

O-META

User Guide v1.0

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O-META INTRODUCTION

- The O-META database schema and code are designed to allow great flexibility in establishing events against projects and samples. It is intended that myriad diverse projects may be created and their ongoing operations may be represented using this code, but without re-architect-ing for each new project or event. Once in the system, the web or spreadsheet display can show any of the attributes the user provides, and the display code may be customized independently of the storing code.
- O-META allows user to:
 - track data by ontologies served by Ontology Lookup Service
 - configure a project with user defined metadata structures for great flexibility
 - differentiate sets of data by triggering flags on metadata
 - control the data accessibility by managing user roles
 - navigate the full history of events against projects and samples
 - generate dynamic data reports

O-META MAIN MENU



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Project Events **Report**

Common

Project Events

Load Event

Report

Event Detail

Event Report

Admin

Admin **Project Events**

Project Setup

Project Metadata Setup

Sample Metadata Setup

Event Metadata Setup

The main page has the top menu bar with sub-menus and text buttons for help, registration, and user login. Admin users will see 'Admin' menu item that provides admin-only tasks.

USER(ACTOR) - REGISTRATION

Register Actor

ACTOR INFORMATION

User ID

User ID must match your UNIX ID

First Name

Middle Name

Last Name

Email

Register

Clear

First time users(actors) must register themselves in order to navigate and load data within the application. For an environment with LDAP, users only need to provide their LDAP ID and basic information. Users will be prompted to enter desired passwords when there is no LDAP available. Fresh users get general view and edit privileges, and other permissions can be granted by the system administrator.

USER - LOGIN



[Help](#) | [Register](#) | [Log in](#)

[Project Events](#) [Report](#)

O-META: Ontologies based Matadata Tracking Application

User Name

Password

[Login](#)

or please [Register](#) to use the system.

The latest versions of **Firefox(v.14+)**, **IE(v.9+)** or **Chrome(v.22+)** are recommended in using O-META.
If you experience difficulties with a particular browser, please contact [Help](#).



[Help](#) | Hyunsoo Kim, [Log Out](#)

[Admin](#) [Project Events](#) [Report](#)

WORKFLOW OVERVIEW

① Project Setup(Admin Role Required)

- Only users with 'Admin' role can load new projects.
- supports hierarchical project relationships. (parent-child)

② Event Metadata Setup(Admin Role Required)

- Defines event types and sets of attributes for a project
- can define project/sample metadata with simple checkboxes
- supports ontology

③ Project Metadata Setup(Admin Role Required)

- can define project level attributes that already exist at event level (2)
- supports ontology
- this step can be also done in (1), but it can edit the metadata as requirements change

④ Sample Metadata Setup(Admin Role Required)

- can define sample level attributes that already exist at event level (2)
- support ontology

WORKFLOW OVERVIEW(CONT)

⑤ Load Sample or Project

- utilizes Load Event (6) with SampleRegistration event type
- admin has to configure SampleRegistration event first
- insert values for metadata defined in (2) or (4)
- supports hierarchical relationship between samples

⑥ Load Event

- loads values for pre-defined metadata of event types in (2)
- supports batch loads by providing template download and grid load form
- can load new projects and samples along with events

⑦ View & Track the Data

- search and navigate the whole history
- in-page dynamic data modification (**coming-soon feature!**)
- search and visualize data by ontologies (**future add-on!**)

⑧ Generate Event Report

- supports user configurable data reports

PROJECT SETUP

The screenshot shows the 'Project Setup' interface. On the left, a sidebar menu has 'Project Setup' highlighted with a red box and an arrow pointing to the main form. The main form is titled 'Project Setup' and contains two sections: 'PROJECT INFORMATION' and 'PROJECT ATTRIBUTES'. In the 'PROJECT INFORMATION' section, 'Project Name' is a text field, 'Parent Project' is a dropdown menu with 'None' selected, 'Public' and 'Secure' are toggle buttons set to 'No', 'Edit Group' is a dropdown menu with 'Select Edit Group' selected, and 'View Group' is a dropdown menu with 'Select View Group' selected. Red arrows point from the 'Parent Project' dropdown to a list of projects: 'Test100', 'TEST100', 'TEST100-P1', and 'TEST100-P2'. Another red arrow points from the 'Edit Group' dropdown to a list of roles: 'Select Edit Group' (checked), 'General-Edit', 'General-View', and 'General-Admin'. The 'PROJECT ATTRIBUTES' section has a table with columns: Attribute, Active, Required, Options, Desc, and Value. Below the table are buttons: 'Load Project', 'Add Project Attribute', 'New Attribute', and 'Clear'.

