

# Bootcamp Day 2 - REST API

## Overview

Contacts service provides tracking of many-to-many relationships between entities.

## General API features

Authentication	
Compression	
Encryption	

## Relationship Resource

Describes a single, uni-directional relationship between two entities

## Resource Identifier

`/v1/contact/{ownerId}/{contactId}`

Part	Required	Type	Example	Description
ownerId	yes	string	joe	The ID of the entity who owns the contact
contactId	yes	string	bob	The ID of the contact entity

## GET Method

Gets the existence of a relation between the given two entities.

## Request

### Http Body

None

## Response

### Return Codes:

Code	Description
204	Relation exists
404	Relation does not exist

### Http Body

None.

## PUT Method

Creates a relation between the given two entities.

### Request

#### Http Body

None

### Response

#### Return Codes:

Code	Description
204	Success

#### Http Body

None.

## DELETE Method

Deletes a relation between the given two entities.

### Request

#### Http Body

None

### Response

#### Return Codes:

Code	Description
204	Success
404	The relation did not exist

#### Http Body

None.

## Contacts Resource

Summarizes the contacts for a particular entity

### Resource Identifier

`/v1/contact/{ownerId}`

Part	Required	Type	Example	Description
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ownerId	yes	string	joe	The ID of the entity who owns the contact
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## GET Method

Retrieve the contacts for an entity

### Request

#### Http Body

None

### Response

Returns a JSON list of the entity IDs that have been stored as contacts for the requested entity

```
[  
  "bob", "dave", "alice", "peter"  
]
```

#### Return Codes:

Code	Description
200	Success

#### Http Body

None.