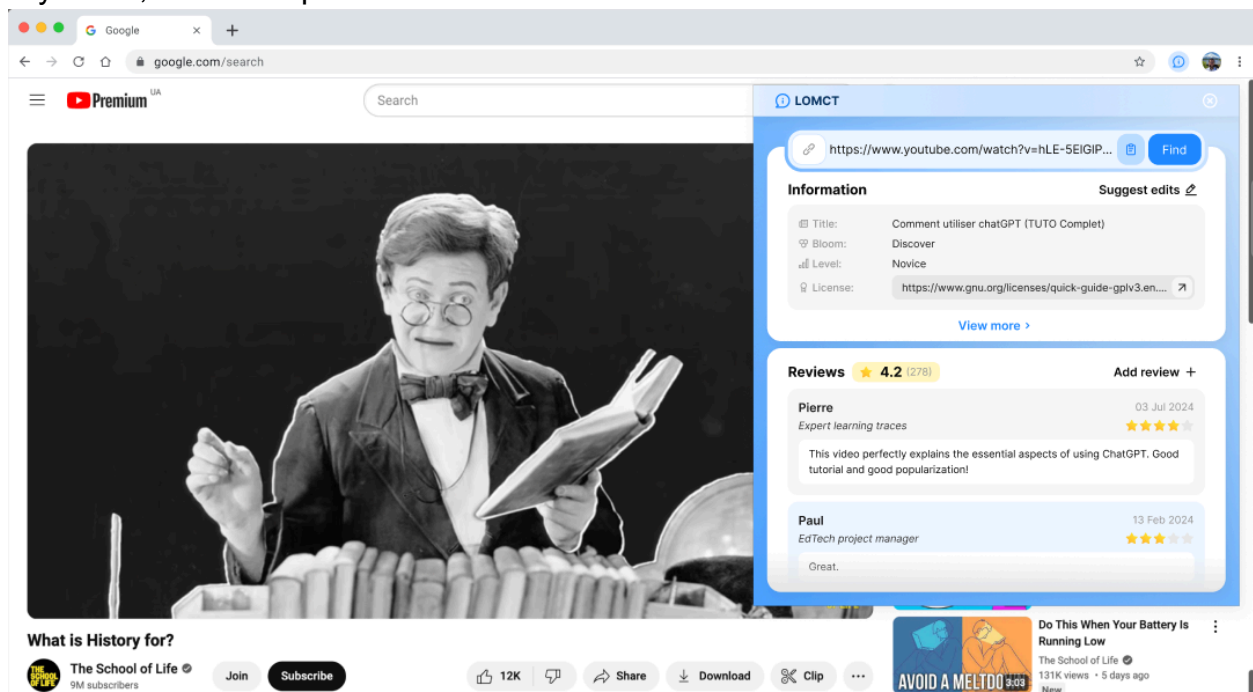# Mock-up LOMCT

How have we carried out the mock-up for our building block 'LOMCT'?

The following document is designed to show the process through which Inokufu created the mock-up for the Building Block 'Learning Object Metadata Crowd Tagging (LOMCT).'

The data push related to this mock-up aims to simulate the transfer of data from this Chrome extension, LOMCT, to the learning record store of an organization that has acquired the service linked with this building block.

To elaborate, LOMCT is a Chrome extension that allows an organization, whether it be an educational institution or an edtech company, to enrich the metadata of the learning objects used by its members, both for teaching and learning purposes. More specifically, users can review the learning objects by assigning them a score between 0 to 5 stars and providing a brief text where they enrich their rating with a comment.

Additionally, they can make suggestions to the authority to modify the information attached to a learning object, such as the language of the material, the type of learning object (video, article, podcast, etc.), its duration, the educational level it is relevant for, keywords, and other parameters.

Once these actions are completed by users, an xAPI statement is generated for each review or edit proposal and then sent to the organization's LRS. It is precisely this communication between the Chrome extension and the LRS that was intended to be reproduced or simulated in this mock-up.

How to configurate the Learning Records Store?

To execute the mock-up, a store was created in the Learning Records Store "Learning Locker," named "Mockup LOMCT," with two clients: one to receive data from the BB in question - Mockup LOMCT Read - and another to send data - Mockup LOMCT Write.

In terms of configuring both clients, as seen in the following screenshot, we set up one of them to be able to receive xAPI statements, so we configured it to 'Read all' and linked it with the store "Mockup LOMCT"

Once that client was created, we proceeded to create the other one through which we will send xAPI statements, so we clicked on "Write statements (must be used with a read scope)" and linked too with the store "Mockup LOMCT"

It should be noted that the 'key' and the 'secret' are necessary credentials to connect the clients of a store with the endpoint it will communicate with, which in this case would be the extension account of the organization that is the protagonist of this data push from LOMCT to its LRS. We can access these credentials by going to the settings section, then to clients, and finally selecting the client for which we want to find out the key and the secret. Furthermore, if they require our read or write keys, they should [contact us.](#)

Nature of the data that have been sent

The data push has already been triggered, and we received 14 xAPI statements. These records pertain to reviews and metadata edit proposals made by users. Considering the functionalities of this building block, the statements with the xAPI verb 'Reviewed' simulate a review made by a user, while the statements with the verb 'Proposed' describe a metadata edit proposal made by a user using the extension.