Admin Project Event

- Project Setup**
- Project Metadata Setup
- Sample Metadata Setup
- Event Metadata Setup

Project Setup

PROJECT INFORMATION

Project Name

Parent Project

Public

Secure

Edit Group

View Group

PROJECT ATTRIBUTES

Attribute	Active	Required	Options	Desc	Value
-----------	--------	----------	---------	------	-------

Test100

- TEST100
- TEST100-P1
- TEST100-P2

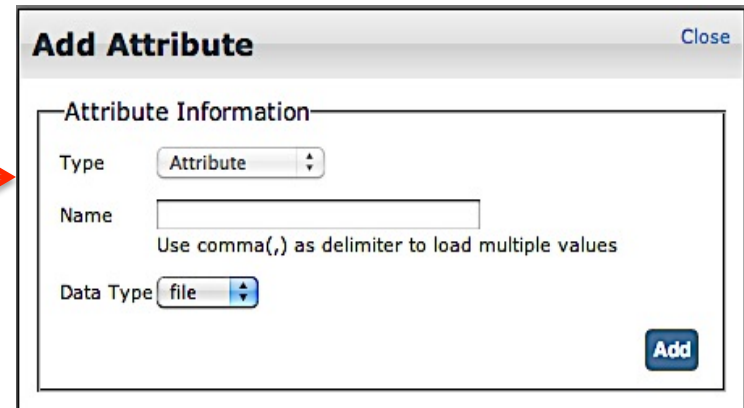
✓ Select Edit Group

- General-Edit
- General-View
- General-Admin

Loading a new project will create 'ProjectRegistration' event with given attributes as metadata then store its values. Parent project can be searched and assigned from projects that already exist in the database. Public flag can be used for differentiating internal data from external data, and it will be used by ETL process that promotes data to external database(if applicable). Secure flag allows access from users with appropriate roles for viewing and editing. Two separate roles can be applied to each project, one for editing and the other for viewing. Users with corresponding roles will have the privilege to perform the jobs that they have access to. *There is a batch load that allows users to load multiple child projects with a single transaction in Event Loader (see Event Loader section).*

PROJECT SETUP(CONT)

Load Project Add Project Attribute New Attribute Clear



The 'Add Attribute' dialog box contains the following fields:

- Attribute Information** (Section Header)
- Type**: A dropdown menu with 'Attribute' selected.
- Name**: A text input field with a placeholder text: 'Use comma(,) as delimiter to load multiple values'.
- Data Type**: A dropdown menu with 'file' selected.
- Add**: A button in the bottom right corner.
- Close**: A button in the top right corner.

