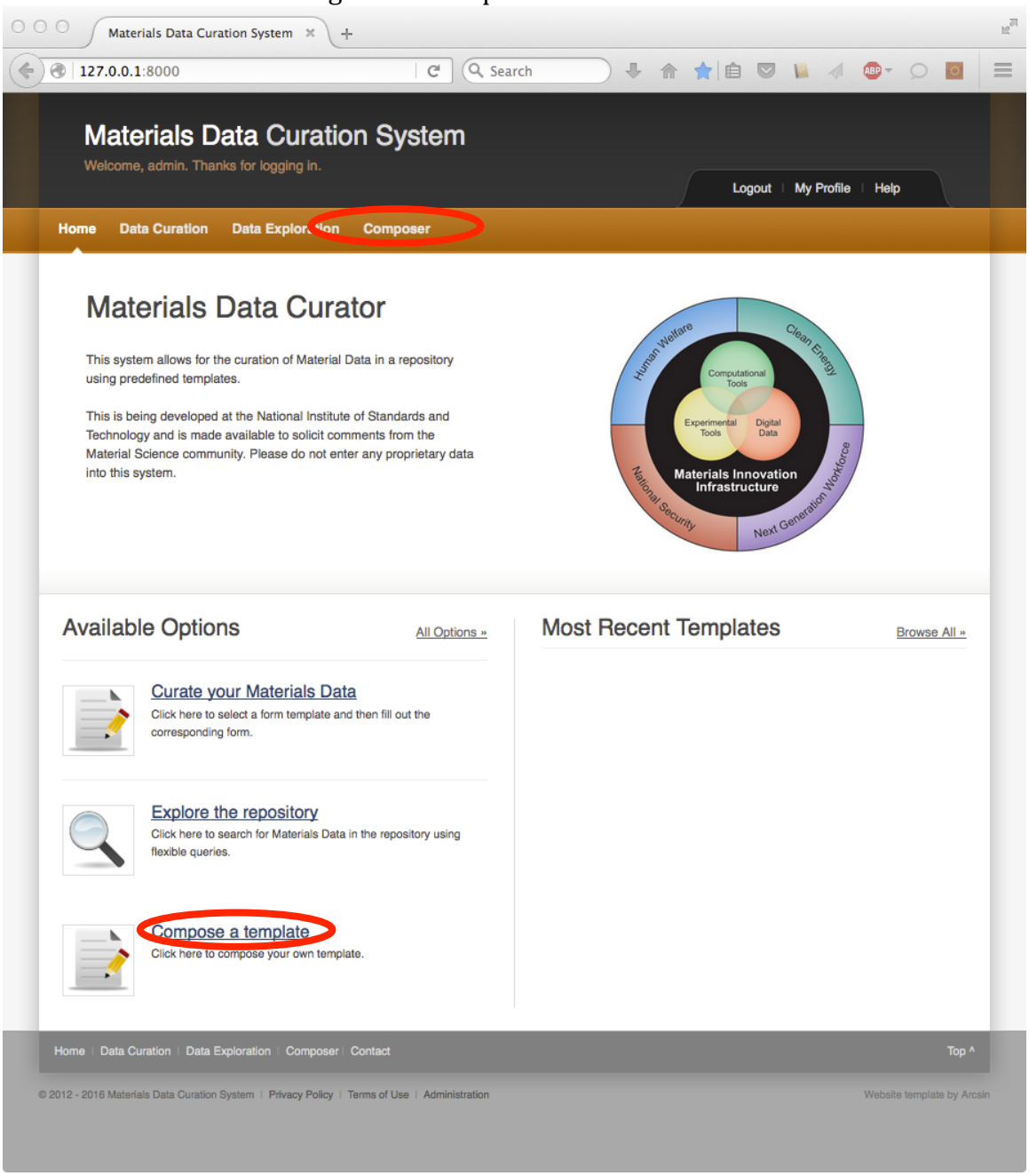
Composer: Simple DiffusionDemo

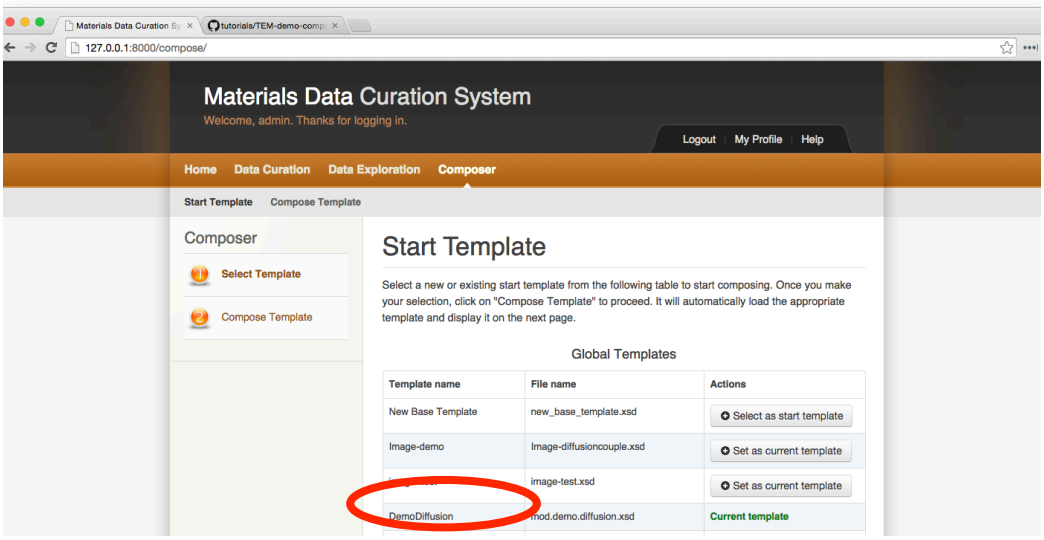
Change an “instanance”

In this example we want to change the schema to allow one to enter multiple phase for a given material.

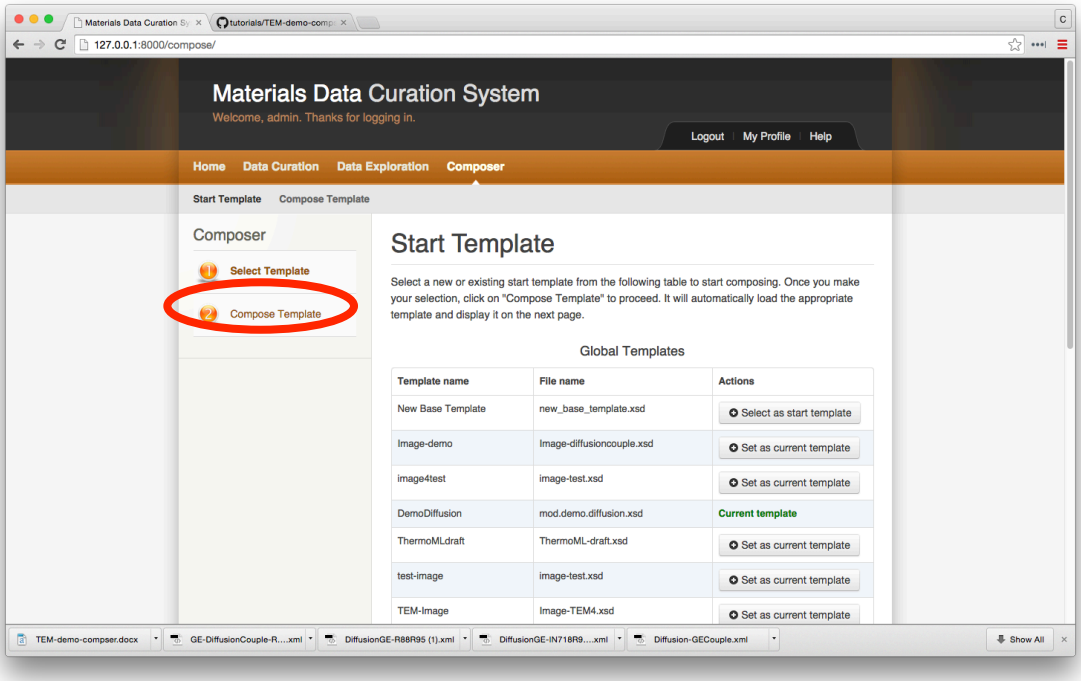
1: At the Home screen navigate to “Composer”

