

# SJSU CMPE281 HW GAE RESTFUL WEB

## SVC FALL 2016

Mengxuan Cai

### Extra Credit 1

Get

Get .../rest/employee

Rest request and response: Success

Before

Datastore

Entities

Dashboard

Indexes

Admin

Entities

+

CREATE ENTITY

↺

REFRESH

🗑

DELETE

Query by kind

Query by GQL

Kind

employee

▼

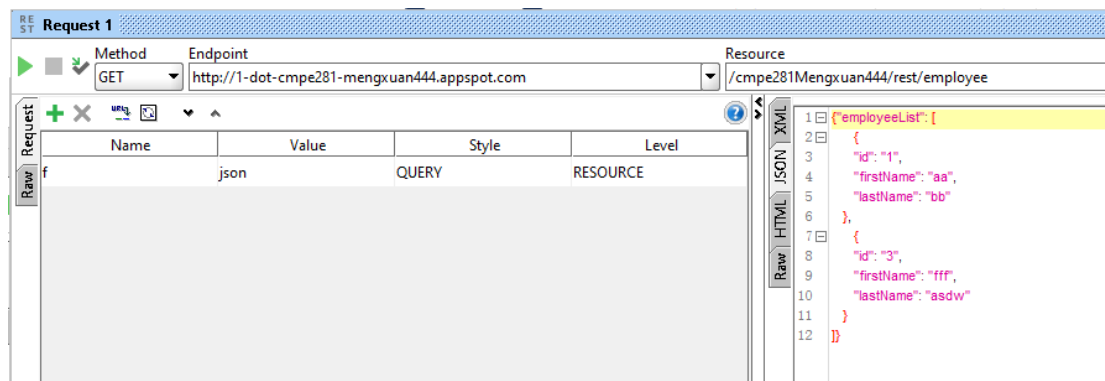
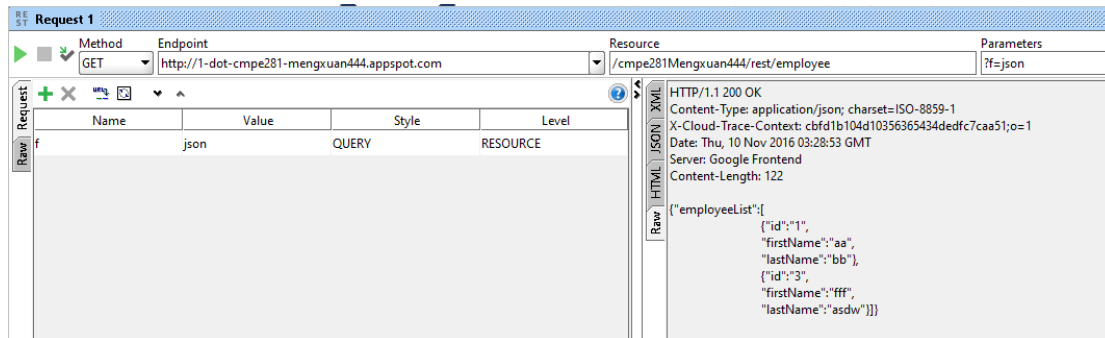
🔍

Filter entities

<input type="checkbox"/> Name/ID	firstName	id	lastName
<input type="checkbox"/> id=1	aa	1	bb
<input type="checkbox"/> id=3	fff	3	asd

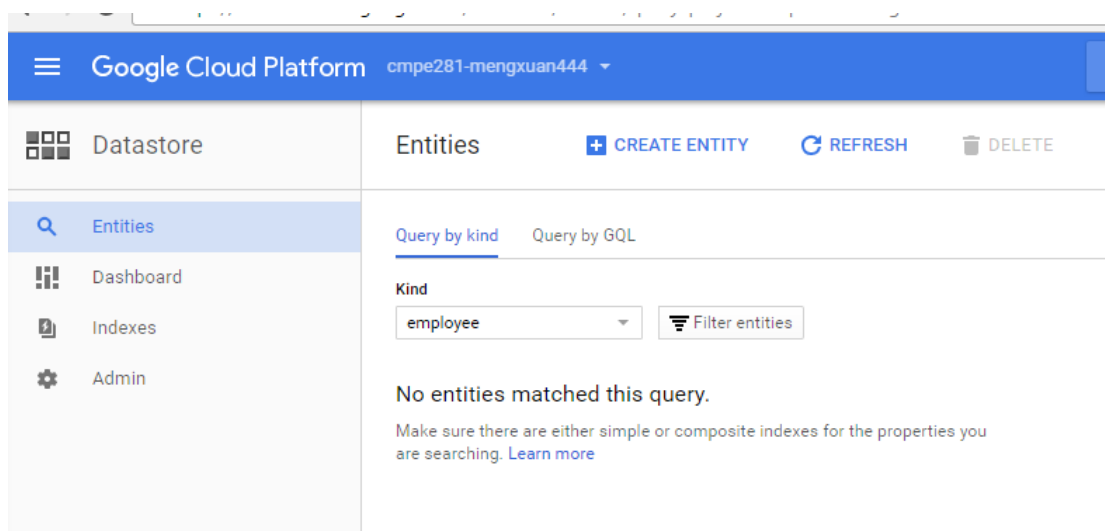
After

Get [http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee?f=json](http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee?f=json)