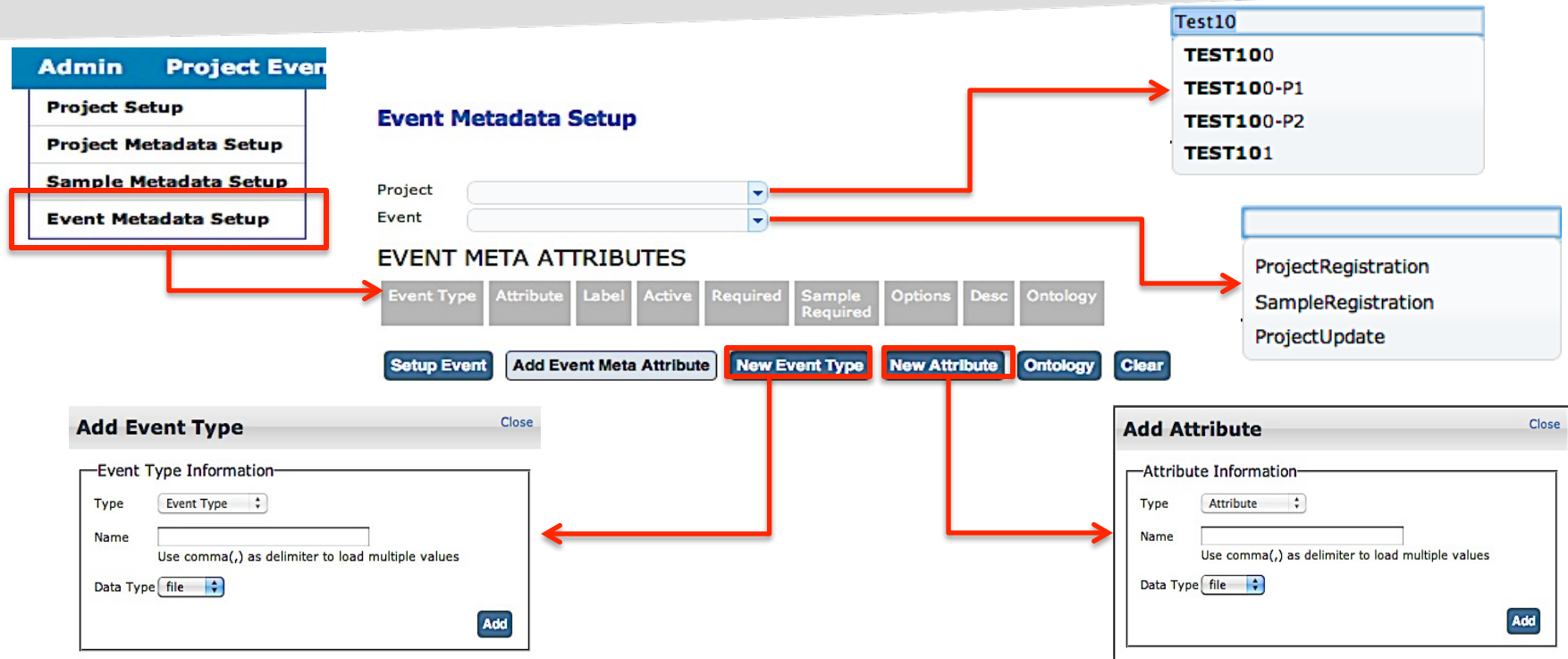
PROJECT ATTRIBUTES

Attribute	Active	Required	Options	Desc	Value
Select Attribute	<input type="checkbox"/>	<input type="checkbox"/>			

The attribute elements under 'PROJECT ATTRIBUTES' become Project Metadata and Event Metadata with the event type of 'ProjectRegistration'. Add new attributes (names are comma(,) separated) with data type (float, integer, date, string, url and file) from the select box, and attribute select box will be updated with newly loaded attribute in the tabular form.

- Active : flag that triggers the attribute. Non-active attribute will be hidden in Event Loader and data navigation.
- Required : flag that tells the attribute is required for the event. Non-required means the attribute is optional.
- Options: semi-colon separated allowed values. This will be converted to a select box in Event Loader.
- Desc : attribute description.
- Value: actual value for the attribute.

EVENT METADATA SETUP



The next thing user has to do after loading new project is configuring events with its metadata. At that point a project should already have 'ProjectRegistration' event available, since the application records the loading process as an event to the project itself. 'Add Event Meta Attribute' will be activated once a project is selected in 'Project' box. Selecting a project will display all event types with their attributes(metadata) grouped with its event type. Event select box below the project select box will have existing event types for the current project, and selecting an event type will filter the meta attribute list by the selected event type. Event types are shared within the application, which means that different projects share the same names for event types. User can add new event types (comma separated) using 'New Event Type'.

EVENT METADATA SETUP(CONT)

Event Type	Attribute	Label	Active	Required	Sample Required	Options	Desc	Ontology	Project Metadata	Sample Metadata
ProjectRegistration	Project Status		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Completed;Ongoing;Cancelled		Search Ontology Terms	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SampleRegistration	SampleDescription		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			Search Ontology Terms	<input type="checkbox"/>	<input checked="" type="checkbox"/>

All attributes with its event type will be displayed in the main table area, and attributes get grouped by the event types.

- Label : custom attribute name to be displayed for Event Loader and Event Report
- Required : flag for mandatory validation check for empty values
- Sample Required : flag for sample attribute (Attribute must be paired with a sample for inserting and updating)
- Options : semi-colon separated allowed values that will be converted to a select box in Event Loader
- Ontology : search and assign an ontology (details below)

Event Type	Attribute	Label	Active	Required	Sample Required	Options	Desc	Ontology	Project Metadata	Sample Metadata
ProjectRegistration	Project Status		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Completed;Ongoing;Cancelled		Search Ontology Terms	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Add Attribute	Select Attribute		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			Search Ontology Terms	<input type="checkbox"/>	<input type="checkbox"/>

'Add Attribute' button under an event name will add new attribute to the event type group and highlight the row with light blue for the better visibility. Hovering any part of table rows will also highlight the current row in brighter blue.

