

REST conventions

Authentication using Headers (X-HIN- ...)

Filters using GET parameter

HTTP Methods as expected (GET, POST, PUT, PATCH, DELETE)

Subresource if used exclusively relative to single parent

Controller functions using POST method & verb in route

Session state using GET /api/me

Source: restfulapi.net, api-platform.com, Azure AD

HTTP Method conventions

GET to *read* (read only, no modifications)

POST to *create*

PUT to *replace* (replace WHOLE object)

PATCH to *modify* (send only diff to current object)

DELETE to *remove*

Source: RestApiTutorial.com, rfc7231

Examples

GET /api/users

to list all users

GET /api/users?institutionId=55db0d06087

to display all users of selected institution

GET /api/users?id[]=55db0d060&id[]=55db0d3308

to get two users with a specific ID

POST /api/users

to add user

GET, PATCH, PUT, DELETE /api/users/55db0d060

to get, update, replace or remove user

GET /api/institutions/55db0d060/settings

to get settings of institution

POST /api/mailbox/918239719237912/clear

to clear mailbox

GET /api/me

to return current session state (user, institution)

REST domains

Prefer single concept over get-all

Prefer single dimension over deep tree structure

Because:

- Simplicity
- Ease interoperability of API calls
- Ease switch to relational database

Yes-Examples

GET /api/institutions/55db0d06087

GET /api/institutions/55db0d06087/settings

database stores settings inside institution
but two routes as different concepts

GET /api/institutions/55db0d06087/blockedEmails

database stores blockedEmails as a list of strings
but each blocked email exposed as its own entity

GET /api/institutions/55db0d06087/trays

database stores trays at different places
but exposed as a single API call

No-Examples

GET /api/institutions/55db0d06087/settings/multimed
exposing multimed settings as its own route as too much overhead

GET /api/institutions/55db0d06087/featureFlags

exposing feature flags as own entities as only sensible in combination

REST domains

Example: Single dimension over deep tree structure

```
{
  "fileNameDefinition" : {
    "definition" : [
      "PSW_ID",
      "PAPER_SENDER",
      "PATIENT_LAST_NAME",
      "PAPER_SEND_DATE",
      "PATIENT_GENDER",
      "PATIENT_BIRTH_DAY"
    ]
  },
  "cleanupAfter" : 30,
  "cleanupDraftsAfter" : 0,
  "cleanupFaxSpamAfter" : 30,
  "allowInsecureMail" : true,
  "features" : [
    "HIN_GLOBAL",
    "FREE_TEXT"
  ],
  "blueSafeSettings" : {
    "defaultEnabledForIncoming" : false,
    "defaultEnabledForOutgoing" : false
  },
  "multimedSettings" : {
    "defaultPatientCopyEnabled" : true,
    "defaultTelemedicineCopyEnabled" : true
  },
  "signaturePosition" : "LEFT",
  "findInactivePatients" : false,
  "language" : "fr"
}
```

```
{
  "fileNameDefinition" : [
    "PSW_ID",
    "PAPER_SENDER",
    "PATIENT_LAST_NAME",
    "PAPER_SEND_DATE",
    "PATIENT_GENDER",
    "PATIENT_BIRTH_DAY"
  ],
  "cleanupAfter" : 30,
  "cleanupDraftsAfter" : 0,
  "cleanupFaxSpamAfter" : 30,
  "allowInsecureMail" : true,
  "features" : [
    "HIN_GLOBAL",
    "FREE_TEXT"
  ],
  "blueSafeEnabledForIncoming" : false,
  "blueSafeEnabledForOutgoing" : false,
  "multimedPatientCopyEnabled" : true,
  "multimedTelemedicineCopyEnabled" : true,
  "signaturePosition" : "LEFT",
  "findInactivePatients" : false,
  "language" : "fr"
}
```