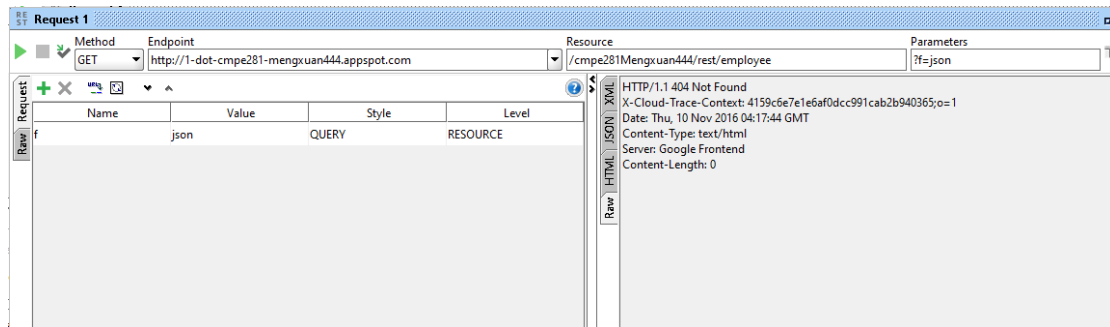
Rest request and response: Error

Before



After

Get http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee?f=json



## Get .../rest/employee/m

Rest request and response: Success

## Before

Datastore

Entities

Dashboard

Indexes

Admin

Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

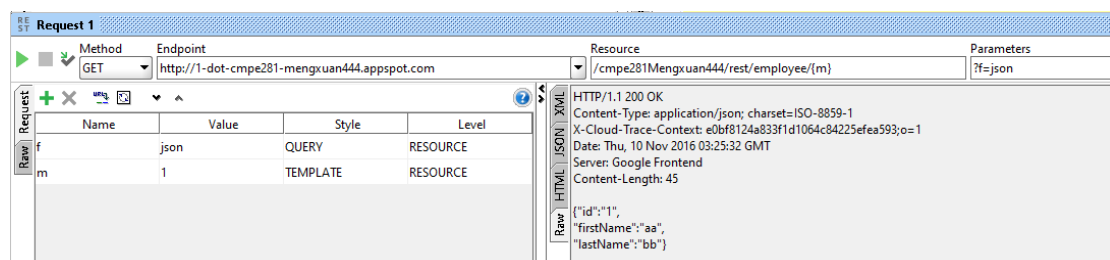
employee

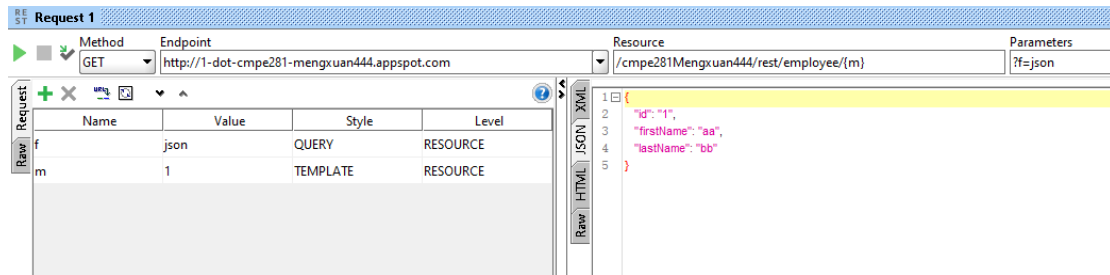
Filter entities

<input type="checkbox"/>	Name/ID	firstName	id	lastName
<input type="checkbox"/>	id=1	aa	1	bb
<input type="checkbox"/>	id=3	fff	3	asdw

## After

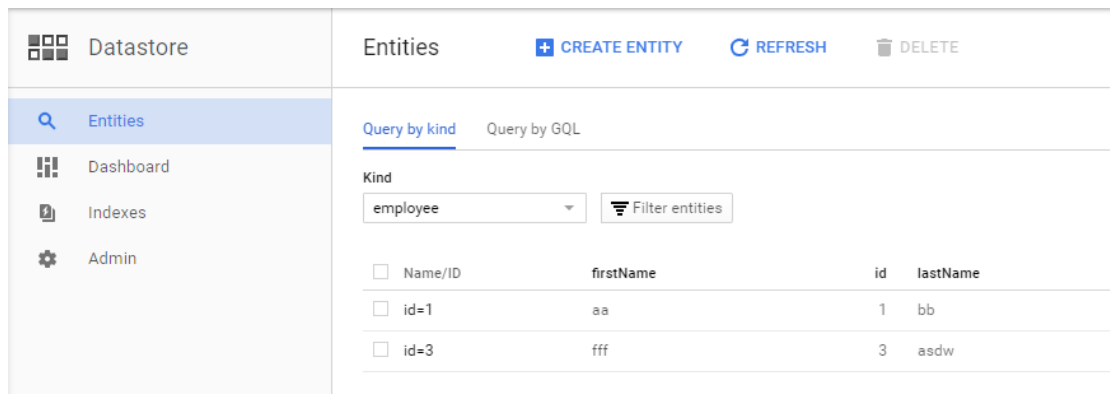
Get http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee/1?f=json





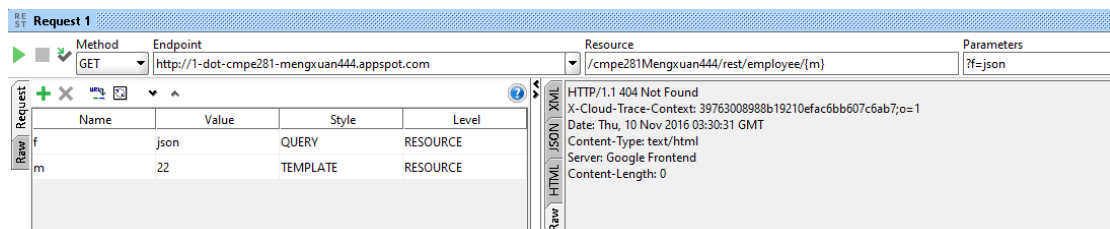
Rest request and response: Error

Before



After

Get http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee/22?f=json



# Get .../rest/project

Rest request and response: Success

## Before

Datastore

Entities

Dashboard

Indexes

Admin

+

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

project

Filter entities

☐

Name/ID

☐

id=1

☐

id=2

☐

id=3

budget

1223.2230224609375

111.11000061035156

123.26499938964844

id

1

2

3

name

bbb

asd

aaa

## After

Get http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project?f=json

Request 1

Method

GET

Endpoint

http://1-dot-cmpe281-mengxuan444.appspot.com

Resource

/cmpe281Mengxuan444/rest/project

Parameters

?f=json

Raw

Request

<

Request 1

Method

Endpoint

GET

http://1-dot-cmpe281-mengxuan444.appspot.com

Resource

Parameters

/cmpe281Mengxuan444/rest/project

?f=json

Request

Raw

JSON

HTML

Name	Value	Style	Level
f	json	QUERY	RESOURCE

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

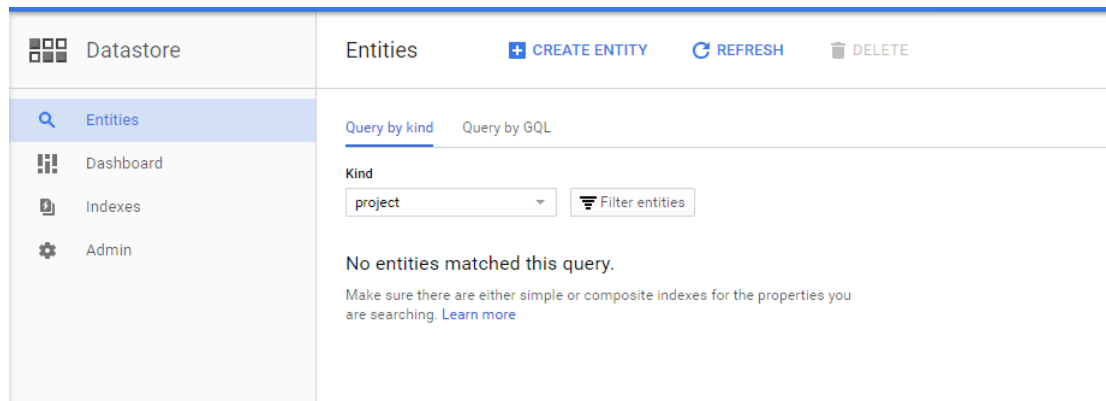
16

17

```
[{"projectList": [{"id": "1", "name": "bbb", "budget": "1223.2230224609375"}, {"id": "2", "name": "asd", "budget": "111.11000061035156"}, {"id": "3", "name": "aaa", "budget": "123.26499938964844"}]}
```

