# Reusing the NIS ITA Science Library

This document is designed to help take the NIS ITA Science Library and apply it to other data about publications and authors, e.g. for a different research programme. The document will continue to be updated as enhancements to the underlying model and the user interface are made.

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The latest version of this document can be found on the ITA Collaboration (ITACS) website, here -> <https://www.usukitacs.com/science_library>  
Please contact Dave Braines ([dave\_braines@uk.ibm.com](mailto:dave_braines@uk.ibm.com)) if you do not have access to ITACS.

## General information

* Please use **Google Chrome** for the Science Library and the ce-store engineering panel if possible. Other browsers also work but we have only tested these specific instructions in Google Chrome.
* When setting up the ce-store we recommend that you use Tomcat 7 as the web application server and suggest that you stick with the default name “Tomcat v7.0 Server at localhost” when setting it up.
* These instructions assume that you are running on localhost:8080 for both the Science Library and the ce-store engineering panel.
* The following URLs are mentioned throughout the document:
  + Engineering panel - <http://localhost:8080/ce-store/ui/>
  + Science Library - <http://localhost:8080/ScienceLibrary/>
* The live version of the NIS ITA Science Library can be found here -> <http://nis-ita.org>

## Basic ce-store installation

Follow the instructions for installing and testing the open source ce-store -> <https://github.com/ce-store/ce-store/blob/master/README.md>

This includes the installation of the Eclipse development environment and a suitable web application server such as Apache Tomcat.

Verify that the ce-store is working correctly (by using the example “Medicine” model as per the github instructions) and that the “engineering panel” (default user interface) is running at <http://localhost:8080/ce-store/ui/>

Notes:

1. The ce-store uses a number of common 3rd party JS libraries (DOJO, OpenLayers, Proj4js, Google maps and D3). By default these are loaded from existing online locations. If you wish to develop and test whilst disconnected from the network you will need to download local copies of these and edit **ce-store/WebContent/ui/index.html** to point to your local copies instead.

## Installation of Science Library data and user interface

Download the following zip files from the ITA Collaboration Site (ITACS), here -> <https://www.usukitacs.com/science_library>

1. **SL\_static.zip** – this contains example “static” content such as an example paper, the preview image for it and some profile pictures for people.
2. **SL\_data.zip** – this contains the minimal Controlled English (CE) to define a single paper, authors, organisations, events and other supporting data. This is used to prove that the Science Library environment is working correctly.
3. **ScienceLibrary.zip** – This is the generated code (javascript and html) that is the user interface for the science library.
4. **RawScienceLibrary**.zip – This is the full NodeJS codebase for the ScienceLibrary and is used to generate the contents of ScienceLibrary.zip (this is described fully later in these instructions).

Unzip each of these four files into your Eclipse “workspace” folder and then import these projects into your Eclipse environment. The SL\_static, SL\_data and ScienceLibrary projects should then be added to your Tomcat server (using the popup menu for that server, selecting “Add/Remove Projects” and move these three projects from the left side to the right side to add them).

To make it as easy as possible to load the Science Library data, edit the file named **ce-store/WebContent/ui/js/ui/panes/pane-currentprojects.js**

This file determines what links are shown in the “Current Projects” pane in the ce-store engineering panel.

Replace line 47:

{ url: 'ce-store/ce/medicine/cmd/med\_load.cecmd', name: 'Medicine' }

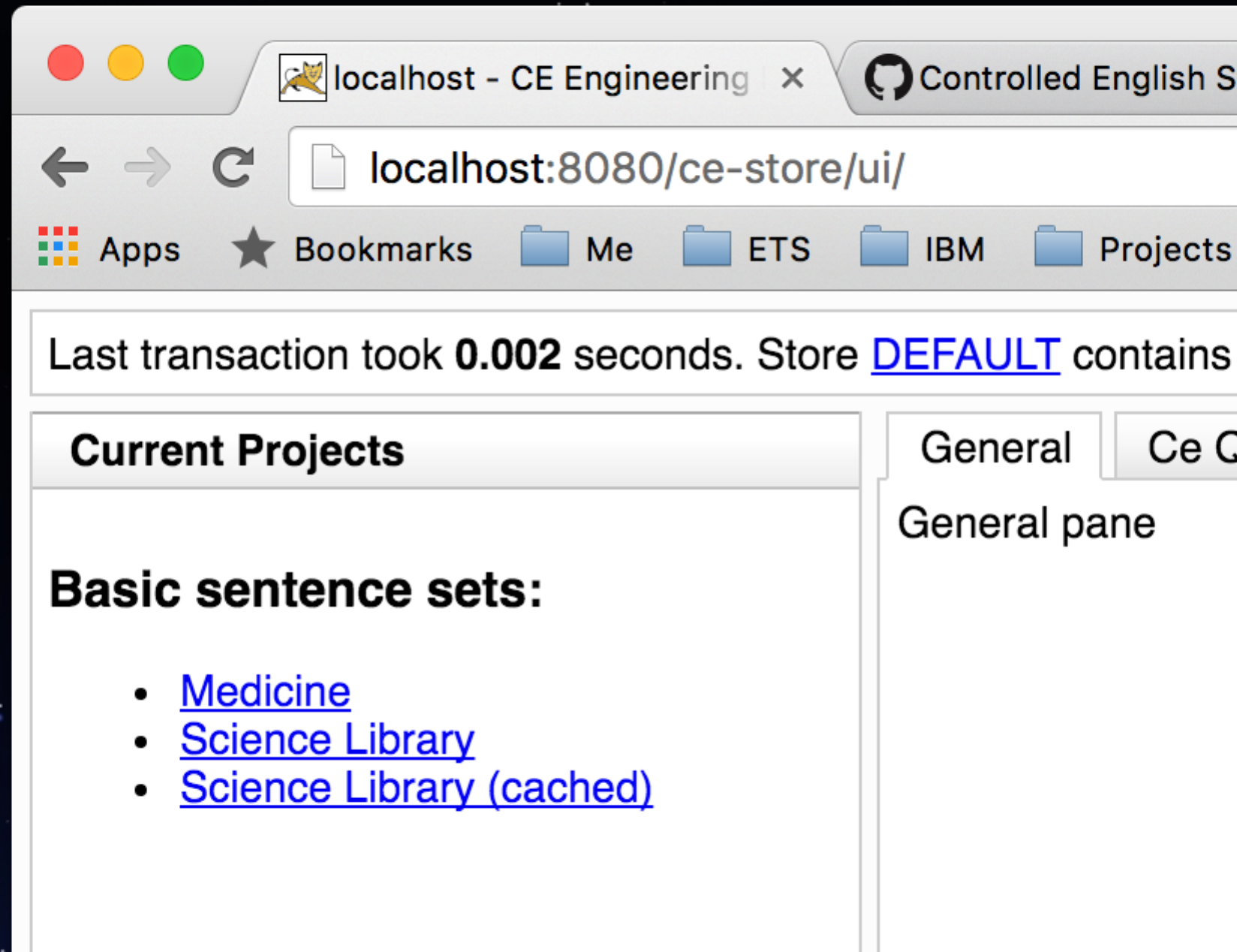
with:

{ url: 'ce-store/ce/medicine/cmd/med\_load.cecmd', name: 'Medicine' },

{ url: 'SL\_data/ce/cmd/load\_live.cecmd', name: 'Science Library' },

{ url: 'SL\_data/ce/cmd/load\_cached.cecmd', name: 'Science Library (cached)' },

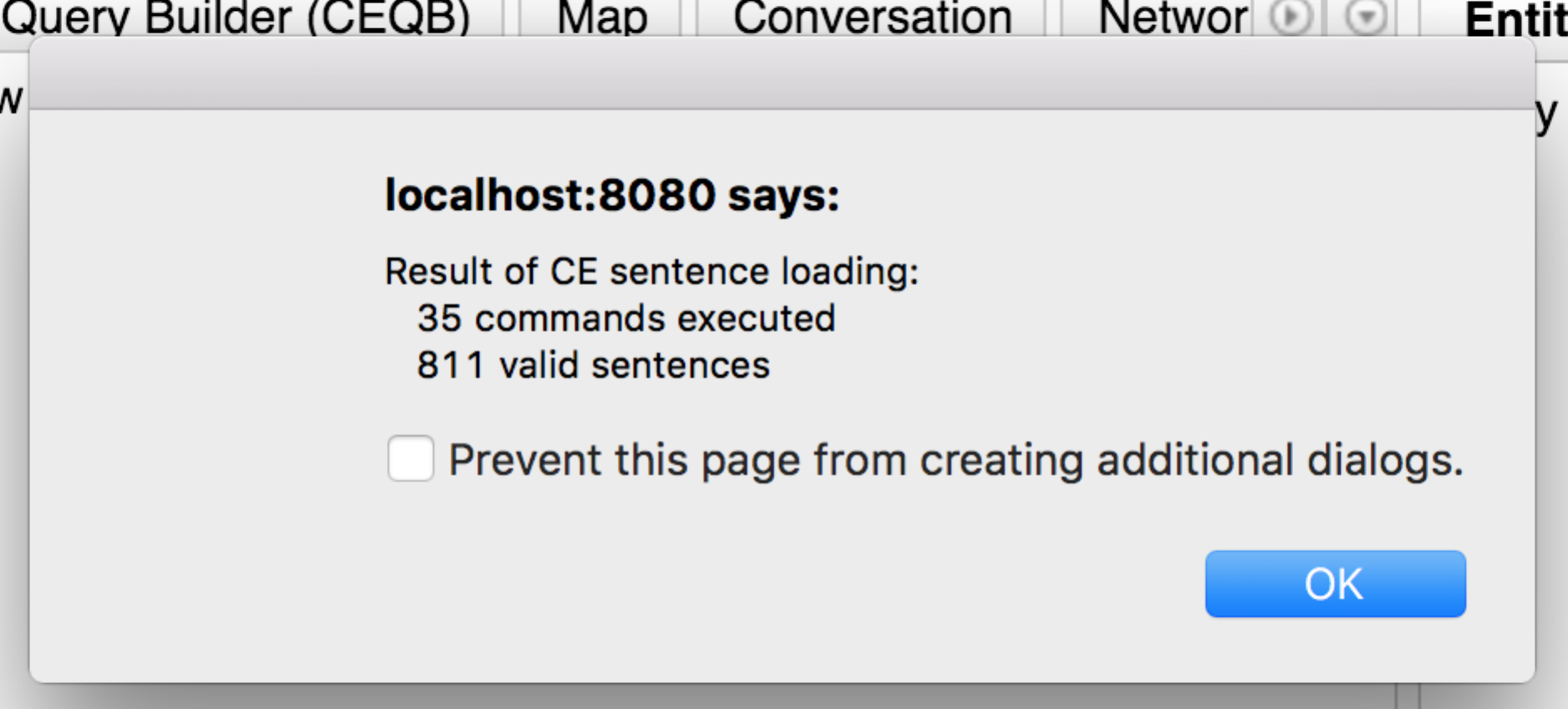
Now refresh the ce-store and the “current projects” pane should look like this:



Clicking on the “Science Library” links will simply execute the relevant CE command file within the “SL\_data” project and therefore load that CE knowledge base into the ce-store.