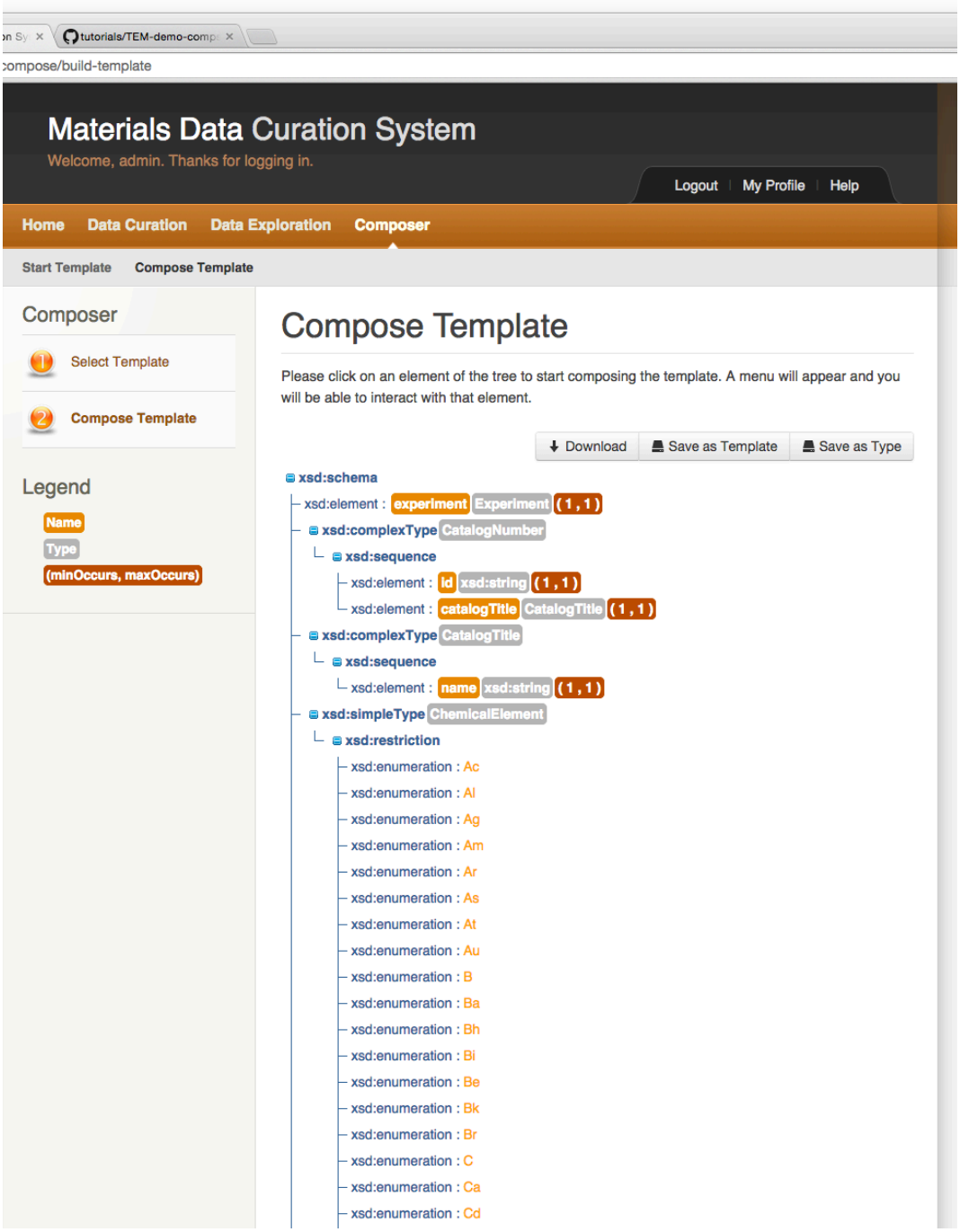


2: Select “DiffusionDemo” Template as the current template



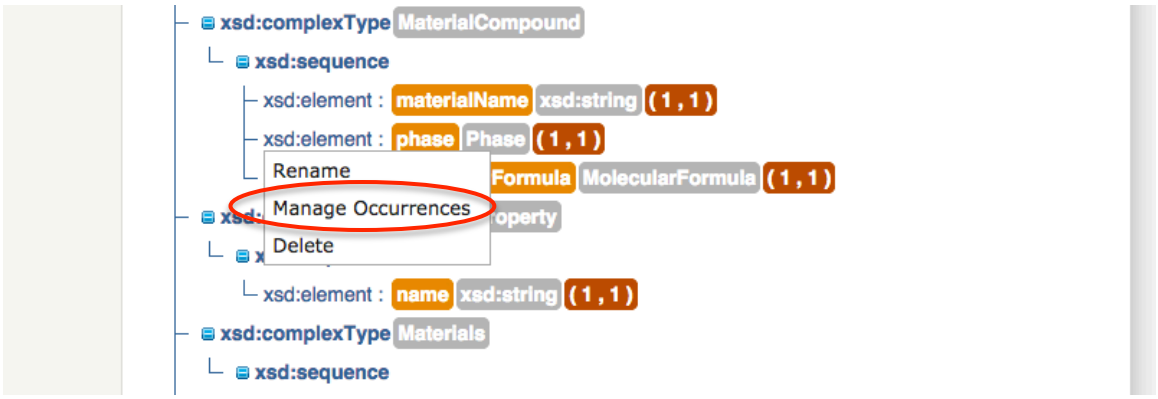
3: Select “Compose Template” on the left-side menu



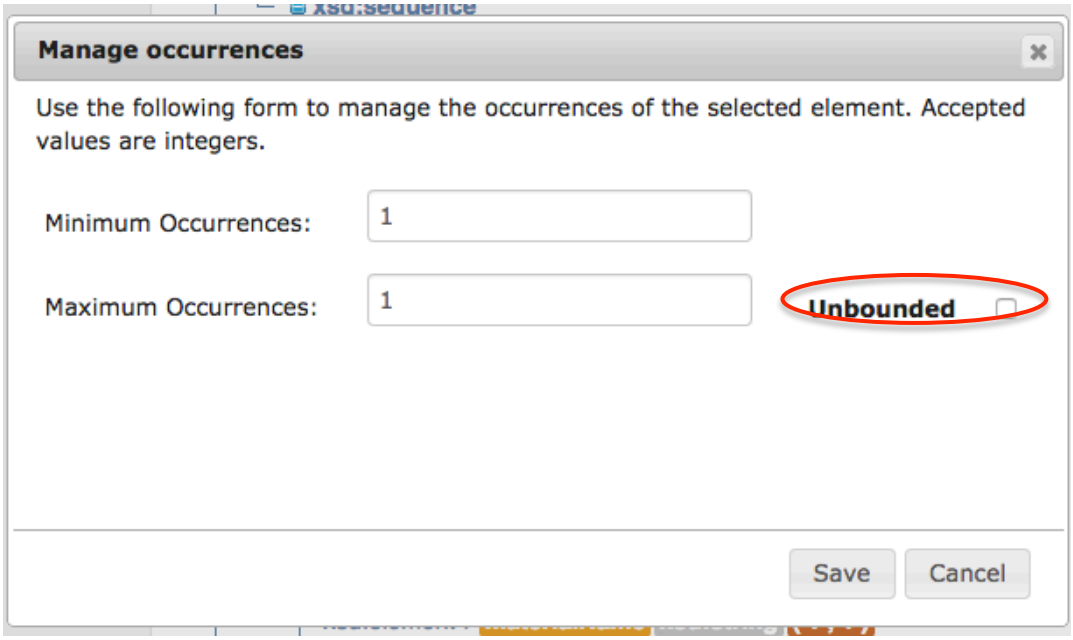

tutorials/TEM-demo-comp
compose/build-template
Materials Data Curation System
Welcome, admin. Thanks for logging in.
Logout | My Profile | Help
Home Data Curation Data Exploration Composer
Start Template Compose Template
Composer
Select Template
Compose Template
Legend
Name
Type
(minOccurs, maxOccurs)
Compose Template
Please click on an element of the tree to start composing the template. A menu will appear and you will be able to interact with that element.
Download
Save as Template
Save as Type
xsd:schema
xsd:element : experiment Experiment (1 , 1)
xsd:complexType CatalogNumber
xsd:sequence
xsd:element : id xsd:string (1 , 1)
xsd:element : catalogTitle CatalogTitle (1 , 1)
xsd:complexType CatalogTitle
xsd:sequence
xsd:element : name xsd:string (1 , 1)
xsd:simpleType ChemicalElement
xsd:restriction
xsd:enumeration : Ac
xsd:enumeration : Al
xsd:enumeration : Ag
xsd:enumeration : Am
xsd:enumeration : Ar
xsd:enumeration : As
xsd:enumeration : At
xsd:enumeration : Au
xsd:enumeration : B
xsd:enumeration : Ba
xsd:enumeration : Bh
xsd:enumeration : Bi
xsd:enumeration : Be
xsd:enumeration : Bk
xsd:enumeration : Br
xsd:enumeration : C
xsd:enumeration : Ca
xsd:enumeration : Cd

