

Task

Create a REST API that provides JSON Object Store functionality.

Requirements

The minimum implementation features HTTP GET PUT POST DELETE methods.

All request and response bodies must use `application/json` MIME type.

The base URI of the application should be at `/`

At `/` return a JSON list, that should contain strings. Each string in this list should be a namespace available under `/`

At your leisure you may implement arbitrary depth namespaces under `/`

Disambiguation

For example if you got a list that contains the string `"foo"` then `/foo` should provide a json object as a response on an HTTP GET request

GET operations

List available namespaces

Request

```
HTTP 1.1 GET /
```

Response

```
HTTP 1.1 200 /
```

```
Content-Type: application/json
```

```
[ "foobar" ]
```

Get content under a namespace

Request

HTTP 1.1 GET /foobar

Response

HTTP 1.1 200 /foobar

Content-Type: application/json

```
{ "foo": "bar" }
```

PUT operations

Create namespace

Send a valid JSON object via PUT method to an URI, not listed under /

Request

HTTP 1.1 GET /

Response

HTTP 1.1 200 /

Content-Type: application/json

```
[ ]
```

Request

HTTP 1.1 PUT /foobar

Content-Type: application/json

Body:

```
{ "foo": "bar" }
```

Response

HTTP 1.1 201 /foobar

Content-Type: application/json

```
{ "created": true, "namespace": "foobar" }
```

Request

HTTP 1.1 GET /

Response

HTTP 1.1 200 /

Content-Type: application/json

["foobar"]

Request

HTTP 1.1 GET /foobar

Response

HTTP 1.1 200 /foobar

Content-Type: application/json

{ "foo": "bar" }

POST operations

Update content under a namespace

Request

HTTP 1.1 GET /foobar

Response

HTTP 1.1 200 /foobar

Content-Type: application/json

{ "foo": "bar" }

Request

HTTP 1.1 POST /foobar

Content-Type: application/json

Body:

```
{ "baz": 42 }
```

Response

HTTP 1.1 202 /foobar

Content-Type: application/json

Body:

```
{ "updated": true, "namespace": "foobar" }
```

Request

HTTP 1.1 GET /foobar

Response

HTTP 1.1 200 /foobar

Content-Type: application/json

```
{ "foo": "bar", "baz": 42 }
```

DELETE operations

Delete namespace

Request

HTTP 1.1 DELETE /foobar

Response

HTTP 1.1 200 /foobar

Content-Type: application/json

Body:

```
{ "deleted": true, "namespace": "foobar" }
```

