

# CRUOUx actual CRUD throughout the stack

Stack	Create	Read	Overwrite	Update	Delete
Front end	<b>P</b> ost	<b>G</b> et	<b>P</b> ut	<b>P</b> atch	<b>D</b> elete
Local store	<b>C</b> reate	<b>R</b> ead	<b>O</b> verwrite	<b>U</b> ppdate	<b>D</b> elete
Web service	<b>P</b> ost	<b>G</b> et	<b>P</b> ut	<b>P</b> atch	<b>D</b> elete
Data store	<b>C</b> reate	<b>R</b> ead	<b>O</b> verwrite	<b>U</b> ppdate	<b>U</b> ppdate* mark as deleted (timestamptz)

# 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
  - \* 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": "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 resource / record at key :id.

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 while field1 and field2 will have their content replaced for

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

**Gjermund G 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**





**Made with Deckset**