Setup Event		Add Event Meta Attribute		New Event Type		New Attribute		Ontology		Clear				
Event Type		Attribute		Label		Active	Required	Sample Required	Options		Desc	Ontology	Project Metadata	Sample Metadata
ProjectRegistration Add Attribute		Project Status				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Completed;Ongoing;Cancelled			Search Ontology Terms	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Select Attribute				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				Search Ontology Terms	<input type="checkbox"/>	<input type="checkbox"/>
Select Event		Select Attribute				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				Search Ontology Terms	<input type="checkbox"/>	<input type="checkbox"/>

User can add new event type using 'Add Event Meta Attribute' button at the bottom. Newly added attributes don't get grouped by their event type. If user needs 2 or more attributes for the new event type, the user should use the same button to do so.

Any empty rows will be considered as null values, and it will not be inserted into the database. (if no event type and attribute name selected)

EVENT METADATA SETUP(CONT)

Ontology

test

test

test

Human Disease - embryonal testis carcinoma (DOID:5680)

NEWT UniProt Taxonomy Database - Testudo denticulata (101697)

Environmental Ontology - testosterone enriched soil (ENVO:00003089)

NEWT UniProt Taxonomy Database - Testudo horsfieldii (101699)

Foundational Model of Anatomy Ontology - Septum of right testis (FMA:19839)

Desc	Ontology
[embryonal testis carcinoma]	DOID:5680

The ontology textbox will search any terms (at least 3 character to trigger the search) from OLS, then display the result as an autocomplete box. Search result will show the actual term with its ontology and term ID. Ontology search usually returns a relatively large result set, so users are advised to use more descriptive search terms for the better search results.

Selecting a term from the search result will automatically update the attribute description with actual term and the ontology text field with term ID. If there is already attribute description inserted by user, square bracket ('[', ']') wrapped term will be appended to the end of the description.

Setup Event **Add Event Meta Attribute** **New Event Type** **New Attribute** **Ontology** **Clear**

Ontology button will open OLS website popup.

Project Metadata	Sample Metadata
<input checked="" type="checkbox"/>	<input type="checkbox"/>

There are 2 select boxes at the end of each row, one for Project Metadata and the other for Sample Metadata. Selecting one of these boxes will register current metadata as corresponding object's metadata. For example, checking on 'Project Metadata' will insert the meta attribute to project metadata group for the current project.

PROJET METADATA SETUP

Admin Project Event

Project Setup

Project Metadata Setup

Sample Metadata Setup

Event Metadata Setup

Project TEST101

PROJECT META ATTRIBUTES

Attribute	Label	Active	Required	Options	Desc	Ontology
Project Status		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Completed;Ongoing;Cancelled		Search Ontology Terms

Setup Project Add Project Meta Attribute Ontology Clear

Project Metadata Setup menu can configure or update new or existing project meta attributes. [New attribute creation is prohibited from this page, since attributes that are already configured in Event Metadata Setup are available in the Attribute select boxes.](#) **Project and Sample Metadata are different from Event Metadata.** Attributes for 'ProjectRegistration' event type only record data for the event, which means they will not be considered as project data but event data. Project Metadata are data fields that define attributes of a project. Loading a project level event will update Project Metadata values, if and only if those metadata appear in both Project Metadata and Event Metadata for the event type.

SAMPLE METADATA SETUP

Admin Project Event

- Project Setup
- Project Metadata Setup
- Sample Metadata Setup**
- Event Metadata Setup

Project

SAMPLE META ATTRIBUTES

Attribute	Label	Active	Required	Options	Desc	Ontology
<input type="text" value="SampleDescription"/>	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="Search Ontology Terms"/>

Setup Sample **Add Sample Meta Attribute** **Ontology** **Clear**

The same rules apply to Sample Metadata Setup as do in Project Metadata Setup. 'SampleUpdate' event will not update sample attributes unless the same meta attributes have been configured in Sample Metadata Setup. Core data for a project or sample should only be metadata for that object.