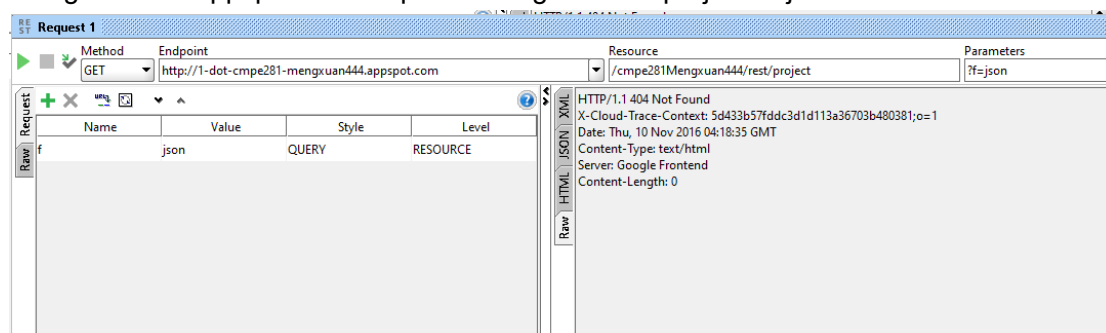
## Rest request and response: Error

### Before



### After

Get `http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project?f=json`



## Get .../rest/project/m

Rest request and response: Success

### Before

<div>☐☐☐ Datastore</div> <div>Entities</div> <div>Dashboard</div> <div>Indexes</div> <div>Admin</div>	Entities <span>CREATE ENTITY</span> <span>REFRESH</span> <span>DELETE</span>			
	Query by kind    Query by GQL			
	Kind project <span>Filter entities</span>			
	<input type="checkbox"/> Name/ID	<input type="checkbox"/> budget	<input type="checkbox"/> id	<input type="checkbox"/> name
	<input type="checkbox"/> id=1	1223.2230224609375	1	bbb

<input type="checkbox"/> id=2	111.11000061035156	2	asd
<input type="checkbox"/> id=3	123.26499938964844	3	aaa

### After

Get [http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/rest/project/1?f=json](http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/rest/project/1?f=json)

Request 1

Method

GET

Endpoint

http://1-dot-cmpe281-mengxuan444.appspot.com

Resource

/cmpe281Mengxuan444/rest/project/(m)

Parameters

?f=json

Request

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	1	TEMPLATE	RESOURCE

Raw

HTML

JSON

XML

Raw

```

HTTP/1.1 200 OK
Content-Type: application/json; charset=ISO-8859-1
X-Cloud-Trace-Context: 9d425350e7902da0e8ca107a227bbfdd;o=1
Date: Thu, 10 Nov 2016 03:34:31 GMT
Server: Google Frontend
Content-Length: 55

{"id": "1",
 "name": "bbb",
 "budget": "1223.2230224609375"
}

```

Request 1

Method

GET

Endpoint

http://1-dot-cmpe281-mengxuan444.appspot.com

Resource

/cmpe281Mengxuan444/rest/project/(m)

Parameters

?f=json

Request

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	1	TEMPLATE	RESOURCE

Raw

HTML

JSON

XML

Raw

```

1 {
2   "id": "1",
3   "name": "bbb",
4   "budget": "1223.2230224609375"
5 }

```

Rest request and response: Error

Before

Datastore

Entities

Dashboard

Indexes

Admin

Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

project

Filter entities

<input type="checkbox"/>	Name/ID	budget	id	name
<input type="checkbox"/>	id=1	1223.2230224609375	1	bbb
<input type="checkbox"/>	id=2	111.11000061035156	2	asd
<input type="checkbox"/>	id=3	123.26499938964844	3	aaa

After

Get [http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project/4](http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project/4)

Request 1

Method

Endpoint

Resource

Parameters

Aborts ongoing request

http://1-dot-cmpe281-mengxuan444.appspot.com

/cmpe281Mengxuan444/rest/project/{m}

?f=json

Raw

Request

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	4	TEMPLATE	RESOURCE

Raw

HTML

Raw

JSON

XML

HTTP/1.1 404 Not Found  
X-Cloud-Trace-Context: 29dff34a59355b397992cd8e3fc2b5f4;o=1  
Date: Thu, 10 Nov 2016 03:35:17 GMT  
Content-Type: text/html  
Server: Google Frontend  
Content-Length: 0



Post

Post .../rest/employee

Rest request and response: Success

Before

Datastore

Entities

Dashboard

Indexes

Admin

Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

employee

Filter entities

<input type="checkbox"/>	Name/ID	firstName	id	lastName
<input type="checkbox"/>	id=1	aa	1	bb
<input type="checkbox"/>	id=3	fff	3	asdw

After

Post http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee?f=json

```
{
  "id":2,
  "firstName":"rita",
  "lastName":"cai"
}
```

Request 1

Method POST

Endpoint http://1-dot-cmpe281-mengxuan444.appspot.com

Resource /cmpe281Mengxuan444/rest/employee

Parameters ?f=json

Name	Value	Style	Level
f	json	QUERY	RESOURCE

Required:

☐ Sets if parameter is required

Type:

Options:

Add..

