ICAT4 Restful Web Service

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What is it?

It is a java web application which can:

• call a single search method on an ICAT4 server to retrieve certain metadata that has no intrinsic value by itself such as run time/date and experiment data storage location

• perform search operations without a login credential

• only execute a set of GET operations. The GET method is a safe method, meaning that calling it produces no side-effects

When is this useful?

• need to do simple GET operations on an ICAT4 server such as retrieving experiment run start time and end time for a given proposal by the SNS user office

• need to do simple GET operations on an ICAT4 server such as locating experiment data for a given instrument and run number by software applications
Is anyone using it?

- used by other SNS divisions such as user office
- used by various SNS applications such as findnexus and isaw
- used by SNS users through the Mantid project in which the FileFinder class invokes the ICAT4 web service to search for archive location for the following algorithms:
  a. Load
  b. LoadAscii
  c. LoadCalFile
  d. LoadEventNexus
  e. LoadEventPreNexus
  f. LoadGSS
  g. LoadMuonNexus
  h. LoadNexus
  i. LoadNXSPE
  j. LoadRaw
A framework that supports high-performance computing and visualization of scientific data.

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