LOAD EVENT

The screenshot shows the 'Load Event' interface. A red box highlights the 'Load Event' button under the 'Project Events' header. A red arrow points from this button to the 'Load Type' section. The 'Load Type' section has three radio buttons: 'Form' (selected), 'Grid', and 'File'. Below this are three dropdown menus for 'Project', 'Event', and 'Sample'. Red arrows point from these dropdowns to three output boxes on the right. The top output box, labeled 'Test10', contains a list: 'TEST100', 'TEST100-P1', 'TEST100-P2', and 'TEST101'. The middle output box contains a list: 'ProjectRegistration', 'SampleRegistration', and 'ProjectUpdate'. The bottom output box, labeled 'TEST101_S1', contains a single entry. Below the dropdowns is the 'EVENT ATTRIBUTES' section, which includes a 'Required Fields=' label with a green checkmark and three buttons: 'Submit Event', 'Download Template', and 'Clear'.

“Load Event” is the core functionality of O-META. Users can load events that are configured through Event Metadata Setup. Event Loader not only records events but also loads new samples and projects (details later). It can load single event and also supports batch load with “Grid” format. Users can download a template from Event Loader that is CSV file with headers including meta attributes. Data loaded template file can be uploaded directly to Event Loader, then it will curate the data into “Grid” format for validation and editing by the user. Users are enforced to select a sample for sample events such as “SampleUpdate”, “SRA”, and etc.

LOAD EVENT- LOAD TYPE

Load Type ☒ Form ☐ Grid ☐ File

Project

Event

Sample

EVENT ATTRIBUTES Required Fields= ✓

ProjectStatus ⓘ ✓

ProjectID ⓘ ✓

End Date ⓘ ✓

Load Type ☐ Form ☒ Grid ☐ File

Project

Event

EVENT ATTRIBUTES Required Fields= ✓

ProjectStatus ✓	ProjectID ✓	End Date ✓
<input type="text" value="Completed"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="Completed"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="Completed"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="Completed"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="Completed"/>	<input type="text"/>	<input type="text"/>

Load Type ☐ Form ☐ Grid ☒ File

Project

Event

EVENT ATTRIBUTES Required Fields= ✓

Loader CSV File No file chosen

Users can switch between different load types by selecting one of radio buttons for “Load Type”. “Form”, which is the default, is for single event load, and “Grid” is for multi-event load for **single event type**. “Grid” generates 5 event rows as the default, but it ignores any empty unused rows in the load process. “File” load type is for uploading data loaded CSV file directly to Event Loader. Template files can be downloaded using “Download Template” button after selecting Project and Event. Uploading data with a file will not load actual data to the database, but it will display the data to “Grid” view to allow the user to validate and edit the data. Green check box ✓ next to input fields and table headers mean that the attributes are required fields, so that the user must provide values. Hovering over ⓘ icon next to attribute name in “Form” view or table header in “Grid” view displays the description of the attribute as tooltip. The attribute description can be added or modified by Admin users in Project/Sample/Event Metadata Setup.

LOAD EVENT - SAMPLE

Load Type ☒ Form ☐ Grid ☐ File

Project

Event

Sample

SAMPLE INFORMATION

Sample Name

Parent Sample

Public

EVENT ATTRIBUTES

Required Fields= ☒

SampleDescription ☒

Load Type ☐ Form ☒ Grid ☐ File

Project

Event

EVENT ATTRIBUTES

Required Fields= ☒

Sample Name	Parent Sample	Public	SampleDescription <input checked="" type="checkbox"/>
TEST101_SAMPLE1	<input type="text"/>	<input type="text" value="Yes"/>	sample1 for TEST101
<input type="text"/>	<input type="text"/>	<input type="text" value="Yes"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text" value="Yes"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text" value="Yes"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text" value="Yes"/>	<input type="text"/>

Users can load samples using Event Loader by selecting “SampleRegistration” event type for a project. It is also possible to load multiple samples using “Grid” load type or file upload (detail below). Admin users must configure “SampleRegistration” event with Event Metadata Setup to allow users to load new samples through Event Loader. Users can build a tree structure of samples by selecting any samples under the current project as a parent sample.