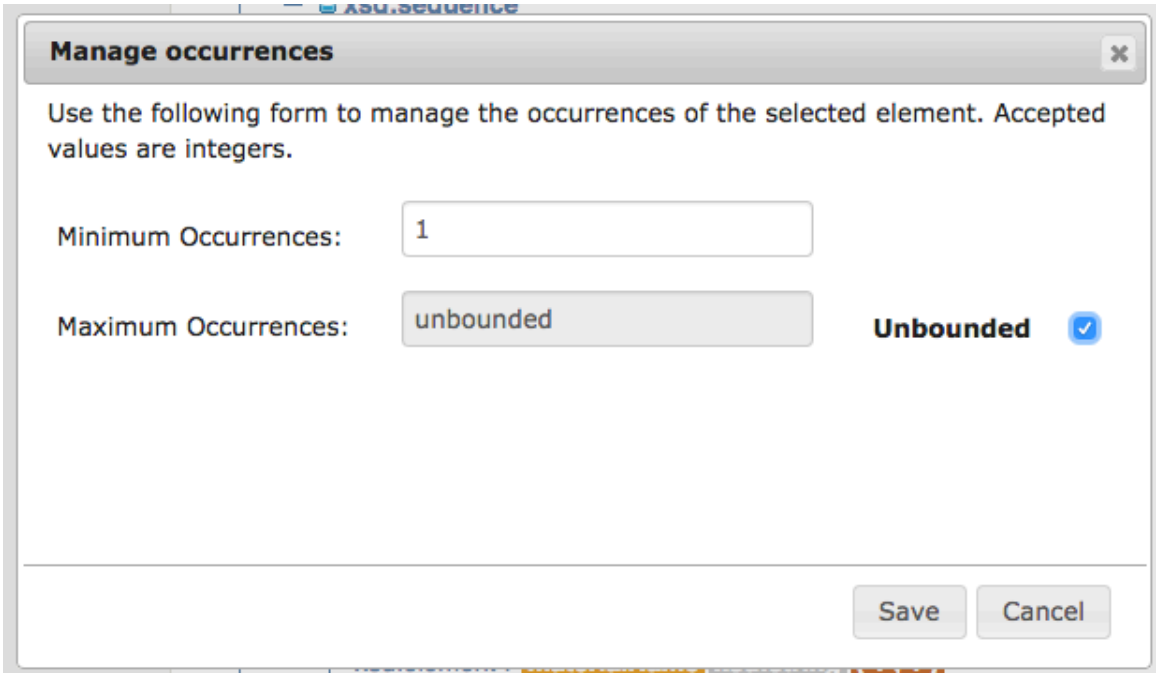
4. Scroll a little more than half way down the schema and find the “element” labelled “phase” and click on the element.

After clicking on “element” a box will appear with 3 choices: Rename, Manage Occurrences, and Delete. Select “Manage Occurrences”

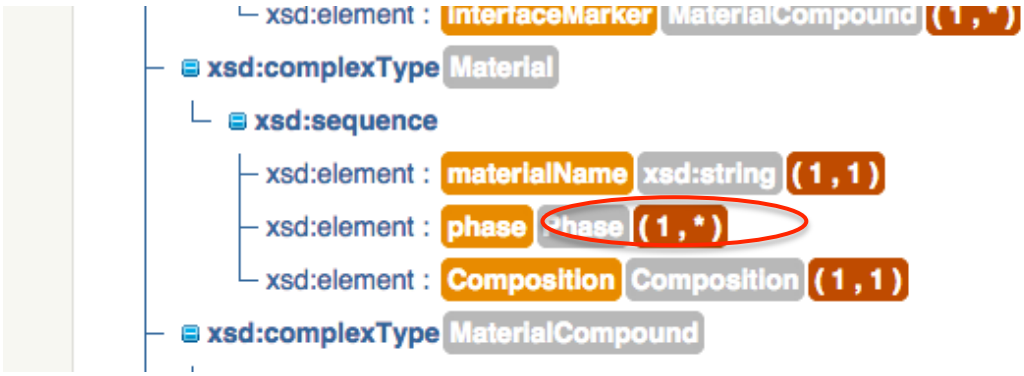


A new pop-up window will appear where you can change the number of occurrences that “phase” is allowed. Change it to “Unbounded” and click “Save”.

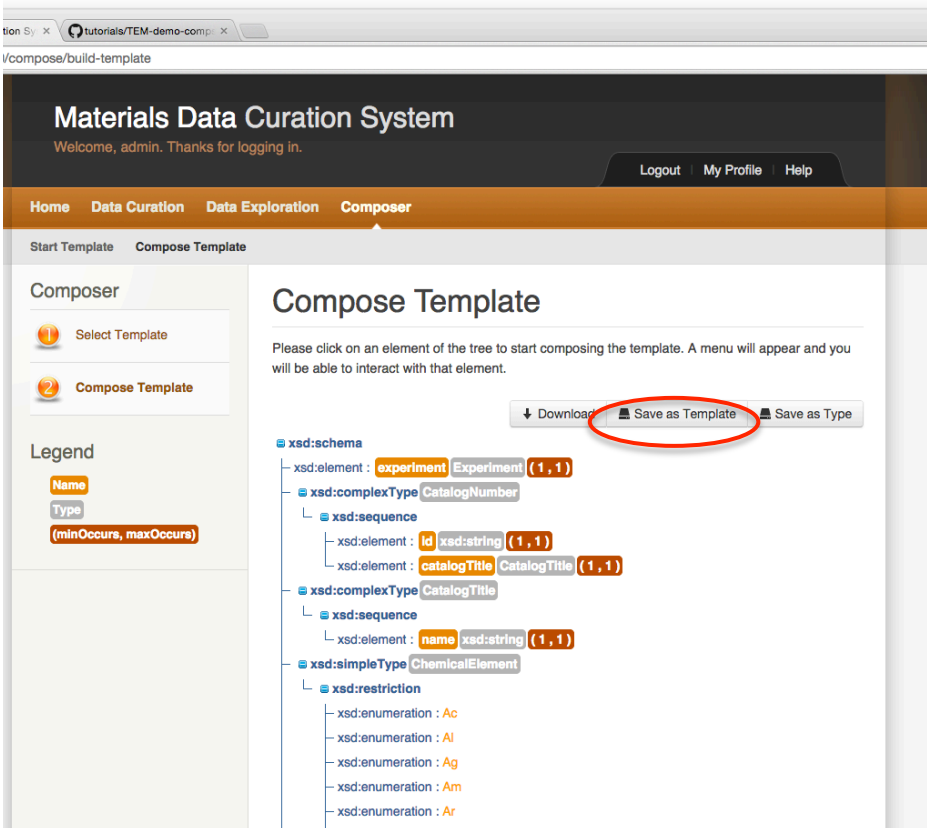


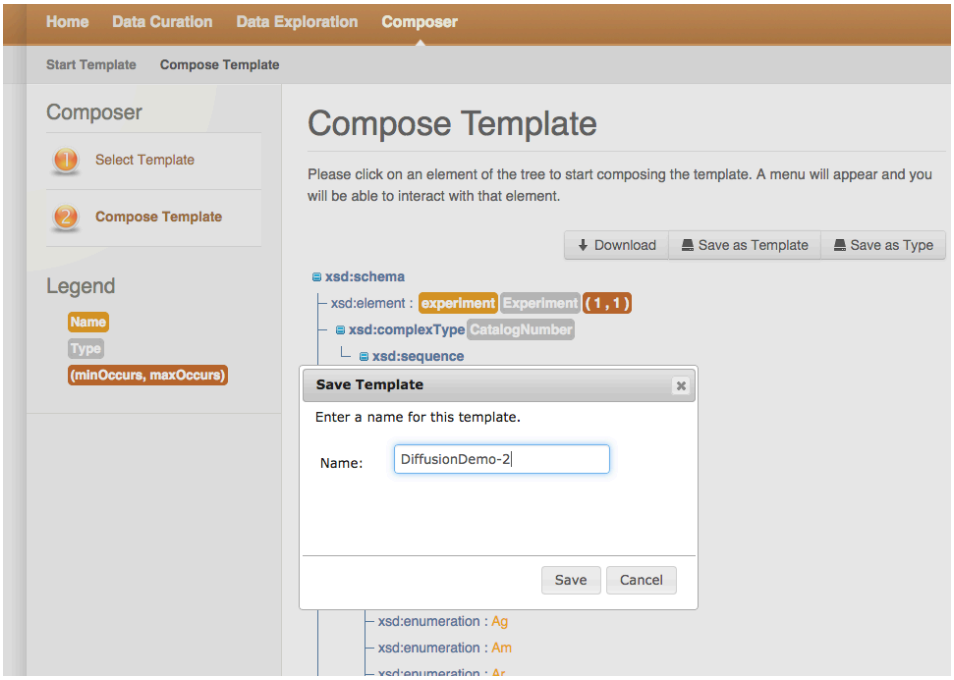


Now the number of occurrences for phase should be (1,*)