Media Type application/json

☐ Post QueryString

```
{
  "id":2,
  "firstName":"rita",
  "lastName":"cai"
}
```

HTTP/1.1 201 Created

Location: http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/rest/employee?f=json

Content-Type: application/json; charset=utf-8

Cache-Control: no-cache

X-Cloud-Trace-Context: 8ea815083785d5821633f013d28a9049;o=1

Date: Thu, 10 Nov 2016 03:36:36 GMT

Server: Google Frontend

Content-Length: 0

Datastore

Entities

Dashboard

Indexes

Admin

Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

employee

Filter entities

☐

Name/ID

firstName

☐

id=1

aa

☐

id=2

rita

☐

id=3

fff

id

1

2

3

lastName

bb

cai

asdw

Rest request and response: Error

## Before

Datastore

Entities

Dashboard

Indexes

Admin

Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

employee

Filter entities

☐

Name/ID

firstName

id

lastName

☐

id=1

aa

1

bb

☐

id=2

rita

2

cai

☐

id=3

fff

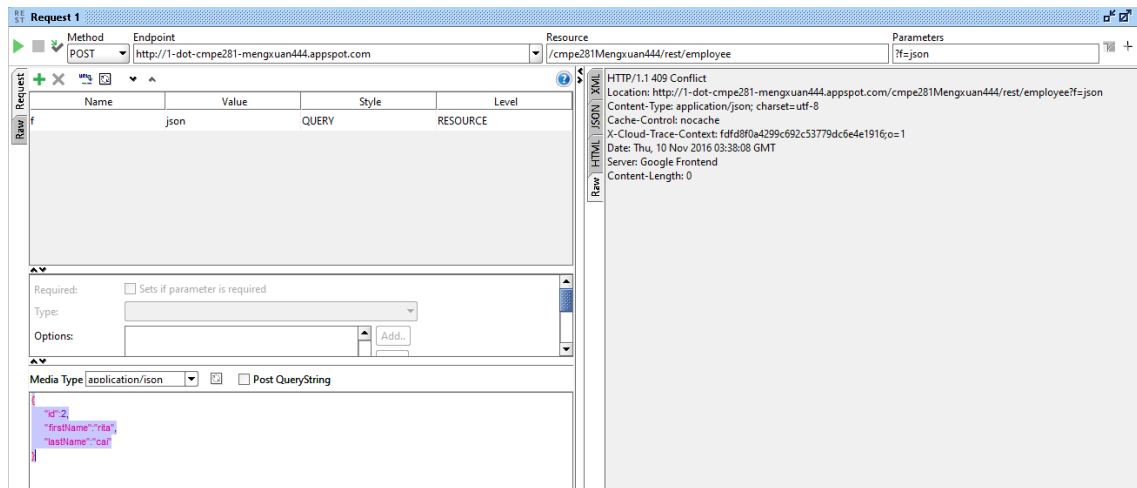
3

asd

## After

Post http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee?f=json

```
{
  "id":2,
  "firstName":"rita",
  "lastName":"cai"
}
```



## Post .../rest/project

Rest request and response: Success

## Before

Datstore

Entities

Dashboard

Indexes

Admin

Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

project

Filter entities

☐

Name/ID

budget

id

name

☐

id=1

1223.2230224609375

1

bbb

☐

id=2

111.11000061035156

2

asd

☐

id=3

123.26499938964844

3

aaa

## After

Post http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project?f=json

```
{
  "id":4,
  "name":"cmpe281",
  "budget":111.1111
}
```

Request 1

Method: POST  
Endpoint: http://1-dot-cmpe281-mengxuan444.appspot.com  
Resource: /cmpe281Mengxuan444/rest/project  
Parameters: ?f=json

Raw Request

Name	Value	Style	Level
f	json	QUERY	RESOURCE

Media Type: application/json

```
{
  "id": 4,
  "name": "cmpe281",
  "budget": 111.1111
}
```

Raw Response

HTTP/1.1 201 Created  
Location: http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/rest/project?f=json  
Content-Type: application/json; charset=utf-8  
Cache-Control: no-cache  
X-Cloud-Trace-Context: 583dc865061a2ba4b250756d9a356f98;o=1  
Date: Thu, 10 Nov 2016 03:39:57 GMT  
Server: Google Frontend  
Content-Length: 0

Firestore

Entities [+ CREATE ENTITY](#) [REFRESH](#) [DELETE](#)

Query by kind Query by GQL

Kind: project

<input type="checkbox"/>	Name/ID	budget	id	name
<input type="checkbox"/>	id=1	1223.2230224609375	1	bbb
<input type="checkbox"/>	id=2	111.11000061035156	2	asd
<input type="checkbox"/>	id=3	123.26499938964844	3	aaa
<input type="checkbox"/>	id=4	111.11109924316406	4	cmpe281

Rest request and response: Error

Before

Firestore

Entities [+ CREATE ENTITY](#) [REFRESH](#) [DELETE](#)

Query by kind Query by GQL

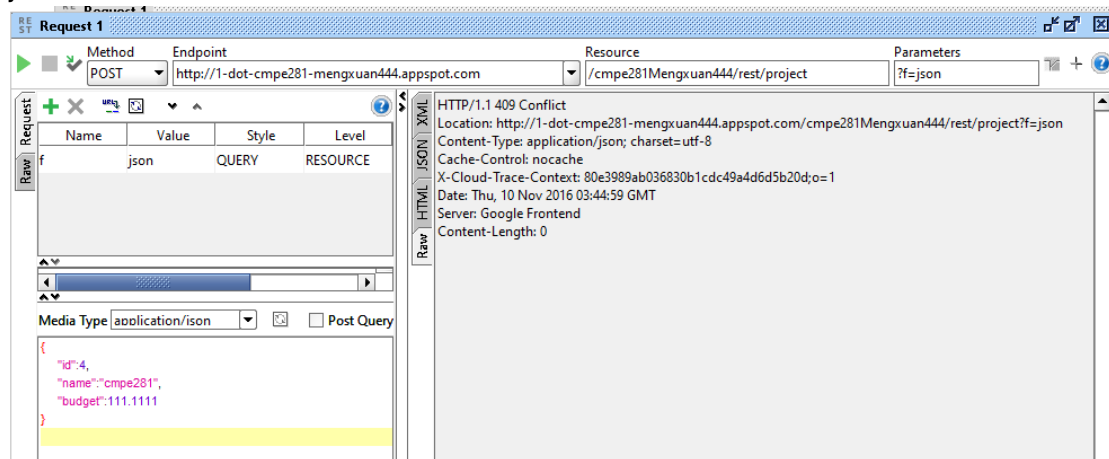
Kind: project

<input type="checkbox"/>	Name/ID	budget	id	name
<input type="checkbox"/>	id=1	1223.2230224609375	1	bbb
<input type="checkbox"/>	id=2	111.11000061035156	2	asd
<input type="checkbox"/>	id=3	123.26499938964844	3	aaa
<input type="checkbox"/>	id=4	111.11109924316406	4	cmpe281

## After

Post [http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project?f=json](http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project?f=json)

```
{
  "id":4,
  "name":"cmpe281",
  "budget":111.1111
}
```



## Put

### Put .../rest/employee/m

Rest request and response: All Fields

## Before

Datastore

Entities

Dashboard

Indexes

Admin

Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

employee

Filter entities

<

## After

Put `http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee/3?f=json`

```
{
  "firstName": "san",
  "lastName": "jose"
}
```

