Customized Image Series List Description

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Document Approvals

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# Introduction

The purpose of this document is to describe the software design and implementation of Customized Image Series List. A brief feature summary is provided and an architecture diagram is also included for better understanding of the code for Customized Image Series List.

# Summary of Feature

The Customized Image Series List feature provide the capability for a registered user to create a custom series list based on a list of explicit image series instance UIDs and name it, which, in turn, allows researchers to search NBIA for published named list on other proved research. NBIA registered user can create custom named list by uploading a file that contains tab or comma separated series instance uid (.csv) or from content of NBIA data basket page.

The system will also allow registered user to make correction to their named list by uploading the series instance uid list from a file (.csv), the comment and link to their publication.

# Architectural Diagram

The following Architectural Diagram shows how CustomSeriesList back beans work with objects in business logic layer through QC data transfer objects to accomplish the data access to the data storage.

Figure Architectural Diagram



Change Example 1

Current Create Shared List Page only takes a CSV File to get the series UIDs for the new shared list. If the feature is needed to be expanded to have the functionality to let the user enter the UIDs directly, the following changes needed to be done:

* + - 1. Add a inputText to createCustomSeries.xhtml in nbia-dao project
      2. Add a private String attribute for getting the series instance uid the user entered in the inputText field in CustomSeriesListBean.java of ncia-web project and get/set method for this string variable.
      3. In the submit() method of CustomSeriesListBean.java, populate seriesUidList using the value in the newly added string variable.
      4. Rebuild everything and do a new deployment.

Change Example 2

Current Edit My Shared list allows the user to view shared created before with information about the comment the user entered, the creation date and the urls for related published reference. The series instance uid list is not displayed in the table. A column can be added to show series instance uid info. For this task, the following steps needs to be performed:

* + - 1. Add one more ice:column to editCustomSeriesList.xhtml page for getting series instance uid info in CustomSeriesListDTO.
      2. Add a string attribute for seriesUids with get/set method to CustomSeriesListDTO in gov.nih.nci.ncia.dto in nbia-dao project.
      3. Add a statement to populate the new seriesUid attribute in CustomseriesListDTO object in method convertHibernateObjectToCustomSeriesListDTOList of CystomSeriesListDAOImpl.java in gov.nih.nci.ncia.dao of nbia-dao project.
      4. Rebuild everything and do a new deployment.