> Mockup LOMCT write **proposed** Robert Baden-Powell	3 days ago
> victorhugo **http://id.tincanapi.com/verb/reviewed** https://www.youtube.com/watch?v=hLE-5ElGIPM	4 days ago
> victorhugo **proposed** What is History for?	4 days ago
> Baden-Powell **proposed** Robert Baden-Powell	6 days ago
> Pierre **http://id.tincanapi.com/verb/reviewed** https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell	3 months ago
> Jacque **http://id.tincanapi.com/verb/reviewed** https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell	3 months ago
> victorhugo **http://id.tincanapi.com/verb/reviewed** https://en.wikipedia.org/wiki/Nonformal_learning	5 months ago
> Baden-Powell **http://id.tincanapi.com/verb/reviewed** https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell	5 months ago
> victorhugo **http://id.tincanapi.com/verb/reviewed** https://www.youtube.com/watch?v=wq8Wu1erCFU	6 months ago
> Pierre **proposed** Robert Baden-Powell !	6 months ago
> victorhugo **http://id.tincanapi.com/verb/reviewed** https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell	7 months ago
> Pierre **http://id.tincanapi.com/verb/reviewed** https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell	7 months ago
> Mathilda **proposed** What is History?	8 months ago
> victorhugo **proposed** Roebrt Baden-Powell	8 months ago

Example Of a particular xAPI statements received by the Mockup LOMCT store
We will use the following xAPI statements received in the store corresponding to the LOMCT mockup as an example to demonstrate how this mockup addresses educational needs.

The following two statements correspond to the review and edit proposal made by the a user through the extension:

- The first statement reflects a review of ⅘ stars made by the user "Baden-Powell" to the learning object:
  https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell
  Additionally, as it is a mandatory field, he attached a comment:
  "Overall very interesting. What's missing is a section on how he came to scouting."

- The second statement pertains to the metadata edit proposal made by the same user to the same learning object, where it proposes a bloom's taxonomy verbe - discover- and a provider -wikipedia-.

From a pedagogical perspective, the review and metadata edit proposals allow both learners and trainers to rate and provide their insights on the materials they use to teach

or learn. This enriches the information attached to those objects, thereby improving their discoverability and quality. In this case, the statements also highlight the user's profession—"biography: Scouting expert"—which provides insight into who is making the review or edit proposal and their reasoning.

In other words, if another user is looking for material to introduce or discover a certain topic, that learning object already contains valuable information for use by that other user of the extension, both for teaching and for learning.

The statements its self:

- Baden-Powell http://id.tincanapi.com/verb/reviewed https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell

```
{
"authority": {
  "objectType": "Agent",
  "name": "Mockup LOMCT write",
  "mbox": "mailto:contact@inokufu.com"
},
"timestamp": "2024-04-10T14:17:43.686Z",
"version": "1.0.0",
"context": {
  "extensions": {
    "http://schema.prometheus-x.org/extension/username": "Baden-Powell",
    "http://schema.prometheus-x.org/extension/biography: "Scouting expert"
  },
"language": "en"
},
"actor": {
  "name": "Baden-Powell",
  "mbox": "mailto:lauriane.marxer+lomct2@inokufu.com",
  "objectType": "Agent"
},
"verb": {
  "id": "http://id.tincanapi.com/verb/reviewed",
},
"object": {
  "id":
"https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell"
,
```

```
  },
  "result": {
    "score": {
      "scaled": 1.0,
      "raw": 4,
      "min": 0,
      "max": 5
    },
    "response": "Overall very interesting. What's missing is a section on how
he came to scouting."
  },
}
```

- Baden-Powell http://id.tincanapi.com/verb/proposed
  https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell

```
{
"authority": {
  "objectType": "Agent",
  "name": "Mockup LOMCT write",
  "mbox": "mailto:contact@inokufu.com"
},
"timestamp": "2024-09-03T14:17:43.686Z",
"context": {
  "extensions": {
    "http://schema.prometheus-x.org/extension/username": "Baden-Powell",
    "http://schema.prometheus-x.org/extension/biography": "Scouting expert",
    "http://schema.prometheus-x.org/extension/bloom": "discover",
    "http://schema.prometheus-x.org/extension/provider": "wikipedia"
  },
"language": "en"
},
"actor": {
  "name": "Baden-Powell",
  "mbox": "mailto:lauriane.marxer+lomct2@inokufu.com",
  "objectType": "Agent"
},
"version": "1.0.0",
"id": "8f5e30f6-312e-4ec6-bc60-a37bcb1811ed",
"verb": {
  "id": "https://w3id.org/xapi/dod-isd/verbs/proposed",
  "display": {
    "en-US": "proposed"
  }
```

```
},
"object": {
  "id":
"https://en.wikipedia.org/wiki/Robert_Baden-Powell,_1st_Baron_Baden-Powell",
  "definition": {
    "name": {
      "en": "Robert Baden-Powell"
    }
  },
"objectType": "Activity"
},
}
```

Use cases

We can consider two scenarios in which a company could receive or send statements like the ones we have shown above:
- An edtech company that wants to share reviews and information (or edit proposals) about learning objects created by its users with other organizations via the dataspace. The statements to be sent must adhere to the xAPI format.
- Similarly, another edtech company or educational institution seeks to allow its members to provide feedback on the learning objects they use, receiving the corresponding statements in xAPI format for reviews and edit proposals in their LRS.

Contact

If you are interested in obtaining a read or write key, contact us directly.
Send us your use case, the type of your data, the number of traces you want to send or receive, and what kind of trace you need.

Sebastian: sebastian.utard@inokufu.com
Lauriane: lauriane.marxer@inokufu.com