The screenshot shows a REST client interface with the following details:

- Method:** PUT
- Endpoint:** `http://1-dot-cmpe281-mengxuan444.appspot.com`
- Resource:** `/cmpe281Mengxuan444/rest/employee/(m)`
- Parameters:** `?f=json`
- Request Body:** A JSON object: `{ "firstName": "san", "lastName": "jose" }`
- Response:** HTTP/1.1 200 OK, Content-Type: application/json; charset=utf-8, Cache-Control: no-cache, X-Cloud-Trace-Context: 51c6fb7657dbcf2f6191410d78a9b096;o=1, Date: Thu, 10 Nov 2016 03:54:23 GMT, Server: Google Frontend, Content-Length: 0

The screenshot shows the Google Cloud Datastore Entities page with the following details:

- Left Sidebar:** Contains links for **Entities**, **Dashboard**, **Indexes**, and **Admin**.
- Entities Section:** Includes buttons for **CREATE ENTITY**, **REFRESH**, and **DELETE**.
- Query by kind:** The **Kind** dropdown is set to **employee**, and there is a **Filter entities** button.
- Table:** A table listing three entities with columns **id** and **lastName**.

	id	lastName
<input type="checkbox"/> Name/ID		
<input type="checkbox"/> id=1	aa	bb
<input type="checkbox"/> id=2	rita	cai
<input type="checkbox"/> id=3	san	jose

## Rest request and response: Partial Field

### Before

<div>☐☐☐ Datastore</div> <div>Entities</div> <div>Dashboard</div> <div>Indexes</div> <div>Admin</div>	Entities <span>CREATE ENTITY</span> <span>REFRESH</span> <span>DELETE</span>																	
	Query by kind    Query by GQL																	
	Kind employee <span>Filter entities</span>																	
	<table><thead><tr><th><input type="checkbox"/> Name/ID</th><th>firstName</th><th>id</th><th>lastName</th></tr></thead><tbody><tr><td><input type="checkbox"/> id=1</td><td>aa</td><td>1</td><td>bb</td></tr><tr><td><input type="checkbox"/> id=2</td><td>rita</td><td>2</td><td>cai</td></tr><tr><td><input type="checkbox"/> id=3</td><td>san</td><td>3</td><td>jose</td></tr></tbody></table>			<input type="checkbox"/> Name/ID	firstName	id	lastName	<input type="checkbox"/> id=1	aa	1	bb	<input type="checkbox"/> id=2	rita	2	cai	<input type="checkbox"/> id=3	san	3
<input type="checkbox"/> Name/ID	firstName	id	lastName															
<input type="checkbox"/> id=1	aa	1	bb															
<input type="checkbox"/> id=2	rita	2	cai															
<input type="checkbox"/> id=3	san	3	jose															

### After

Put `http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee/1?f=json`

```
{
  "firstName":"orange"
}
```

Request 1

Method: PUT

Endpoint: http://1-dot-cmpe281-mengxuan444.appspot.com

Resource: /cmpe281Mengxuan444/rest/employee/{m}

Parameters: ?f=json

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	1	TEMPLATE	RESOURCE

Required: ☐ Sets if parameter is required

Type:

Options: Add...