LOAD EVENT - PROJECT

Load Type ☒ Form ☐ Grid ☐ File

Project

Event

Sample

PROJECT INFORMATION

Project Name

Public

EVENT ATTRIBUTES Required Fields= ☒

Project Status

Submit Event

Download Template

Clear

Load Type ☐ Form ☒ Grid ☐ File

Project

Event

EVENT ATTRIBUTES Required Fields= ☒

Project Name	Public	Project Status
TEST101_CHILD1	Yes	Completed
	Yes	Completed
	Yes	Completed
	Yes	Completed
	Yes	Completed

Submit Event

Add Event Line

Download Template

Clear

Users can also load child projects to the current project using Event Loader, but it is not allowed to load a root project with Event Loader. Root project (top level project) can only be loaded by admin users. Event Loader will consider the projects loaded with Event Loader as direct children of the current project select in the “Project” select box. Newly loaded child projects inherit all (project, sample, event) metadata setups, so that users don’t need to configure them again, but users can still modify individual project metadata setups later. “Grid” and file upload support multiple projects load with a single transaction as well.

LOAD EVENT – DOWNLOAD TEMPLATE

Load Type ☐ Form ☐ Grid ☒ File

Project
Event

EVENT ATTRIBUTES Required Fields= ☒

Loader CSV File No file chosen

Save As:

Where:

```
1 "ProjectName","ProjectStatus","ProjectID","End Date"
2 "#string *Required", "#string *Required [Completed;Ongoing;Cancelled]", "#string *Required", "#date *Required"
3 "TEST101"
```

CSV template files can be downloaded after selecting Project and Event. The file name will be "{EventName}_EventAttributes.csv". The template file has 3 sections, attribute name headers, information, and data. Headers will basically have "ProjectName", "SampleName" (not included for project events), and meta attributes. Information section tells the user the data type of a field and whether it is a required field or not. Moreover, it shows allowed values wrapped with square brackets that users are only allowed to use one of the allowed values. Since Event Loader allows users to load single event type for a transaction, it is possible to load multiple events of an event type with a template file. The user just needs to add multiple event lines to the template before uploading it.

LOAD EVENT – FILE (ONE)

<ProjectUpdate_EventAttributes.csv>

```
1 "ProjectName","ProjectStatus","ProjectID","End Date"
2 "#string *Required","#string *Required [Completed;Ongoing;Cancelled]","#string *Required","#date *Required"
3 "TEST101","Completed", "TESTID1", "2013-06-14"
```

Loader CSV File **Choose File** No file chosen

Load Type ☐ Form ☐ Grid ☒ File

Project TEST101

Event ProjectUpdate

Load Type ☐ Form ☒ Grid ☐ File

Project TEST101

Event ProjectUpdate

EVENT ATTRIBUTES Required Fields= ☒

Loader CSV File **Choose File** ProjectUpdate...tributes.csv

Submit Event

Download Template

Clear

EVENT ATTRIBUTES Required Fields= ☒

ProjectStatus <input checked="" type="checkbox"/>	ProjectID <input checked="" type="checkbox"/>	End Date <input checked="" type="checkbox"/>
Completed <input type="button" value="v"/>	TESTID1	2013-06-14 <input type="button" value="v"/>
Completed <input type="button" value="v"/>		<input type="button" value="v"/>
Completed <input type="button" value="v"/>		<input type="button" value="v"/>
Completed <input type="button" value="v"/>		<input type="button" value="v"/>
Completed <input type="button" value="v"/>		<input type="button" value="v"/>

Submit Event

Add Event Line

Download Template

Clear

Event Loader consumes CSV data file then converts the data into "Grid". At this point, the user can modify the data from CSV file or add more data on the fly. The CSV file upload is for SINGLE PROJECT AND SINGLE EVENT TYPE. Users CANNOT include 2 projects or different event types to a CSV file.

LOAD EVENT – FILE (MULTI)

Loading multiple samples by uploading a CSV data file to Event Loader. This load also records “SampleRegistration” event for each new sample.

```
1 "ProjectName","SampleName","ParentSample","Public","SampleDescription"
2 "#string *Required"."#string *Required"."#string Optional", "#int *Required", "#string *Required"
3 "TEST101","TEST101_SAMPLE1","",1,"sample1 for TEST101"
4 "TEST101","TEST101_SAMPLE2","",1,"sample3 for TEST101"
5 "TEST101","TEST101_SAMPLE3","",0,"sample4 for TEST101"
```

Load Type ☐ Form ☒ Grid ☐ File

Project

Event

EVENT ATTRIBUTES Required Fields= ☒

Sample Name	Parent Sample	Public	SampleDescription <input checked="" type="checkbox"/>
TEST101_SAMPLE1	<input type="text"/>	<input type="text" value="Yes"/>	sample1 for TEST101
TEST101_SAMPLE2	<input type="text"/>	<input type="text" value="Yes"/>	sample3 for TEST101
TEST101_SAMPLE3	<input type="text"/>	<input type="text" value="No"/>	sample4 for TEST101
<input type="text"/>	<input type="text"/>	<input type="text" value="Yes"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text" value="Yes"/>	<input type="text"/>

