

# CRUOUx actual CRUD throughout the stack

Stack	Create	Read	Overwrite	Update	Delete
Front end	Post	Get	Put	Patch	Delete
Local store	Create	Read	Overwrite	Update	Delete
Web service	Post	Get	Put	Patch	Delete
Data store	Create	Read	Overwrite	Update	Update* mark as deleted (timestampz)

# Front end

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

1. **P**ost
2. **G**et
3. **P**ut
4. **P**atch
5. **D**elete

# 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. **P**ost
2. **G**et
3. **P**ut
4. **P**atch
5. **D**elete

# Data store

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

1. **C**reate
2. **R**ead
3. **O**verwrite
4. **U**pdate
5. **U**pdate\* mark as deleted

**U**ppdate\* 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

**Unload images**

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**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": "field1 content",  
  "field2": "field2 content",  
  "field3": "field3 content"  
}
```

Result a record is generated with 3 fields and their respective

# Read

```
$ curl -XGET http[s]://localhost/:id
```

No payload.

result:

```
{  
  "field1": "field1 content",  
  "field2": "field2 content",  
  "field3": "field3 content"
```

# Update

```
$ curl -XPATCH http[s]://localhost/:id
```

payload:

```
{  
  "field1": "field1 contentNew",  
  "field2": "field2 contentNew"  
}
```

Result: only field1 and field2 will have its content replaced for

Result:

```
{  
  "field1": "field1 contentNew",  
  "field2": "field2 contentNew",  
  "field3": "field3 content"  
}
```



# Overwrite

```
$ curl -XPUT http[s]://localhost/:id
```

payload:

```
{  
  "field1": "field1 contentNew",  
  "field2": "field2 contentNew"  
}
```

Result: All other fields than field1 and field2 will be emptied

Result:

```
{  
  "field1": "field1 contentNew",  
  "field2": "field2 contentNew"  
}
```

**Note that field3 from POST is gone**

```
{  
  "field3": "field3 content"  
}
```

# 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": "field1 content",  
  "field2": "field2 content",  
  "field3": "field3 content",  
  "_x": "2018-08-13 19:52:00"  
}
```

# **Gjermund Gusland Thorsen**

## **Keyboard Masseur**

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**“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**



# Made with Deckset