Media Type: application/json

☐ Post QueryString

```
{
  "firstName":"orange"
}
```

Raw

HTML

JSON

XML

HTTP/1.1 200 OK

Content-Type: application/json; charset=utf-8

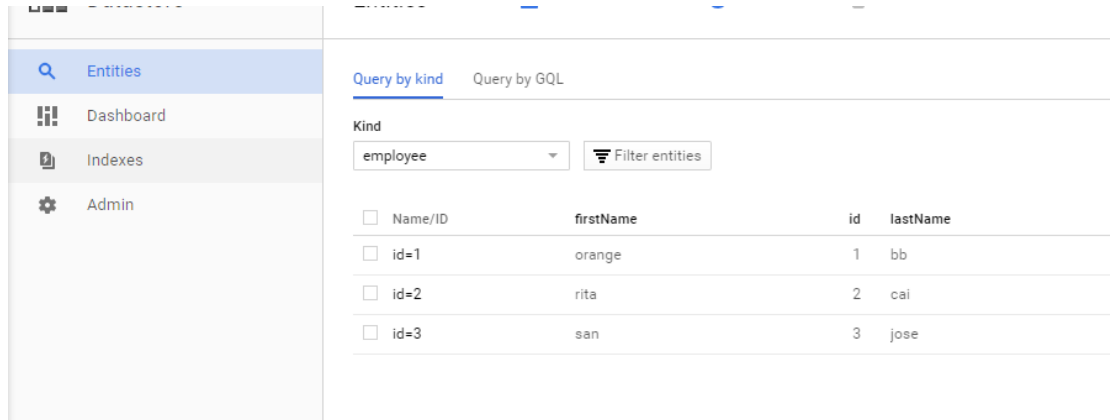
Cache-Control: no-cache

X-Cloud-Trace-Context: 41018f2cff61c18a2850ad6b836aea1d;o=1

Date: Thu, 10 Nov 2016 03:56:29 GMT

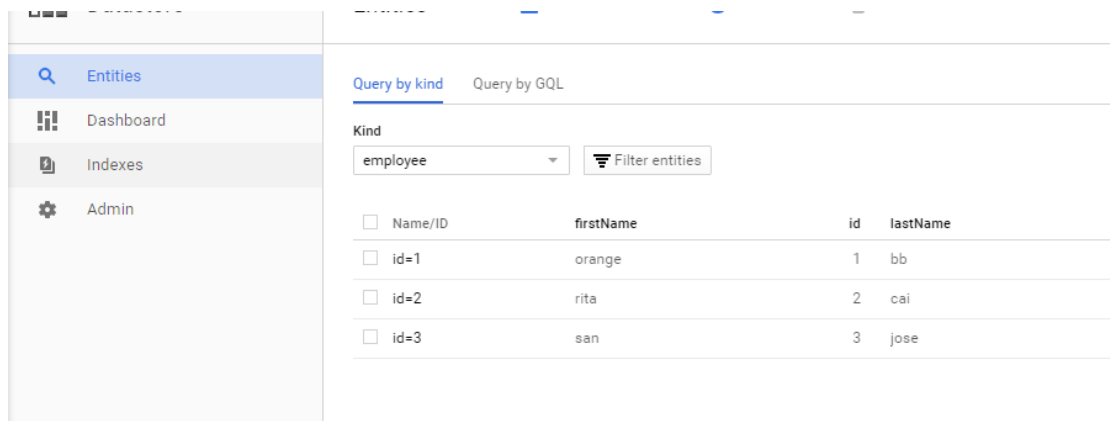
Server: Google Frontend

Content-Length: 0



Rest request and response: Error

## Before

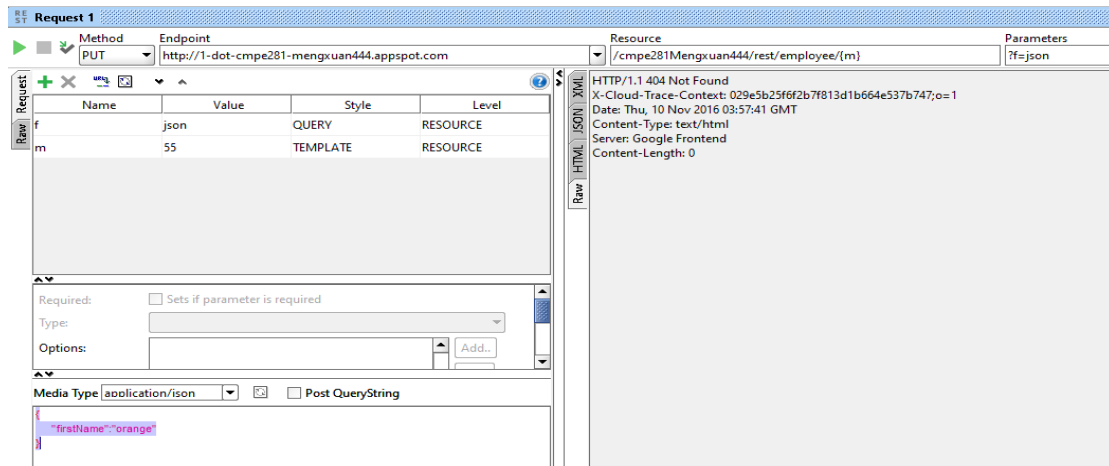


## After

Put `http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee/55?f=json`

```
{
  "firstName": "orange"
}
```





## Put .../rest/project/m

Rest request and response: All Fields

## Before

Datastore

Entities

Dashboard

Indexes

Admin

Entities

+ CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

project

Filter entities

<input type="checkbox"/>	Name/ID	budget	id	name
<input type="checkbox"/>	id=1	1223.2230224609375	1	bbb
<input type="checkbox"/>	id=2	111.11000061035156	2	asd
<input type="checkbox"/>	id=3	123.26499938964844	3	aaa
<input type="checkbox"/>	id=4	111.11109924316406	4	cmpe281

## After

Put http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project/1?f=json

```
{
  "name": "zzz",
  "budget": 999.99
}
```

Request 1

Method

PUT

Endpoint

http://1-dot-cmpe281-mengxuan444.appspot.com

Resource

/cmpe281Mengxuan444/rest/project/(m)

Parameters

?f=json

Raw

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	1	TEMPLATE	RESOURCE

Required:

☐ Sets if parameter is required

Type:

Options:

Add..

Media Type

application/json

☐ Post QueryString

```
{
  "name": "zzz",
  "budget": 999.99
}
```

Raw

HTTP/1.1 200 OK

Content-Type: application/json; charset=utf-8

Cache-Control: no-cache

X-Cloud-Trace-Context: 76e6f778ebccfd2bfce13b141cfe77f2;o=1

Date: Thu, 10 Nov 2016 04:00:34 GMT

Server: Google Frontend

Content-Length: 0

Datastore

Entities

CREATE ENTITY

REFRESH

DELETE

Entities

Query by kind

Query by GQL

Kind

project

Filter entities

<input type="checkbox"/> Name/ID	<input type="checkbox"/> budget	<input type="checkbox"/> id	<input type="checkbox"/> name
<input type="checkbox"/> id=1	999.989990234375	1	zzz
<input type="checkbox"/> id=2	111.11000061035156	2	asd
<input type="checkbox"/> id=3	123.26499938964844	3	aaa
<input type="checkbox"/> id=4	111.11109924316406	4	cmpe281

## Rest request and response: Partial Field

### Before

<div>☐☐☐ Datastore</div> <div>🔍 Entities</div> <div>📊 Dashboard</div> <div>📄 Indexes</div> <div>⚙️ Admin</div>	Entities <span>➕ CREATE ENTITY</span> <span>🔄 REFRESH</span> <span>🗑️ DELETE</span>			
	Query by kind    Query by GQL			
	Kind <div>project <span>⌵</span> <span>🔍 Filter entities</span></div>			
	<input type="checkbox"/> Name/ID	<input type="checkbox"/> budget	<input type="checkbox"/> id	<input type="checkbox"/> name
	<input type="checkbox"/> id=1	999.989990234375	1	zzz
	<input type="checkbox"/> id=2	111.11000061035156	2	asd
	<input type="checkbox"/> id=3	123.26499938964844	3	aaa
	<input type="checkbox"/> id=4	111.11109924316406	4	cmpe281

### After

Put http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project/2?f=json

```
{
  "budget":88.88
}
```

Request 1

Method

PUT

Endpoint

http://1-dot-cmpe281-mengxuan444.appspot.com

Resource

/cmpe281Mengxuan444/rest/project/{m}

Parameters

?f=json

Request

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	2	TEMPLATE	RESOURCE

Required: ☐ Sets if parameter is required

Type:

Options: Add...

Media Type 

application/json

☐ Post QueryString

```
{
  "budget":88.88
}
```

Response

HTTP/1.1 200 OK

Content-Type: application/json; charset=utf-8


Cache-Control: no-cache


X-Cloud-Trace-Context: 0e3a5cd9f550d3f8b1746b68e9f15b9c;o=1


Date: Thu, 10 Nov 2016 04:07:17 GMT


Server: Google Frontend


Content-Length: 0

 Datastore

 Entities

 Dashboard

 Indexes

 Admin

## Entities

[Query by kind](#) [Query by GQL](#)

Kind


project


Filter entities


<input type="checkbox"/>	Name/ID	budget	id	name
<input type="checkbox"/>	id=1	999.989990234375	1	zzz
<input type="checkbox"/>	id=2	88.87999725341797	2	asd
<input type="checkbox"/>	id=3	123.26499938964844	3	aaa
<input type="checkbox"/>	id=4	111.11109924316406	4	cmpe281


