xAPI Use Case Template

Use Cases & Statement Templates for xAPI Projects and Profiles

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# I. Introduction

A Profile is simply a specific set of rules and documentation of application-specific vocabulary, extensions, or other data used when implementing RESTful Web APIs, such as the Experience API (xAPI). Application semantics may refer to how things are expressed in the real world, and computers have trouble understanding application semantics without a Profile. Humans benefit from profiles as it provides useful documentation for implementation and reuse.

Designing content and generating analytics with xAPI are both informed by the practices of semantically describing vocabulary concepts (e.g., verbs) as well as identifying the Statement structure associated with the data. A Profile serves as a blueprint for successfully implementing xAPI. Sections of this document are intentionally left blank so it can serve as a template for your xAPI design.

# Status of this Document

### Owner

|  |  |  |
| --- | --- | --- |
| **Name** | **Website** | **Email** |
|  |  |  |

### Revision History

|  |  |  |
| --- | --- | --- |
| **Version** | **Issue Date** | **Description/Summary of changes** |
| 1.0 |  | Initial draft of statement data model, profile vocabulary terms used, and use cases with example statements. |
|  |  |  |

# 

# II. xAPI Statement Data Model

|  |  |  |
| --- | --- | --- |
| Property | Value | Usage |
| Actor | | |
| name | Name of the student | Required |
| account | | |
| homePage | URL of the home page of the account management system | Required |
| name | User identifier in the account management system | Required |
| Verb | | |
| id | IRI of the verb (see table below for list of verbs) | Required |
| display | Language map of lang code keys to display values | “en”: “<verb display>” Required |
| Object | | |
| id | IRI of the activity | Required |
| definition | | |
| name | Lang map of the name of the activity | Preferred |
| description | Lang map of the description of the activity | Optional |
| type | IRI representing the type of activity (see table below for list of activity types) | Required |
| moreInfo | URL to more information | Optional |
| extensions | | |
|  |  |  |
| Result | | |
| score | | |
| success | Boolean representing the learner’s success | Optional |
| completion | Boolean representing if the learner completed the activity | Optional |
| response | Learner’s response regarding the activity | Optional |
| duration | Duration of time spent in the activity (ISO 8601 duration) | Optional |
| extensions | | |
|  |  |  |
| Context | | |
| registration | UUID | Optional |
| instructor | Agent | Optional |
| team | Group | Optional |
| contextActivities | Object | See Use Cases Below |
| revision | String | Optional |
| platform | String | Optional |
| language | String / lang code | Optional |
| statement | Statement Reference | Optional |
| extensions | | |
|  |  | Optional |
| timestamp | ISO timestamp String | Required |
| AUT | | |
| Attachments | | |
|  |  | Optional |

# III. Profile Concepts

List all of the titles/labels and IRIs for the concepts you will use for your xAPI project. This should include both new concepts that you will create and existing concepts that were reused from <http://xapi.vocab.pub>.

|  |  |
| --- | --- |
| Verbs | |
| **Label** | **IRI** |
|  |  |

|  |  |
| --- | --- |
| Activity Definition Types | |
| **Label** | **IRI** |
|  |  |

|  |  |  |
| --- | --- | --- |
| Context Activities | | |
| **Label** | **IRI** | **Type** |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| Context Extensions | | |
| **Label** | **IRI** | **Type** |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| Result Extensions | | |
| **Label** | **IRI** | **Type** |
|  |  |  |

# IV. Use Cases

Describe each of the use cases for your xAPI project. What is the business impact to reporting and analytics for each use case?

|  |  |
| --- | --- |
| **UC#01: Actor Initialized A Video (EXAMPLE)** | |
| **Description:** | The actor starts or initializes the video. |
| **Actor(s):** | * Learner |
| **Precondition(s):** | List any activities that must take place, or any conditions that must be true, before the use case can be started.   * Video is recorded, edited, and uploaded/hosted on the web (youtube) * Video link is provided to learner * Video link is clicked, tapped or shared using a computer interface or mobile device |
| **Use Case Scenario / Workflow / System Interfaces:**  Describe in sequence the normal course of events of the use case. Number each step or event.   1. Learner opens on the link (shared by the instructor) 2. “initialized” verb is sent in xAPI statement | |
| **Postcondition(s):** | List any activities that take place after or as a result of the use case.   * The video is played * xAPI statement is sent to LRS |
| **Business Impact:** | List any of the types of reports or analytics that will be possible as a result of this use case.   * Reports of how many times users accessed a video. * Visualizations or dashboards that convey user access over time. * Correlation of how many users started the video but did not complete it. |
| Sample Statement | |
| **Sample Statement:**  {  "actor": {  "mbox": "mailto:johnny.appleseed@example.com",  "name": "Johnny Appleseed",  "objectType": "Agent"  },  "verb": {  "id": "http://adlnet.gov/expapi/verbs/initialized",  "display": {  "en-US": "initialized"  }  },  "object": {  "definition": {  "type": "https://w3id.org/xapi/video/activity-type/video",  "name": {  "en-US": "Ocean Life"  },  "description": {  "en-US": "Video of ocean life."  }  },  "id": "http://vjs.zencdn.net/v/oceans.mp4",  "objectType": "Activity"  },  "timestamp": "2017-06-28T18:41:44.443Z",  "context": {  "extensions": {  "https://w3id.org/xapi/video/extensions/volume": 1,  "https://w3id.org/xapi/video/extensions/video-playback-size": "640x264",  "https://w3id.org/xapi/video/extensions/user-agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10\_12\_3) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110 Safari/537.36",  "https://w3id.org/xapi/video/extensions/cc-enabled": true,  "https://w3id.org/xapi/video/extensions/cc-subtitle-lang": "en",  "https://w3id.org/xapi/video/extensions/screen-size": "2560x1440",  "https://w3id.org/xapi/video/extensions/session-id": "41a8588b-e0ef-4432-9eb4-7308671f3dd4",  "https://w3id.org/xapi/video/extensions/speed": "1x",  "https://w3id.org/xapi/video/extensions/full-screen": false  },  "contextActivities": {  "category": [  {  "id": "https://w3id.org/xapi/video"  }  ]  }  },  "id": "41a8588b-e0ef-4432-9eb4-7308671f3dd4"  } | |