

Data Comparison Module

Primary mentor	Daniel Kayiwa
Backup mentor	Suranga Kasthurirathne
Assigned to	Bhashitha Wijewardhane

Abstract

There is a need for a new module, which will allow the user to compare for example an old and a modified concept. The module should accept two objects and display views of them next to each other highlighting differences in fields. It will be used by the [Metadata Sharing Module](#) to compare existing with incoming metadata and produce nice import reports (what actually changed). It could be also used to compare patients when resolving duplicate entries.

Project Champions

Objectives

1. Create a new module following [Creating Modules](#) (improve the documentation if needed)
2. Apply for a repository at <https://github.com/openmrs> and a JIRA project
3. Create tickets in JIRA for tasks to be completed during GSoC
4. Create UI mockups of the comparison view
5. Prepare a simple comparison view of basic fields like String, Data, Boolean, etc.
6. Expand the view to include related objects e.g. comparing Concepts we need to be able to compare related ConceptClass or ConceptDatatype (it can be a tree like view developed with the use of javascript)
7. Expand the view to include collections of related objects e.g. comparing Concepts we need to be able to compare related ConceptNames (same names will need to be displayed next to each other)
8. Embed the comparison view in the Metadata Sharing Module assessment page

Metadata Sharing

Import package

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Type: **Concept**

Incoming Item	Existing Item
Name: PEDIATRIC NEONATAL WARD	Name: PEDIATRIC NEONATAL WARD
Description: Ward for newborn infants or an infant: neonatal care	Description: Ward for newborn infants or an infant: neonatal care
UUID: 07efb906-11df-4e31-93a6-f8bd6d1c9561	UUID: 07efb906-11df-4e31-93a6-f8bd6d1c9561
Date modified: Wed Apr 13 00:25:28 CEST 2011	Date modified: 2011-07-07 12:19:46.0
Datatype: N/A	Datatype: N/A

You already have this item.

Keep Mine
Leave your existing item unchanged.

Overwrite
Overwrite your existing item with the incoming one.

[Next](#)

9. Create a wiki page for the module

Extra Credit

1. Load related objects only when requested with AJAX
2. Create an import report page for the Metadata Sharing Module, which uses the comparison view

Resources

1. [Metadata Sharing Module](#)

UI Mockups

Following mockups shows the suggested UI for the metadata object comparison view. The objects used for the mockups are only for the demonstration purpose and may not be the real metadata objects.

1. Simple object comparison view for similar objects.

Existing Item	Incoming Item
<ul style="list-style-type: none"> <input type="checkbox"/> name : PEDIATRIC NEONATAL WARD <input type="checkbox"/> description : ward for new born infants or an infant: neonatal care <input type="checkbox"/> retired : false <input type="checkbox"/> dateModified : 2011-07-07 12:19:46 	<ul style="list-style-type: none"> <input type="checkbox"/> name : PEDIATRIC NEONATAL WARD <input type="checkbox"/> description : ward for new born infants or an infant: neonatal care <input type="checkbox"/> retired : false <input type="checkbox"/> dateModified : 2011-07-07 12:19:46

2. Comparison view of different objects which have object as properties, collections, and null properties

Existing Item	Incoming Item
<ul style="list-style-type: none"> <input type="checkbox"/> name : PEDIATRIC NEONATAL WARD <input type="checkbox"/> retired : false <input checked="" type="checkbox"/> {} changedBy <ul style="list-style-type: none"> <input type="checkbox"/> username : john <input checked="" type="checkbox"/> roles <ul style="list-style-type: none"> <input type="checkbox"/> 0 : Provider <input type="checkbox"/> proficientLocales : null 	<ul style="list-style-type: none"> <input type="checkbox"/> name : PEDIATRIC NEONATAL WARD <input type="checkbox"/> retired : false <input checked="" type="checkbox"/> {} changedBy <ul style="list-style-type: none"> <input type="checkbox"/> username : jenny <input checked="" type="checkbox"/> roles <ul style="list-style-type: none"> <input type="checkbox"/> 0 : Provider <input type="checkbox"/> 1 : System Developer <input checked="" type="checkbox"/> {} proficientLocales

3. Comparison view of different objects which have collection of objects

Existing Item	Incoming Item
<ul style="list-style-type: none"> <input type="checkbox"/> name : PEDIATRIC NEONATAL WARD <input type="checkbox"/> description : ward for new born infants or an infant: neonatal care <input type="checkbox"/> retired : false <input type="checkbox"/> dateModified : Wed Apr 13 00:12:25 CEST 2011 <input checked="" type="checkbox"/> [] conceptMappings <input checked="" type="checkbox"/> [] conceptAnswer <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 0 <ul style="list-style-type: none"> <input type="checkbox"/> name : REBOUND <input type="checkbox"/> description : ward for new born infants <input checked="" type="checkbox"/> 1 	<ul style="list-style-type: none"> <input type="checkbox"/> name : PEDIATRIC NEONATAL WARD <input type="checkbox"/> description : ward for new born infants or an infant: neonatal care <input type="checkbox"/> retired : false <input type="checkbox"/> dateModified : 2011-07-07 12:19:46 <input checked="" type="checkbox"/> [] conceptMappings <input checked="" type="checkbox"/> [] conceptAnswer <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 0 <ul style="list-style-type: none"> <input type="checkbox"/> name : GUARDING <input type="checkbox"/> description : ward for new born infants <input checked="" type="checkbox"/> 1