### Rest request and response: Error


## Before

 Datastore


 Entities


 Dashboard


 Indexes

 Admin

Entities

 CREATE ENTITY

 REFRESH

 DELETE

Query by kind

Query by GQL

Kind

project

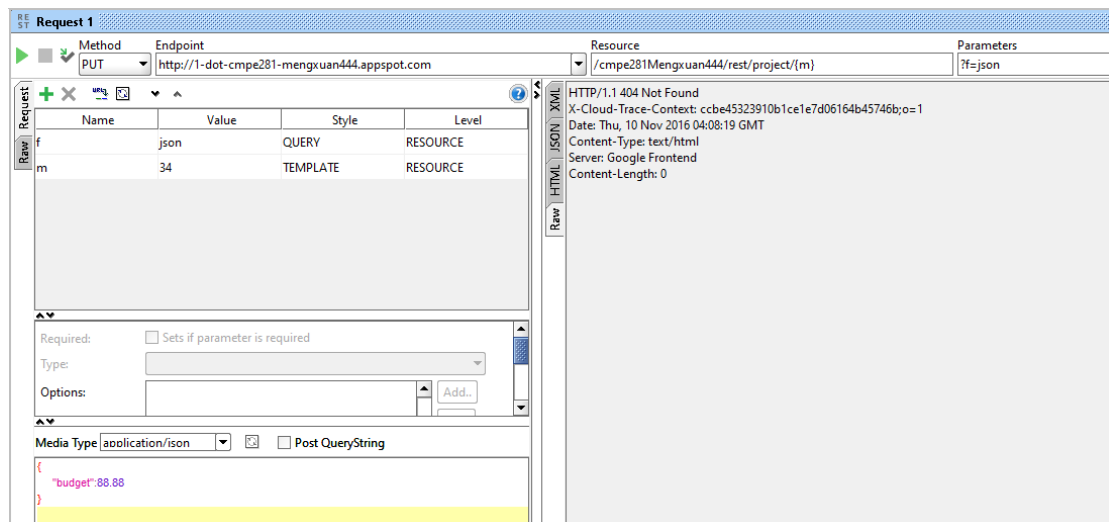
Filter entities

<input type="checkbox"/> Name/ID	budget	id	name
<input type="checkbox"/> id=1	999.989990234375	1	zzz
<input type="checkbox"/> id=2	88.87999725341797	2	asd
<input type="checkbox"/> id=3	123.26499938964844	3	aaa
<input type="checkbox"/> id=4	111.11109924316406	4	cmpe281

## After

Put [http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project/34?f=json](http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project/34?f=json)

```
{
  "budget":88.88
}
```

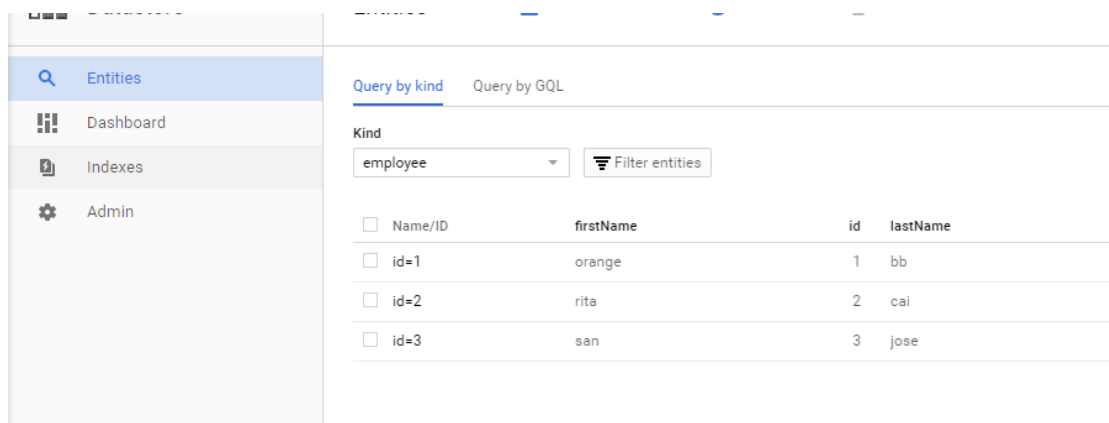


Delete

Delete `.../rest/employee/m`

Rest request and response: Success

Before



After

Delete `http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee/3?f=json`

**Request 1**

Method: DELETE Endpoint: http://1-dot-cmpe281-mengxuan444.appspot.com Resource: /cmpe281Mengxuan444/rest/employee/(m) Parameters: ?f=json

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	3	TEMPLATE	RESOURCE

Media Type: application/json Post QueryString

Response:

```
HTTP/1.1 200 OK
X-Cloud-Trace-Context: 258d7f4eb5979e5ca5cc647b58a477b3;o=1
Date: Thu, 10 Nov 2016 04:10:25 GMT
Content-Type: text/html
Server: Google Frontend
Content-Length: 0
```

**Datastore**

Entities [CREATE ENTITY](#) [REFRESH](#) [DELETE](#)

Query by kind Query by GQL

Kind: employee [Filter entities](#)

Name/ID	firstName	id	lastName
id=1	orange	1	bb
id=2	rita	2	cai

Rest request and response: Error

Before

**Datastore**

Entities [CREATE ENTITY](#) [REFRESH](#) [DELETE](#)

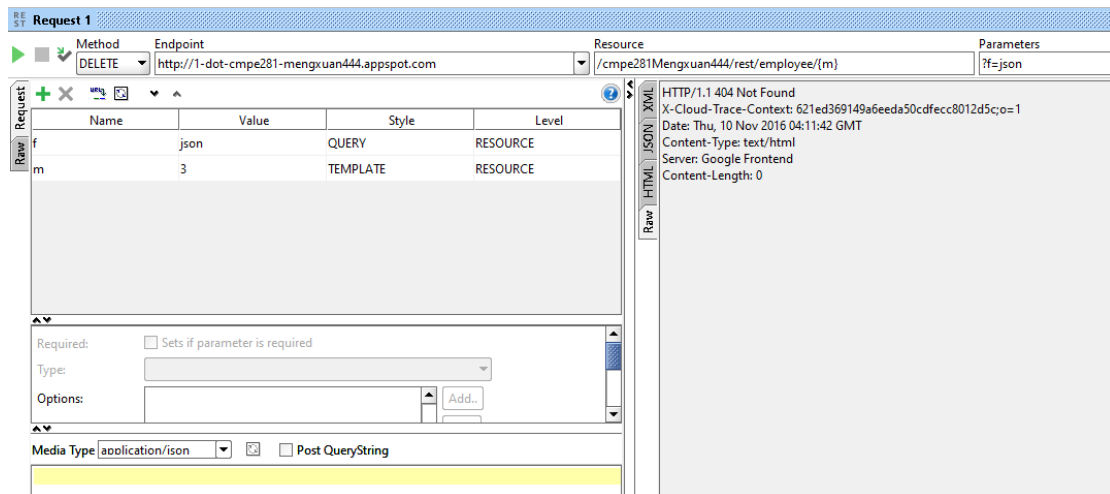
Query by kind Query by GQL

Kind: employee [Filter entities](#)

Name/ID	firstName	id	lastName
id=1	orange	1	bb
id=2	rita	2	cai

After

Delete http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/employee/3?f=json



## Delete .../rest/project/m

Rest request and response: Success

## Before

Entities

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Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

project

Filter entities

☐

Name/ID

☐

id=1

☐

id=2

☐

id=3

☐

id=4

budget

999.989990234375

88.87999725341797

123.26499938964844

111.11109924316406

id

1

2

3

4

name

zzz

asd

aaa

cmpe281

## After

Delete http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/project/4?f=json

Request 1

Method

DELETE

Endpoint

http://1-dot-cmpe281-mengxuan444.appspot.com

Resource

/cmpe281Mengxuan444/rest/project/{m}

Parameters

?f=json

Raw

Request

Name	Value	Style	Level
f	json	QUERY	RESOURCE
m	4	TEMPLATE	RESOURCE

Required: ☐ Sets if parameter is required

Type:

Options: 

Add..