EVENT DETAIL

Report

Event Detail

Event Report

Project

Sample

PROJECT DETAILS

Edit Project

SAMPLE DETAILS

EVENT DETAILS

Test10

TEST100

TEST100-P1

TEST100-P2

TEST101

Project

Sample

PROJECT DETAILS

Project Status	Ongoing
Project Name	TEST101
Project Registration	2013-06-12

Edit Project

SAMPLE DETAILS

EVENT DETAILS

Users can track all events in the database using Event Detail menu. It allows users not only to track events but also to view details of a project and samples of a project. Users can also edit project and sample attribute values within the page. Selecting a project will display project information and its attribute with values, and it also activate “Edit Project” button in the PROJECT DETAILS section for in-page editing.

EVENT DETAIL - SAMPLE

SAMPLE DETAILS

Show 10 entries Search: []

Sample Name	Parent	User	Date
TEST101_S1 EDIT		Kim, Hyunsoo	2013-06-14 11:58
TEST101_SAMPLE1 EDIT		Kim, Hyunsoo	2013-06-14 16:09
TEST101_SAMPLE2 EDIT		Kim, Hyunsoo	2013-06-14 16:09
TEST101_SAMPLE3 EDIT		Kim, Hyunsoo	2013-06-14 16:09

Showing 1 to 4 of 4 entries First Previous 1 Next Last

TEST101_S1 EDIT

SampleDescription

sample1 for TEST101

Green “+” button next “SAMPLE DETAILS” header triggers the list of samples for the current project selected. Samples are displayed in ascending order by sample names, but users can sort the list by clicking one of headers. Users can also change the number of the list element by changing the value in “Show ... entries”. It provides search capability that user can search any sample information, attribute name, or attribute value. The first field of each row has green “+” icon that triggers in-row detail of a sample. The in-row detail displays all attributes, which are configured in “Sample Metadata Setup”, with values.

EVENT DETAIL – SAMPLE(CONT)

Project: TEST101
Sample: TEST101_SAMPLE1

PROJECT DETAILS

Project Status	Ongoing
Project Name	TEST101
Project Registration	2013-06-12

[Edit Project](#)

SAMPLE DETAILS

Show 10 entries Search:

Sample Name	Parent	User	Date
TEST101_SAMPLE1 EDIT		Kim, Hyunsoo	2013-06-14 16:09

Showing 1 to 1 of 1 entries

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)

EVENT DETAILS

Date Range: ~

Show 10 entries Search:


Event Type	Sample Name	Date	User	Status
SampleRegistration	TEST101_SAMPLE1	2013-06-14 16:09	Kim, Hyunsoo	Active ✖



Showing 1 to 1 of 1 entries

[First](#) [Previous](#) [1](#) [Next](#) [Last](#)












There is Sample select box just under the Project select box that will have the list of samples of current project. Users can filter the information in SAMPLE DETAILS and EVENT DETAILS by selecting a sample. SAMPLE DETAILS will only display selected sample, and EVENT DETAILS will display events that are associated with selected sample. Users can always switch to the list that has all samples by selecting “All..” from the Sample select box.

EVENT DETAIL - EVENT



EVENT DETAILS 

Date Range:  ~ 


Show entries Search:

	Event Type	Sample Name	Date	User	Status
	ProjectRegistration		2013-06-12 13:08	Kim, Hyunsoo	Active 
	SampleRegistration	TEST101_S1	2013-06-14 11:58	Kim, Hyunsoo	Active 
	SampleRegistration	TEST101_SAMPLE1	2013-06-14 16:09	Kim, Hyunsoo	Active 
	SampleRegistration	TEST101_SAMPLE2	2013-06-14 16:09	Kim, Hyunsoo	Active 
	SampleRegistration	TEST101_SAMPLE3	2013-06-14 16:09	Kim, Hyunsoo	Active 

Showing 1 to 5 of 5 entries First Previous 1 Next Last

	SampleRegistration	TEST101_S1	2013-06-14 11:58	Kim, Hyunsoo	Active 
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SampleDescription
sample1 for TEST101

Inactive 

EVENT DETAILS works the same as SAMPLE DETAILS, but it has additional filtering option that is “Date Range”. After user selects a project, all events that are associated with the project will be displayed in the EVENT DETAILS section. The Status field shows whether an event is active or not. Inactive events are hidden from Event Report. Simple one click on red “X” or green check mark will switch event’s inactivity.