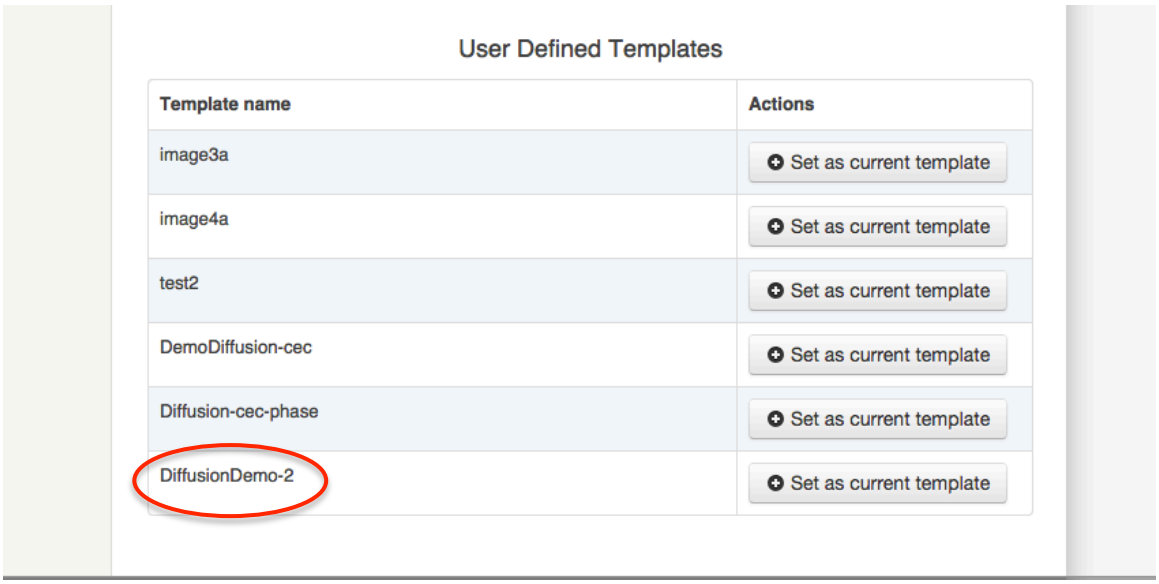


Now scroll to the top of the page and save the template as “DiffusionDemo-2”.

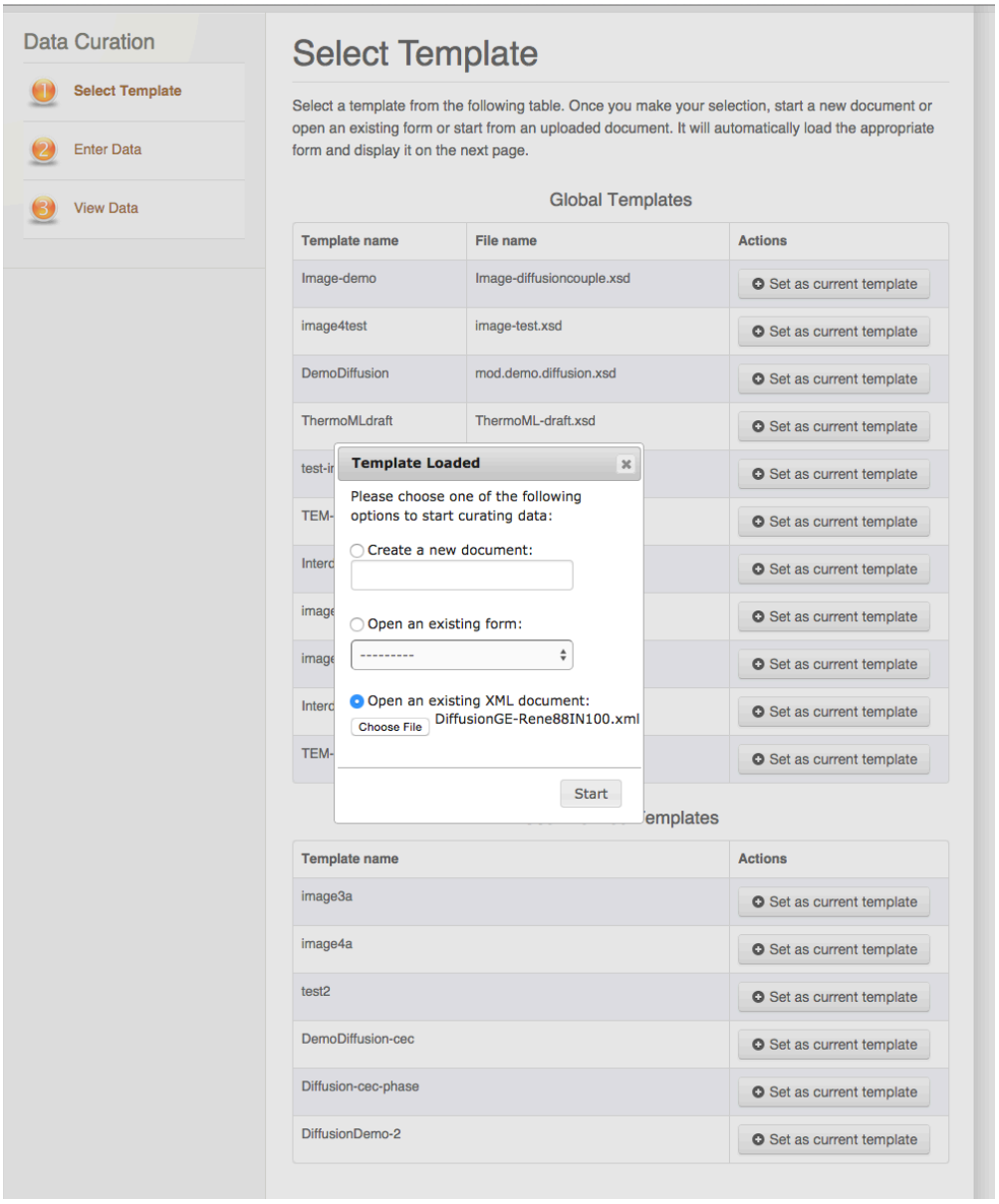




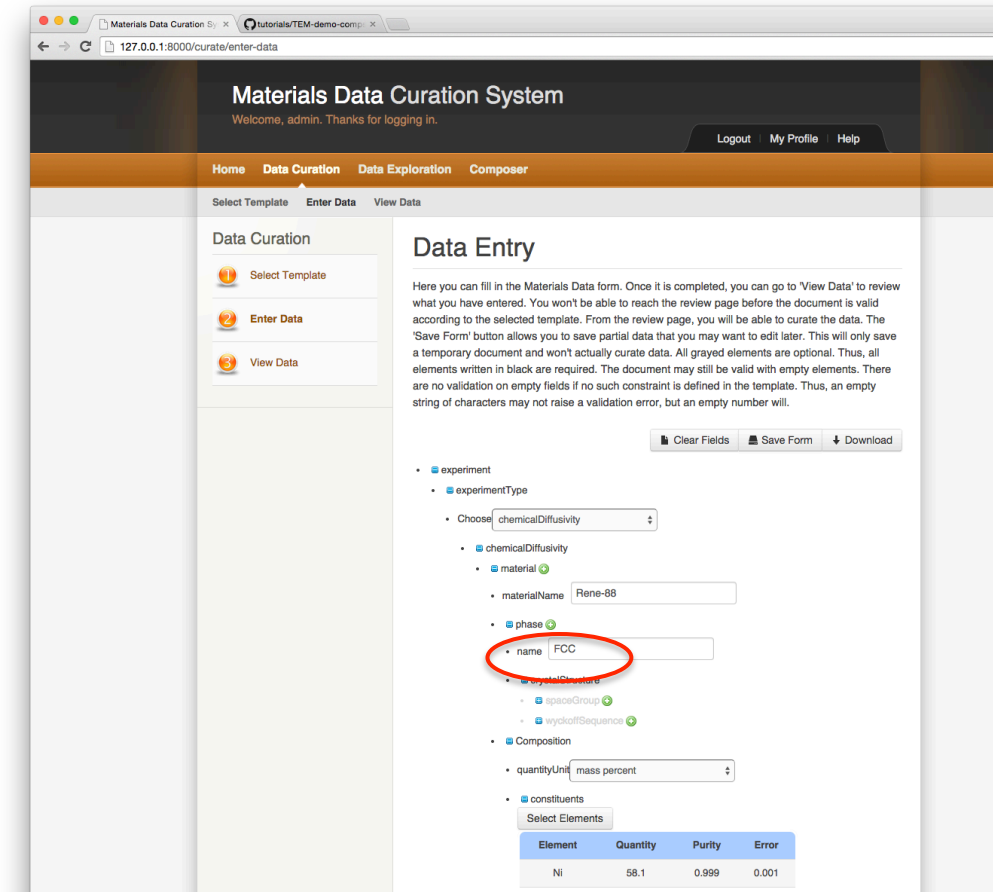
Now return to the “Data Curation” menu. You should now see under the “User Defined Templates” the DiffusionDemo-2 template.



