Applications WG

Pierre & Adrian

General hot topics in Apps

- VOTable 1.5 on process to Standardization
- coosys in VOTable using MiVot
- MOC & PyVO evolution

Interop

Two Apps sessions (tools & use) + One Join with DM & DAL

Applications Session 1

Applications Session 1: Monday May 20 2023 @ 16:00-17:30 (Session #1) Room C122	
Speaker	**Title**
M.Taylor	Web SAMP and Private Network Access Recent changes in W3C security standards, and their implementation in browsers, have affected how and whether Web SAMP works from HTTP or HTTPS web applications. I will describe hub implementation changes made to accommodate these, and summarise the state of play for service providers wishing to offer SAMP functionality from their web pages
L. Michel	CooSys using MIVOT We will present a flexible solution for representing the position of moving objects at any given epoch, based on the mapping of tabular data onto the MANGO model using MIVOT annotations. We will focus on the different client-side implementations. This work comes in response to a request from Apps WG (Tucson 2023) for a durable solution to seamlessly connect coordinate systems and data in VOTables.
M. Taylor	MIVOT and MANGO in TOPCAT I will report the results of some ongoing experiments in TOPCAT/STIL working with the MIVOT annotations and MANGO DM described in Laurent's preceding talk. The idea is to extract and make use of astrometry information encoded in VOTables. I will describe progress so far and present some implementation feedback on use of MIVOT and MANGO that may be useful for the Apps and DM WGs.
M. Baumann	feedbacks on the implementation of VO standards for Aladin Lite in the frame of SKA
F.X. Pineau	Feedback on VOTable (implementing vot-cli) and fast (possibly complex) STC-S queries thanks to (B) MOCs.
Haigron & Le Sidaner	Spatial selection using MOC profits from CDS libraries

Applications Session 2

Applications Session 2: Thursday May 23 2024 @ 11:00-12:30 (Session #2) Room C122	
Speaker	**Title**
Jose Osinde	ESA TAP+/Datalink Updates The presentation will encompass the latest advancements in ESA TAP, incorporating ongoing efforts towards implementing bulk download functionality, which can be seen as an evolution of the Datalink Interface. Future developments will center on the adoption of Java 17, the integration of Spring Framework Annotations, and the establishment of a stateless TAP as a crucial step towards a scalable TAP server. Lastly, numerous challenges await, especially concerning complex authorization scenarios involving lists of accessible tables for specific groups or row access permissions. These topics will be explored and discussed during the presentation.
Molinaro & Butora	multiplicity and recursiveness in VOTable
Rach Bhatawdekar	Integration of ESASky in the ESA science archives via its API
Duy Nguyen	Jdaviz visualization app *NASA's HEASARC archive is collaborating with STScI to include VO functionality into Jdaviz, the official Jupyter data analysis and visualization tool for the JWST mission and MAST archive. This demo will show a functional prototype of a Virtual Observatory plugin developed for Jdaviz to allow integrated archive querying and loading of VO image assets into the JWST tool.*
Sara Nieto	VO protocols exposed in ESA Euclid/Survey How Euclid is serving data through VO protocols prior to upcoming Data Releases
PyVO Admins	PyVO Refresher

Join session (DM & DAL)

DM/DAL/APPS - Thursday, May 23, 16:00 -- 17:30, C122		
Speaker	**Time**	**Title**
Mark Cresitello-Dittmar	15'	**Introduction** This will primarily be a discussion session to consider options for how Data Models are to be delivered and consumed by clients (DAL, APPS) with vastly different requirements. The IVOA Data Models to date have been focused primarily on Data Discovery and Access via interactions with database tables. The results of these are served by simple VOTables and/or DataLink to native format files. More recent Data Model work (Provenance, Cube family, Mango) have been directed to more complex use cases and are consequently, more detailed than is desired to serve simple use cases directly. In addition, we have the prospect of integrating the Common Archive Observation Model (CAOM) into our Data Model suite, which has significant concept overlap with existing models, but serves its target clients very well. How do we develop/present models rich enough to serve the most complex cases AND serve clients who don't require that level of flexibility WITHOUT creating a maze of data models with overlapping content? Bring your ideas!
Laurent Michel	10'	**Epic Propagation project: case in point** (abstract)
		Open Discussion