CRUOUx actual CRUD throughout the stack

Stack	Create	Read	Overwrite	Update	Delete
Front end	Post	G et	P ut	P atch	Delete
Local store	C reate	R ead	O verwrite	U pdate	Delete
Web service	Post	G et	P ut	Patch	Delete
Data store	C reate	${f R}$ ead	Overwrite	U pdate	U pdate* mark

Front end (HTML / JS, Cocoa[Touch,] win32, android, others)

- 1. Post
- 2. **G**et
- 3. **P**ut
- 4. Patch
- 5. Delete

Data store local to the front end

(Redis, CoreData, sqlite, localStorage, elasticsearch(assisting index,) etc)

- 1. Create
- 2. Read
- 3. Overwrite
- 4. Update
- 5. Delete

Web services SOAP / REST API

(Swift w/kitura / perfect / vapor / others, Nginx w/upstream, NodeJS w/express / others, etc)

- 1. Post
- 2. **G**et
- 3. **P**ut
- 4. Patch
- 5. Delete

Data store

(postgreSQL, couchdb, Joyent Manta, MySQL, elasticsearch(assisting index,) etc)

- 1. Create
- 2. Read
- 3. Overwrite
- 4. Update
- 5. Update* mark as deleted
 - * Personal preference is a timestamp named _x

Update* mark as deleted

Even though my * Personal preference is a timestamp named _x in order not to loose history

There may or may not be maintenance and performance benefits in producing a intermittent relational layer between your data and your UI to allow the user to delete the key to the data, yet with the data in a 3rd Data table where your actual data resides.

UI	Intermittent	Data
orderID	orderID	orderID
		orderDate
		orderName

Best of all worlds

Editorial tools for LAN / back office

(HTML/JS, Desktop dbs such as FileMaker Pro)

Pre publishing cycle Deploying your product to your infrastructure

- 1. Integration receive data from supplier
- 2. Update digitally entered material to be of desired level
- 3. Approve editorial work
- 4. Publish editorial work

Publishing

Deploying your product to your infrastructure FileMaker XML export w/XSLT to

- 1. Pre rendered HTML
- 2. Pre rendered sitemap.xml
- 3. PostgreSQL
- 4. Elastic Search

Upload images

Example by use case CRUOUx or CRUD(simplified) calls using curl for Kitura, Restify, Express, Vapor, the likes

- 1. Create by using POST
- 2. Read by using GET
- 3. Update replace value at key for :id in payload by using PATCH
- 4. Overwrite replace :id by payload using PUT
- 5. Delete by using DELETE or mark for deletion by using PATCH

Create

```
$ curl -XPOST http[s]://localhost/
payload:
"field1":"field1content",
"field2": "field2content",
"field3":"field3content"
```

Result a record is generated with 3 fields and their respective

Read

```
$ curl -XGET http[s]://localhost/:id
No payload.
result:
"field1":"field1content",
"field2": "field2content",
"field3":"field3content"
```

Update

```
$ curl -XPATCH http[s]://localhost/:id
payload:
"field1":"field1contentNew",
"field2":"field2contentNew"
```

Result: only field1 and field2 will have its content replaced for resource / record at key :id.

```
Result:

{
  "field1":"field1contentNew",
  "field2":"field2contentNew",
  "field3":"field3content"
```

Overwrite

```
$ curl -XPUT http[s]://localhost/:id
payload:
{
  "field1":"field1contentNew",
  "field2":"field2contentNew"
}
```

Result: All other fields than field1 and field2 will be emptied while field1 and field2 will have their content replaced for

```
Result:
{
  "field1":"field1contentNew",
  "field2":"field2contentNew"
}
```

Note that field3 from POST is gone

```
{
"field3":"field3content"
}
```

Delete

curl -XDELETE http[s]://localhost/:id

No payload

Result resource at :id will be gone

Update mark for deletion

```
curl -XPATCH http[s]://localhost/:id
payload:
{
  "_x":"CCYY-MM-DD HH:II:SS"
}
```

Result:

```
"field1":"field1content",
"field2":"field2content",
"field3":"field3content",
"_x":"2018-08-13 19:52:00"
}
```

Gjermund Gusland Thorsen Keyboard Masseur



"On the day a computer is more to you than paper and pencil, that day you have become a fanatic."
- Gjermund Gusland Thorsen



"I was evil, I did her harm, still she thought it to be good.

I had given her the greatest gift of them all, the gift of missing me."

- Gjermund Gusland Thorsen



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