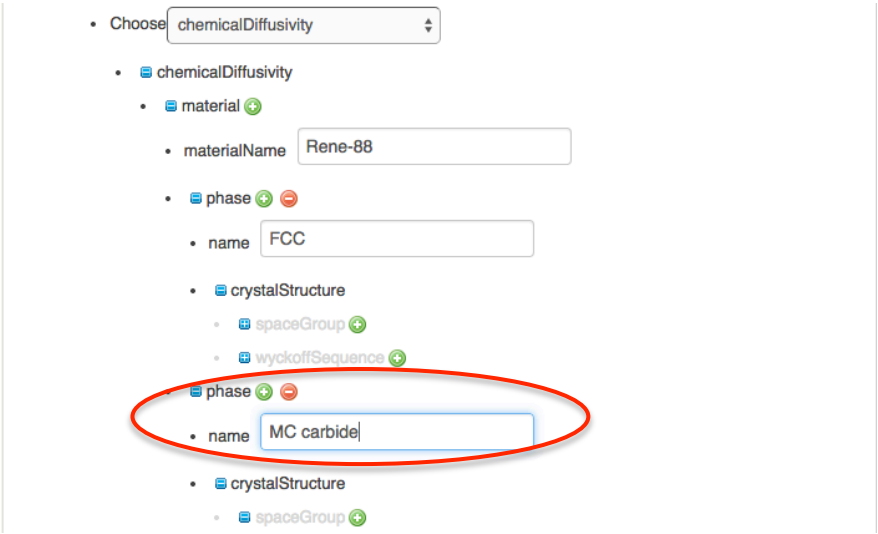
Select the template and read in the existing GE-DiffusionCouple-R88-IN100.xml document.



After reading the “GE-DiffusionCouple-R88-IN100” document, the Data Entry screen will appear. Notice there is now a “green” plus button next to phase. Click on it to add additional phase to the Rene-88 material.

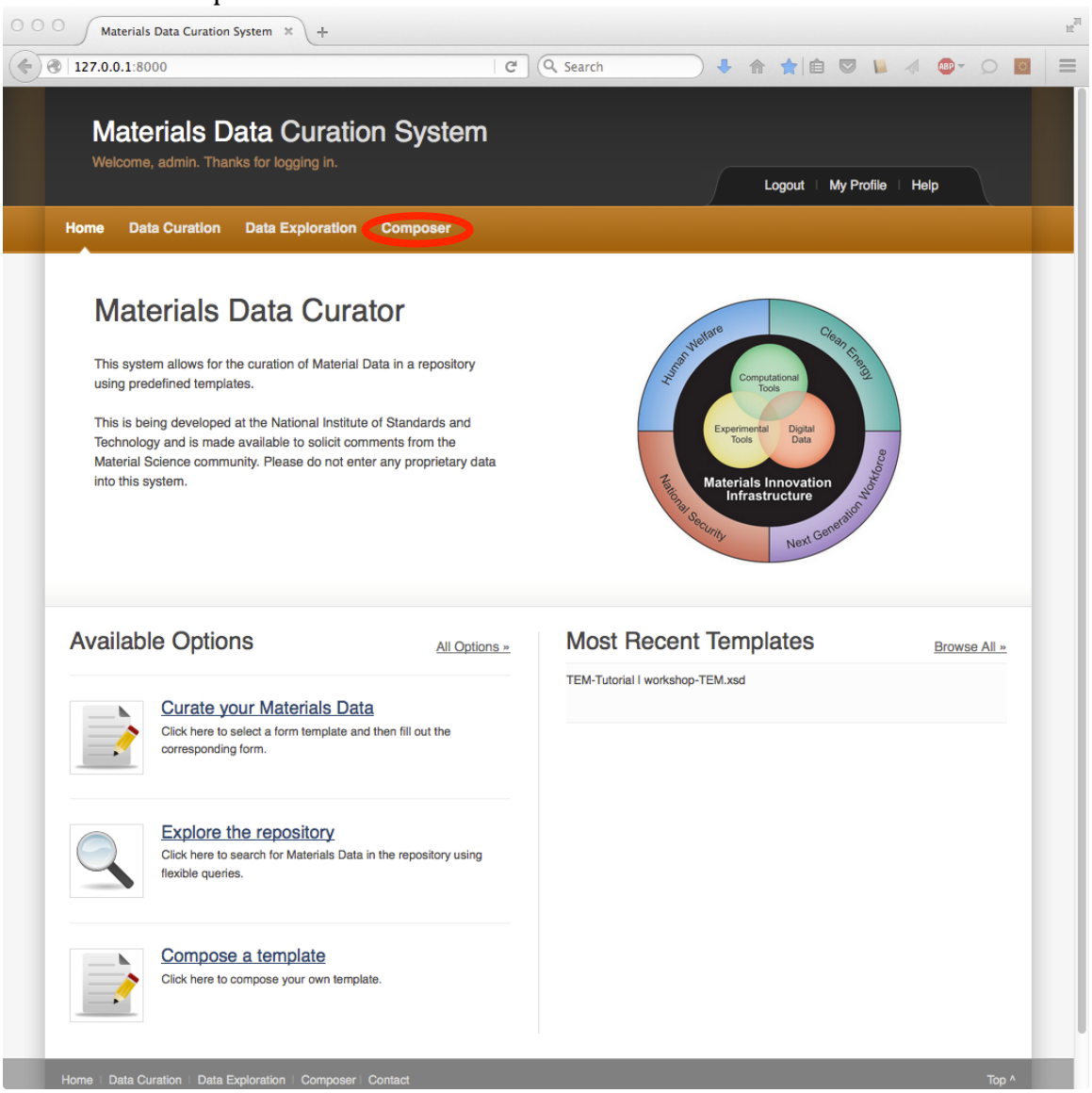


Enter the “MC carbide” as a second phase.