Media Type 

application/json

☐ Post QueryString

Raw

JSON

HTTP/1.1 200 OK  
X-Cloud-Trace-Context: d90403be52b8f70989d59e4ee0f2d052;o=1  
Date: Thu, 10 Nov 2016 04:15:55 GMT  
Content-Type: text/html  
Server: Google Frontend  
Content-Length: 0

Grid icon

Datstore

Entities

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Entities

CREATE ENTITY

REFRESH

DELETE

Query by kind

Query by GQL

Kind

project

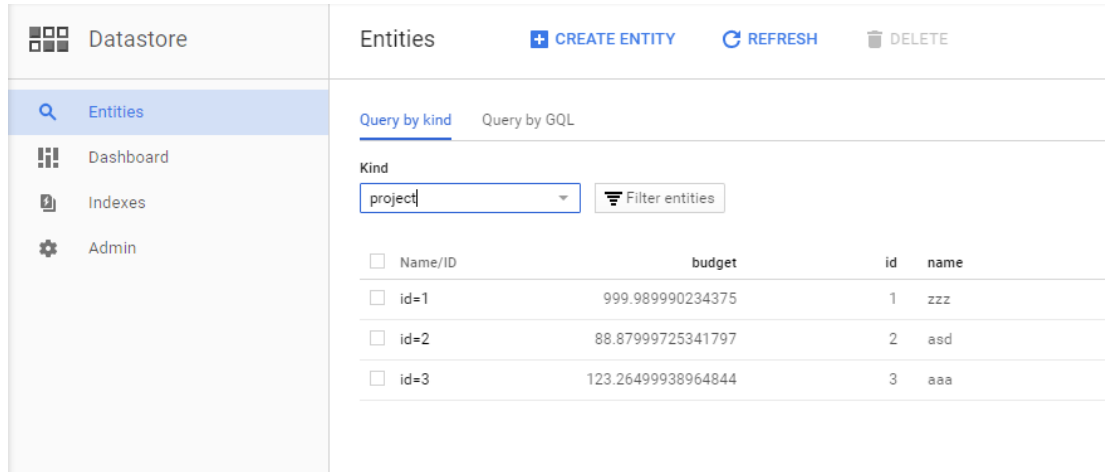
Filter entities

<input type="checkbox"/> Name/ID	budget	id	name
<input type="checkbox"/> id=1	999.989990234375	1	zzz
<input type="checkbox"/> id=2	88.87999725341797	2	asd
<input type="checkbox"/> id=3	123.26499938964844	3	aaa



## Rest request and response: Error

### Before

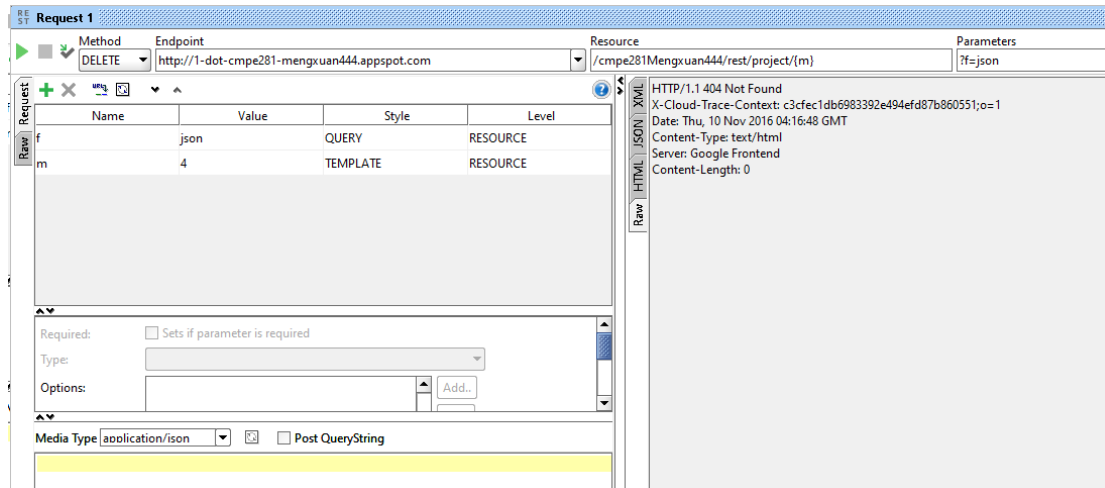


The screenshot shows the Google Cloud Datastore 'Entities' page. The left sidebar has 'Datastore' selected. The main area has 'Entities' selected, with a search bar containing 'project'. Below the search bar, there are three entities listed in a table.

Name/ID	budget	id	name
id=1	999.989990234375	1	zzz
id=2	88.87999725341797	2	asd
id=3	123.26499938964844	3	aaa

### After

Delete [http:// 1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/rest/project/4?f=json](http://1-dot-cmpe281-mengxuan444.appspot.com/cmpe281Mengxuan444/rest/project/4?f=json)



The screenshot shows a REST client interface. The top bar indicates 'Request 1'. The 'Method' is 'DELETE', the 'Endpoint' is 'http://1-dot-cmpe281-mengxuan444.appspot.com', the 'Resource' is '/cmpe281Mengxuan444/rest/project/m', and the 'Parameters' are '?f=json'. The 'Request' tab is selected, showing a table with two rows: 'f' with value 'json' and 'm' with value '4'. The 'Response' tab is also visible, showing an 'HTTP/1.1 404 Not Found' status and headers: 'X-Cloud-Trace-Context: c3cfec1db6983392e494efd87b860551;o=1', 'Date: Thu, 10 Nov 2016 04:16:48 GMT', 'Content-Type: text/html', 'Server: Google Frontend', and 'Content-Length: 0'.