can have a return type

Bound: entity or entity collection

Unbound: static operation on service



Demo

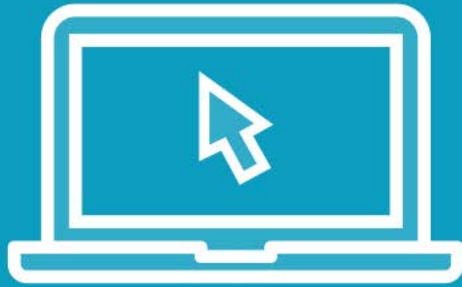


Implementing Custom Functions

- Bound
 - Entity
 - Entity collection
- Unbound
- Define on EDM
- Implement on controller



Demo



Implementing Custom Actions

- Bound
 - Entity
 - Entity collection
- Unbound
- Define on EDM
- Implement on controller



Working with Singletons

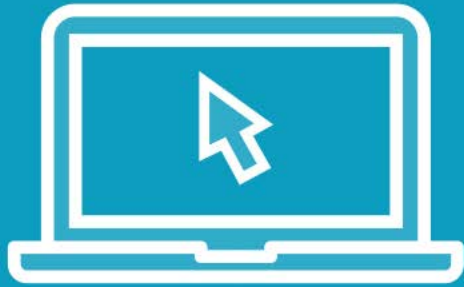


Entities accessed as children of the entity container

Address a single entity

- Without knowing the key
- Without requiring an EntitySet

Demo

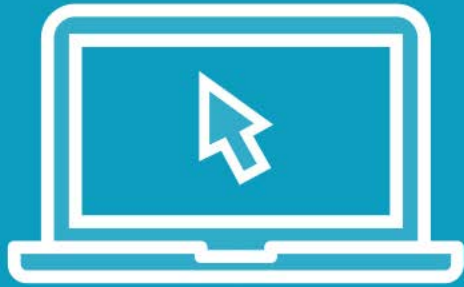


Implementing a Singleton

- root/NameOfSingleton
- Define on EDM
- Implement on controller



Demo



Manipulating a Singleton

- PATCH
root/NameOfSingleton



Summary



Containment navigation

- Implicit EntitySet
- No top-level access
- [Contained]

Custom functions and actions

- Add (complicated) server-side behavior
- Bound (entity & entity collection) and unbound
- Bound: fully-qualified name
- Unbound: service root



Summary



Singleton

- Single entity, child of EntityContainer
- No key, no EntitySet
- PATCH, but no POST or DELETE