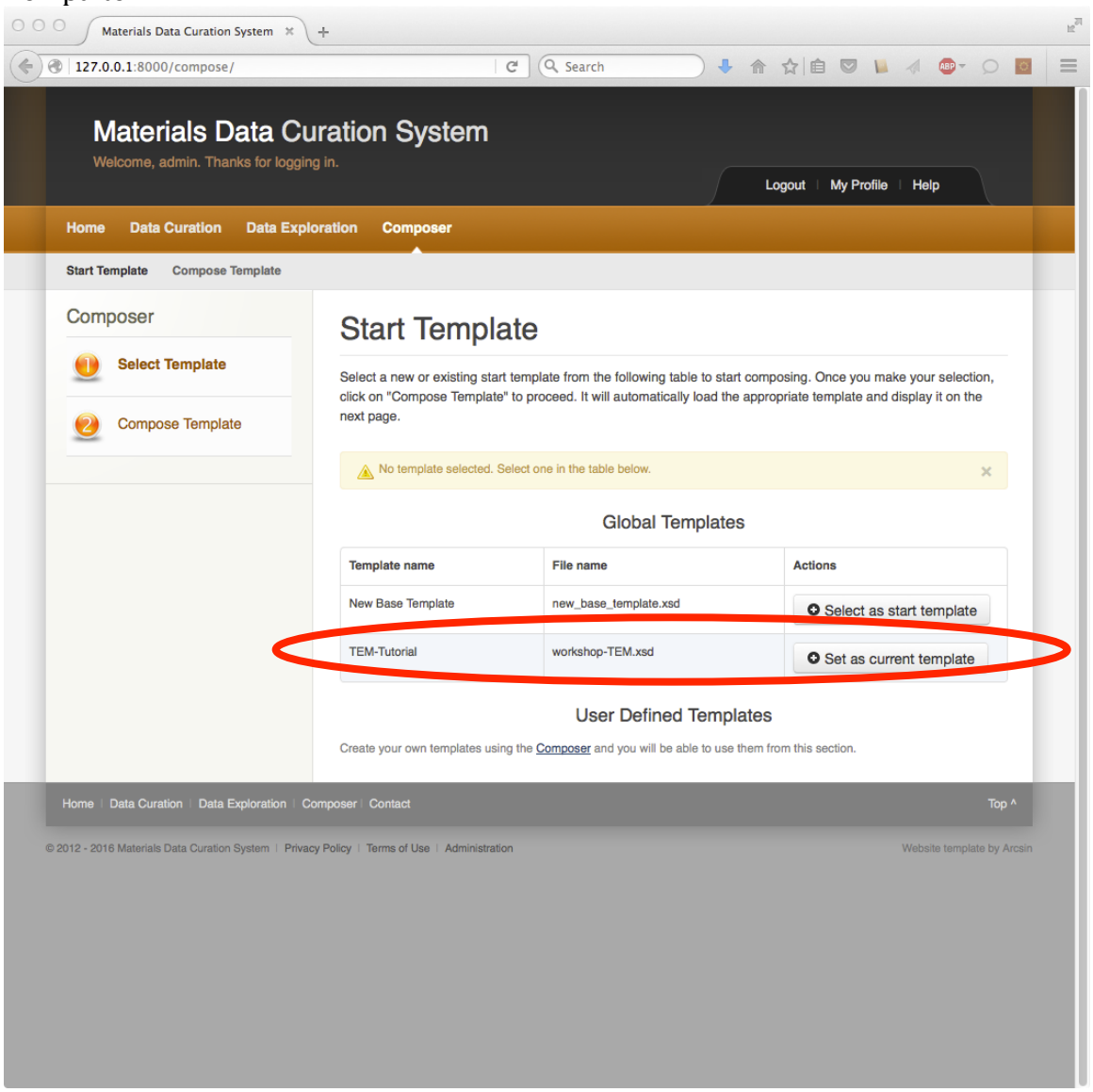


Modifying an existing Template

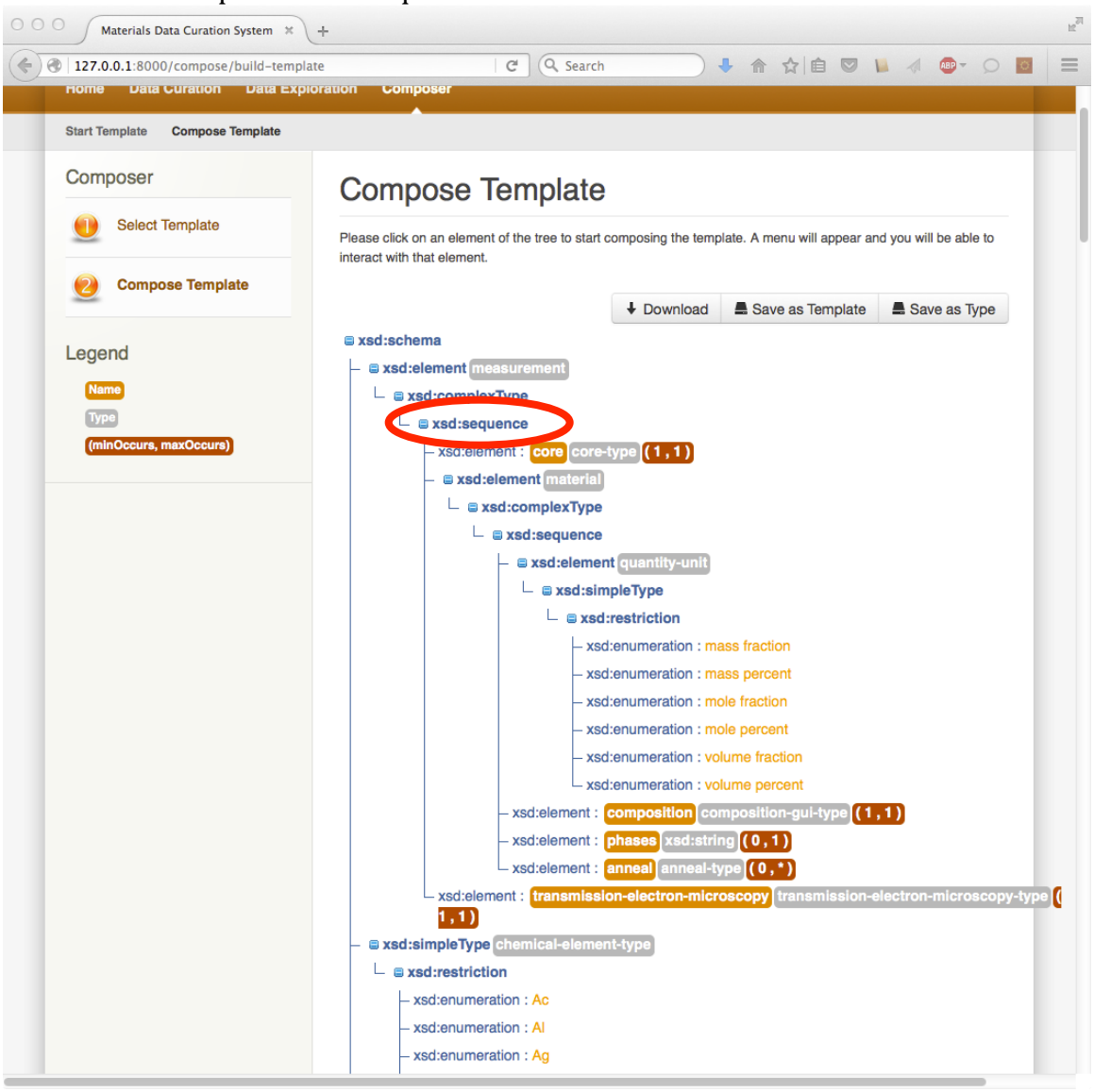
1: Click on “Composer”



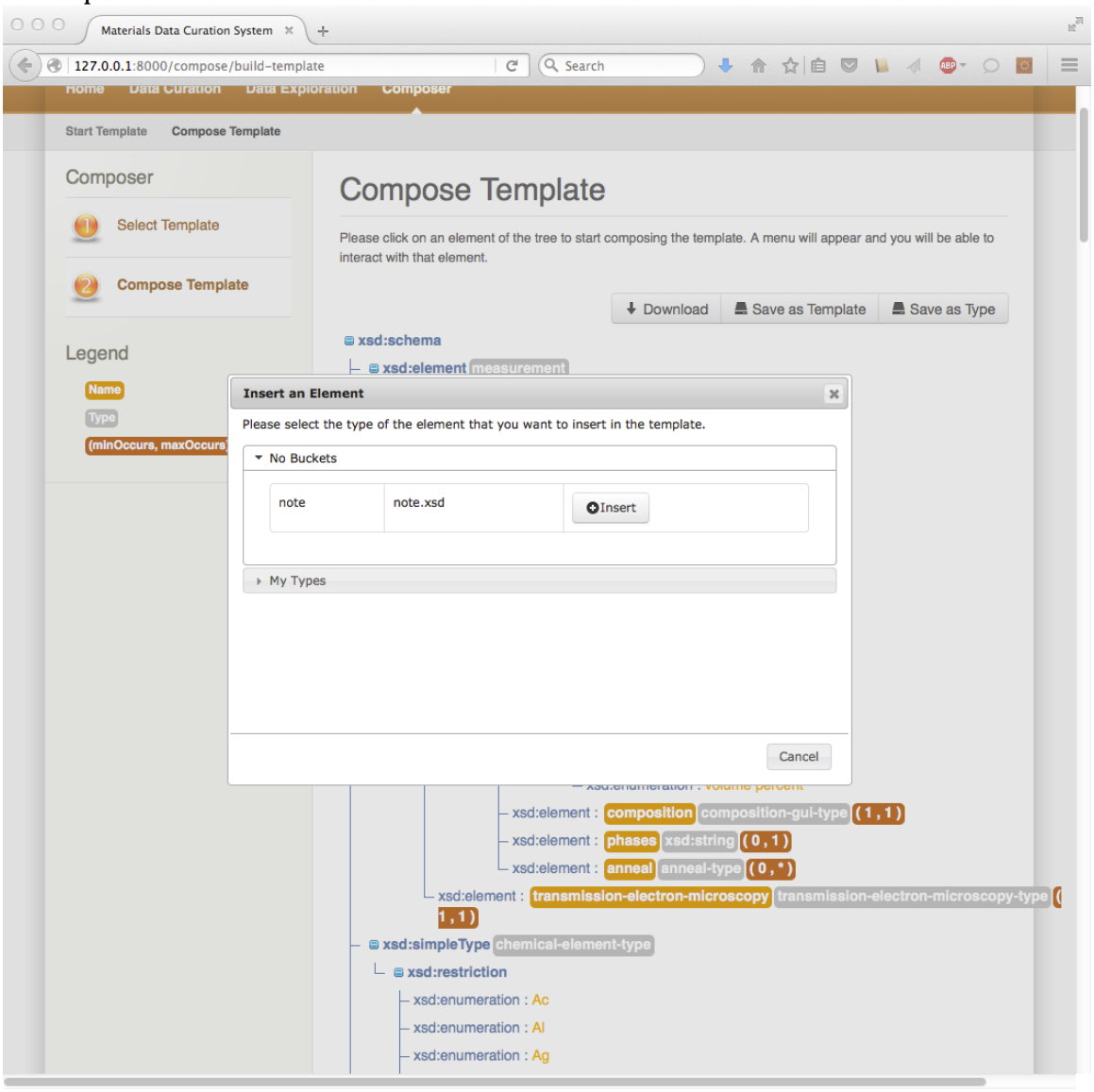
2: Select “TEM-Tutorial” as current template. Proceed to second step: “Compose Tempalte”



