**TAP@JHU**

Table Access Protocol implementation for JHU Databases (SDSS Data Releases)

Timeline: Beta version by July 2011

Status of the project details : this is a overall status there can be many small issues which are not mentioned here.

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| --- | --- | --- | --- | --- |
| Features | Resources | Parameters | Implementation | Comments |
| Synchronous queries | /sync |  | implemented | Needs testing |
| Asynchronous queries | /async |  | Implemented UWS  Check comments and sub resources for more details | Most of the sub resource implementation done |
| availability (vosi) | /availability |  | implemented |  |
| capabilities(vosi) | /capabilities |  | implemented |  |
| table metadata (vosi) | /tables |  | implemented |  |
| ADQL queries |  | REQUEST =doQuery  LANG=ADQL | Partially implemented | * Astrogrid parser used * It works with basic queries * Spatial Queries needs to be implemented * STC-S support is to be worked on * Spatial Query parser will take some time |
| sql query languages |  | REQUEST=doQuery LANG=SQL | Basic implementation done, | Basic SDSS queries run properly but parser is to be tested for some complex queries |
| Votable output |  | FORMAT | implemented | It works , it’s a default |
| Other output formats |  | FORMAT | In development | CSV and TSV are to be implemented |
| Limiting output |  | MAXREC | implemented | If set to ‘0’ by user, it directs to metadata tables. Some details need to be tested |
| Async job child resources | /async/<jobid> |  | implemented | Shows job related all details |
|  | /phase |  | implemented | Shows status of the job |
|  | /executionduration |  | implemented | Shows total time allowed to run a query |
|  | /destruction |  | implemented | Max time allowed for a job results to be there in system |
|  | /results |  | implemented | Shows results of successful queries |
|  | /error |  | implemented | Redirect to error page if query fails |
|  | /parameters |  | implemented | Given parameters by user |
|  | /quote |  | To be done |  |
|  | /starttime |  | implemented |  |
|  | /endtime |  | implemented |  |
| Table upload |  | UPLOAD | To be done | Integration with VOSPACE is to be done once main features are implemented properly |

Technology used:

Programming Language: Java Web Technology: Rest webservice (Jersey) Webserver: Glassfish TomCat (trying to integrate with IIS) Queing: RabbitMQ

I have questions for following :

1. Metadata queries: Need more clarification and what do you expect in terms of the queries and results .( /table resource gives all the metadata for data tables anyway)
2. quote: Is it usually tested for some queries and approximate estimation of time or something more.
3. Multiple tables output: what kind of queries can produce multiple tables.
4. Runid: need more information on it. We are interested in implementing it.
5. Do we restrict the queries to only tables listed by metadata (/tables resource) , do we need a check and match the table names while parsing the query ? or is it user’s responsibility to use tables listed? If we talk about sdss , users might know more about the sdsss database and tables and can use queries accordingly.