EVENT DETAIL – EVENT(CONT)

Date Range: 2013-06-14 ~ 2013-06-14

Show 10 entries Search:

Event Type	Sample Name	Date	User	Status
SampleRegistration	TEST101_S1	2013-06-14 11:58	Kim, Hyunsoo	Active ✖
SampleRegistration	TEST101_SAMPLE1	2013-06-14 16:09	Kim, Hyunsoo	Active ✖
SampleRegistration	TEST101_SAMPLE2	2013-06-14 16:09	Kim, Hyunsoo	Active ✖
SampleRegistration	TEST101_SAMPLE3	2013-06-14 16:09	Kim, Hyunsoo	Active ✖

Showing 1 to 4 of 4 entries

First Previous 1 Next Last

Show 10 entries Search: TEST101_SAMPLE2

Event Type	Sample Name	Date	User	Status
SampleRegistration	TEST101_SAMPLE2	2013-06-14 16:09	Kim, Hyunsoo	Active ✖

Showing 1 to 1 of 1 entries

First Previous 1 Next Last

For the date filtering, users can either set start date only, end date only, or both. Deleting values from date filter fields will display the complete event list. Search gets triggered by enter key. Hitting enter after removing the value from search box will bring the original list back to the table.

EVENT DETAIL - EDITING

Edit Project

↓

Edit Project Detail Close

Project
Public ↓
Secure ↓
Project Update

Project Attribute
Project Status
Attribute Update

TEST101_S1 **EDIT**

↓

Edit Sample Detail Close

Sample
Public ↓
Sample Update




Sample Attribute
SampleDescription
Attribute Update

Users can edit Project/Sample access flags and attribute values using in-page editing functionality. The page will reload to reflect any modifications.

EVENT REPORT

Report

Event Detail**Event Report**

Project 
Date Range  ~ 

ATTRIBUTES

Project	
Sample	
Event	


Generate Status Page**Clear**



Test10

TEST100**TEST100-P1****TEST100-P2****TEST101**

Users can easily generate event reports using Event Report menu from O-META. The report will display every sample of a project with attribute values in a tabular form. It also has date range filter that will only retrieve event data between the date range.

EVENT REPORT(CONT)

Project **TEST101** 

Date Range  ~ 

ATTRIBUTES

Project	<input checked="" type="checkbox"/> Project Name <input checked="" type="checkbox"/> ProjectStatus <input checked="" type="checkbox"/> Project Status <input checked="" type="checkbox"/> ProjectID <input checked="" type="checkbox"/> Select All
Sample	<input checked="" type="checkbox"/> Sample Name <input checked="" type="checkbox"/> Parent Sample <input checked="" type="checkbox"/> SampleDescription <input checked="" type="checkbox"/> Select All
Event	<input checked="" type="checkbox"/> sra accession <input checked="" type="checkbox"/> Select All

Generate Status Page **Clear**

Project Status

An Excel version of this data is also available for download [here](#).

—Show / Hide Columns—

CSV Excel PDF Copy Select all Deselect all Show **10** entries Search:

Project Name	ProjectStatus	Project Status	ProjectID	Sample Name	Parent Sample	SampleDescription	sra accession
TEST101		Ongoing		TEST101_S1		sample1 for TEST101__	
TEST101		Ongoing		TEST101_SAMPLE1		sample1 for TEST101	
TEST101		Ongoing		TEST101_SAMPLE2		sample3 for TEST101	
TEST101		Ongoing		TEST101_SAMPLE3		sample4 for TEST101	

Showing 1 to 4 of 4 entries

First **Previous** **1** **Next** **Last**

The ATTRIBUTES section will display Project/Sample/Event meta attributes as user selects a project. “Select All” buttons in each object level will check all meta attribute at the level. After checking all or some of attributes, “Generate Status Page” button will actually generate a status report for the current project. The report will be tabular form, and each row represents individual sample. If multiple events exist for an event type, the most recent event data will be displayed in the report.

O-META Help



[Help](#) | [Register](#) | [Log in](#)

[Project Events](#)

[Report](#)

O-META

HELP

Name

Email

Description

Users can send a question or help request through Help menu that sends an email to the system administrator.