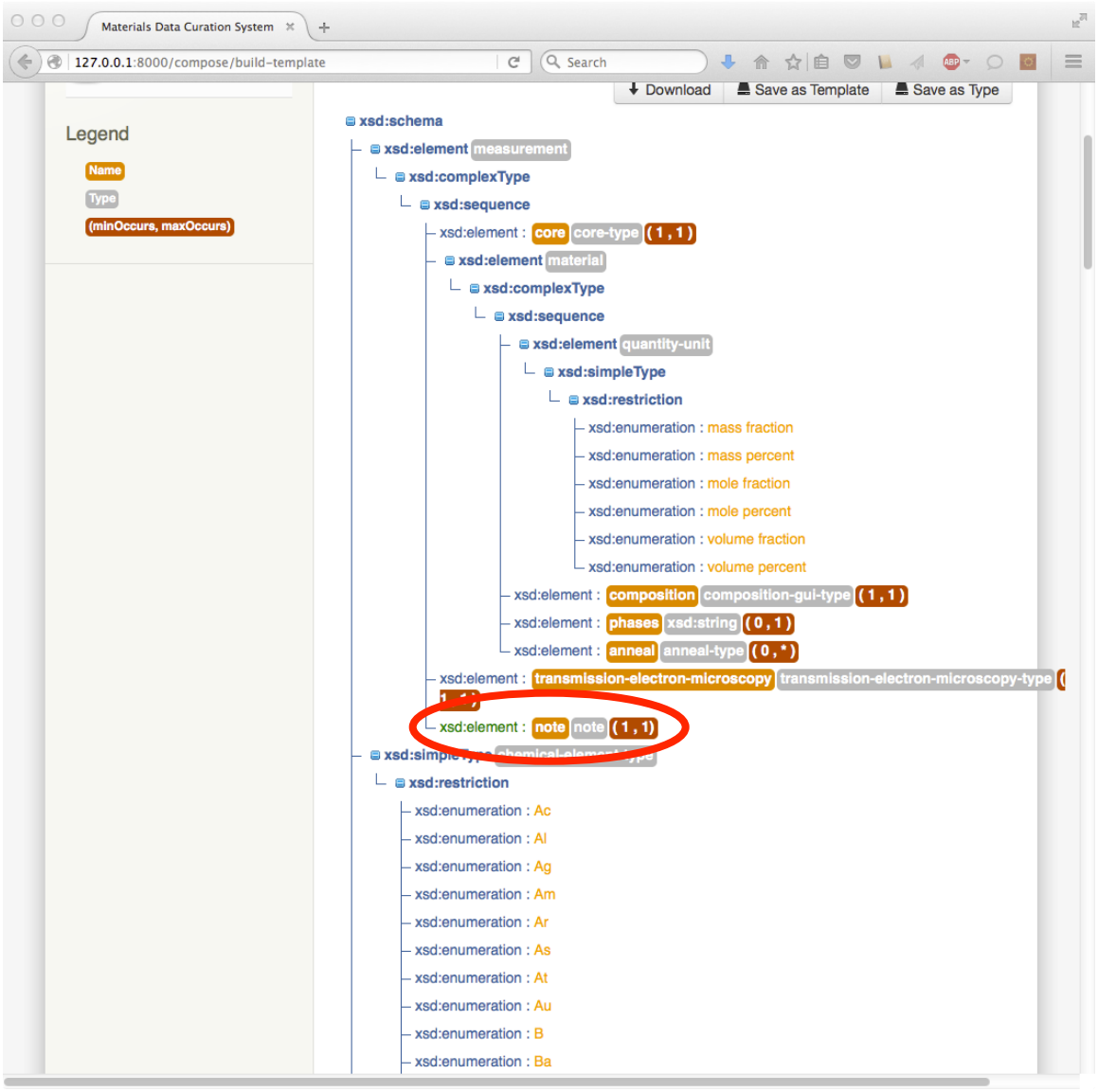
3: Click on the top-level xsd:sequence and select “Add Element”



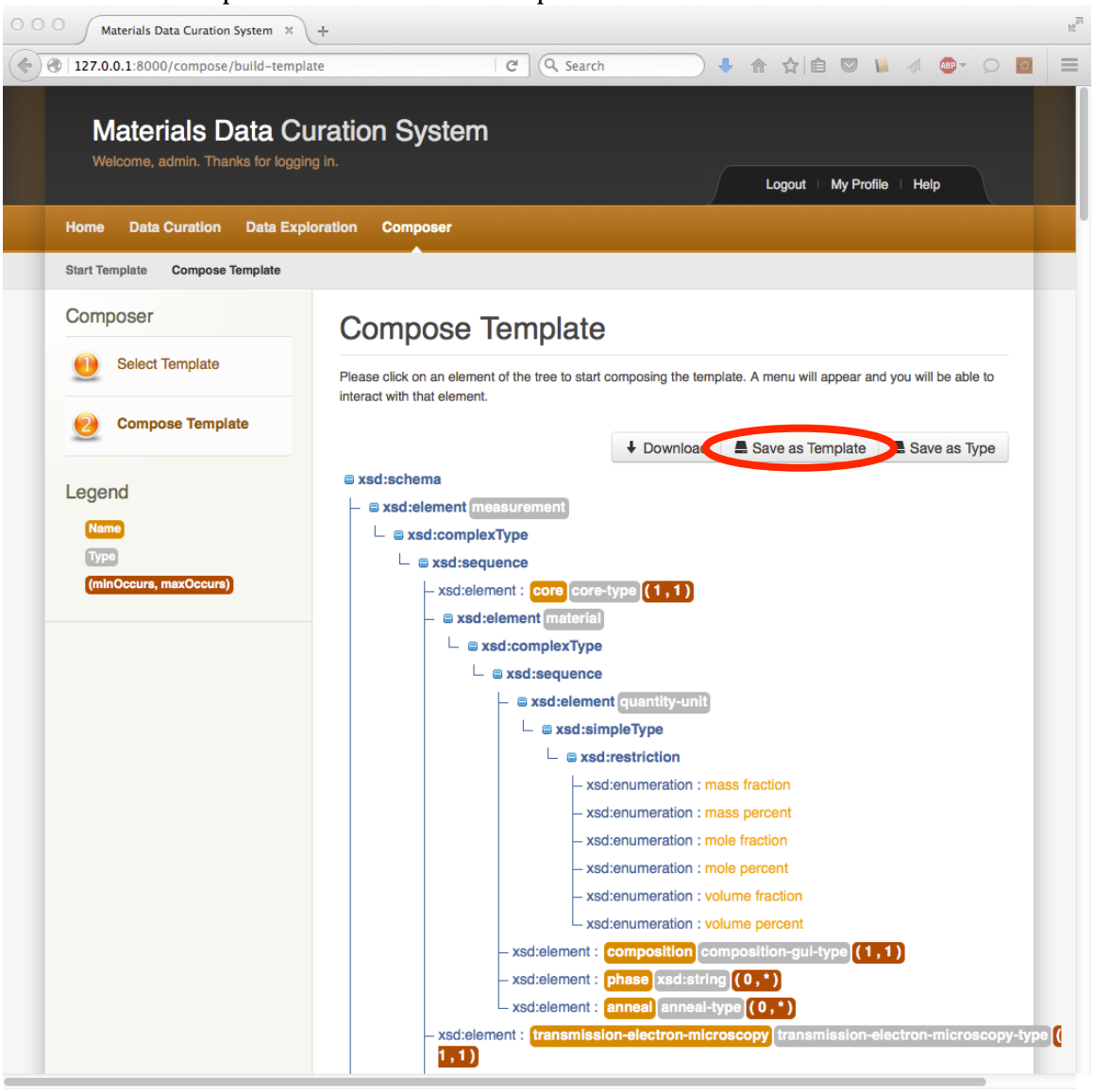
4: Drop-down “No Buckets” menu and insert “note”