## Load and test the Science Library

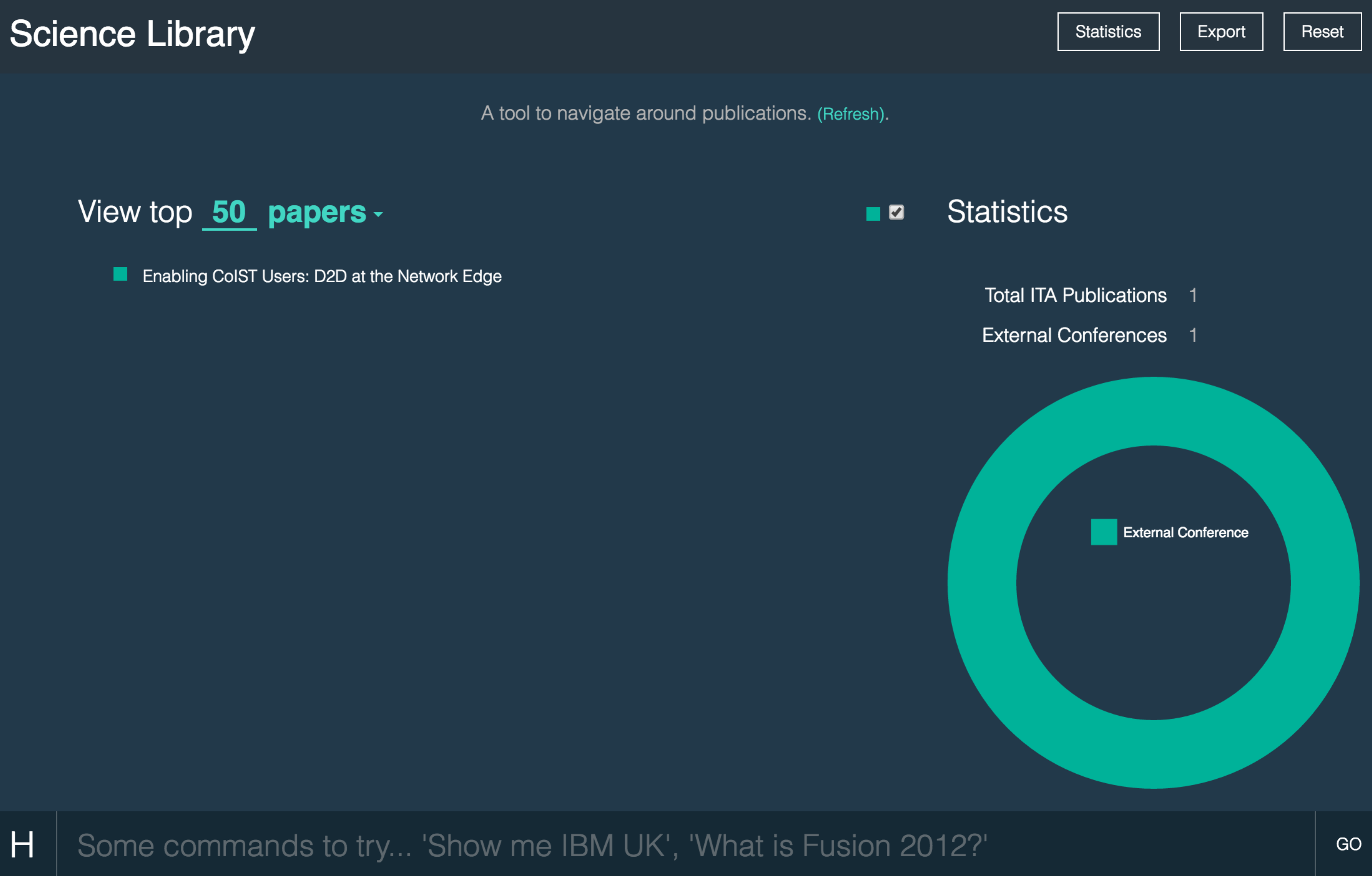
In the ce-store engineering panel click on the “Science Library (cached)” link to load in all of the sample Science Library data. You will be asked to confirm the action, and when you do so you should see a message box like this after a very short pause:



You can now use the ce-store engineering panel to explore the underlying CE data should you wish to. Please refer to the ce-store tutorials on github for an explanation of how to do this.

The main user interface for the Science Library can now be accessed, here -> <http://localhost:8080/ScienceLibrary/>

The home page should look like this:



In the sample data set there is only a single paper, 3 authors, 3 organisations and one event defined.

This document (and the Science Library data and user interface) will be updated prior to the planned meeting at ARL on Weds 20th April. Please check the ITACS page for updates.

Don’t forget about using TomCat 8 for the rewrite valve and placing rewrite.config into WEB-INF.