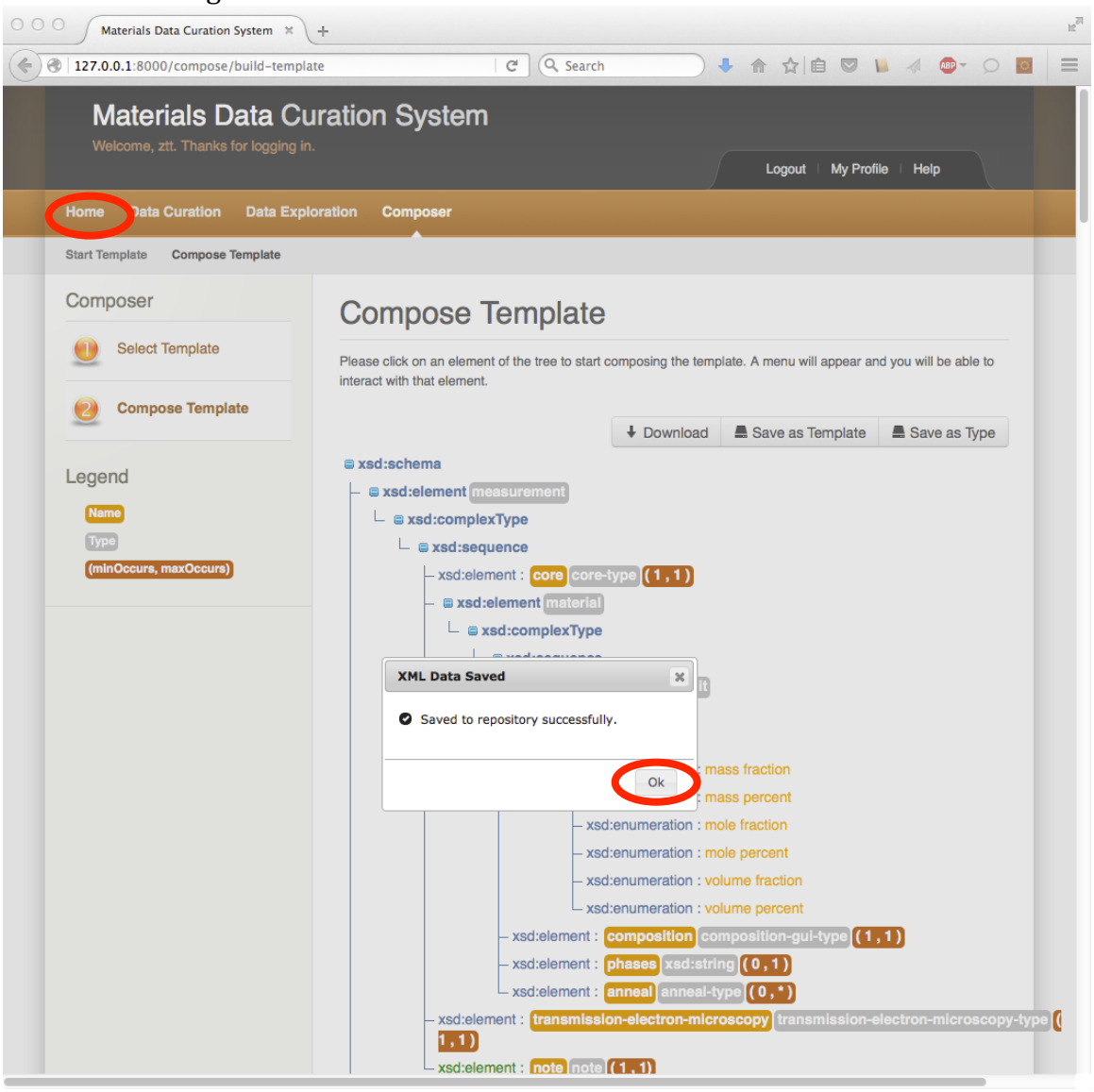
5: Notice new element



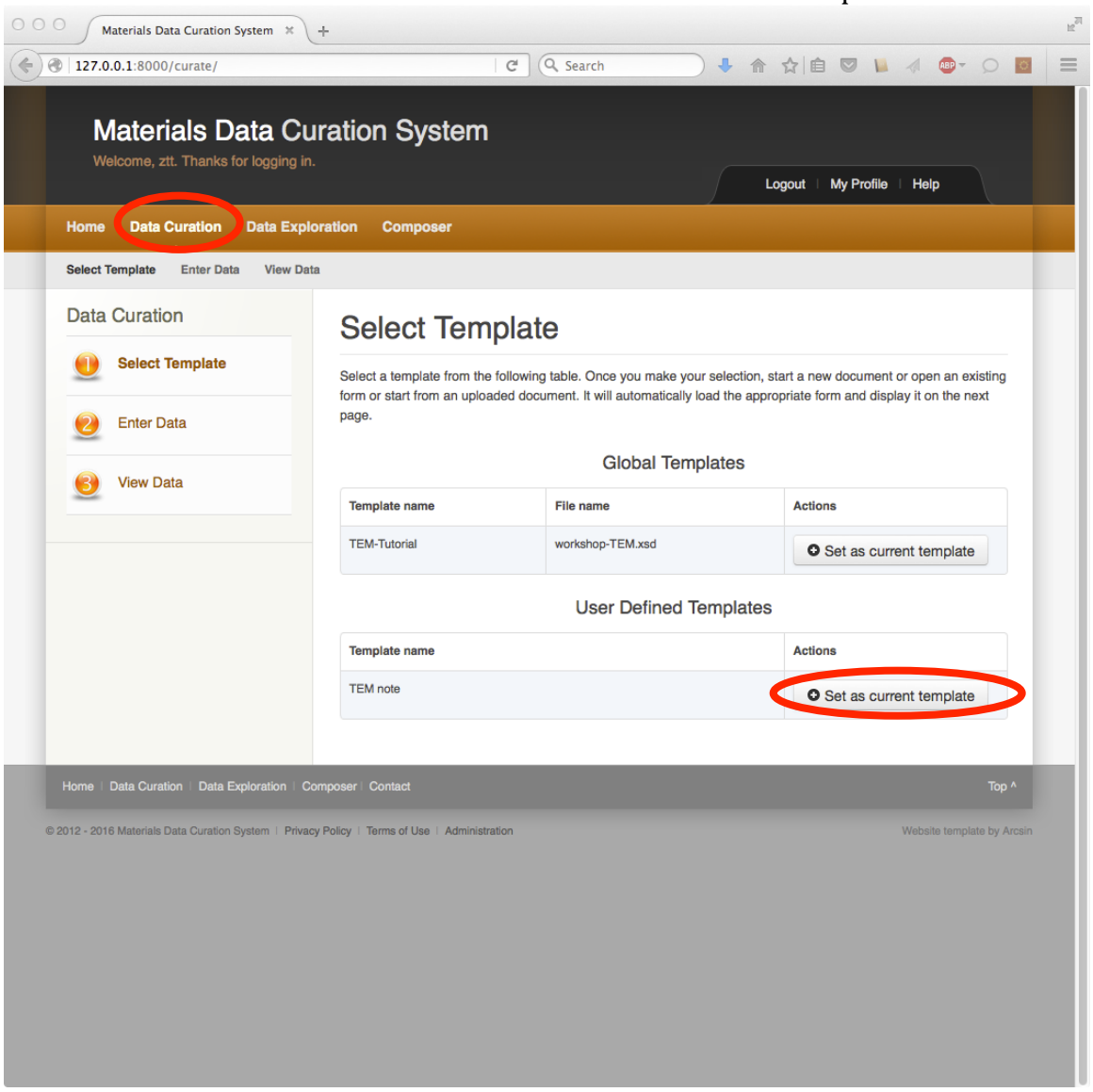
6: Scroll to the top and click “Save as Template”. Enter “TEM note” and click “save”.



7: After selecting “Ok” click “home”



8: Click on “Data Curation” and set “TEM note” as the current template



9: Select “Create a new document”. Enter “test-interface” and click “Start”. Verify “note” element was added to the template.