**QAD Application Metadata - readme file**

Notes about QAD Application metadata.

3 types of QAD metadata are included for use with the UCSB NLP project:

1. **Menu data** (in file menu-data.json)

This contains the data that populates the menus and will be useful for navigating language commands to the appropriate screen in the system.

Note: was obtained from:

<https://qvarfrdlwb01.qad.com/clouderp/api/webshell/menu>

1. **View metadata** (file view-metadata.zip contains 1 for each hybrid view screen in the system)

This contains the metadata for the hybrid view, including the fields on the maintenance form (right hand part of hybrid view screen) as well as a pointer to which browse is on the left side of the hybrid view.

Note: A single view’s metadata (e.g. for Sales Orders urn:view:meta:com.qad.erp.sales.salesOrders) is obtained from:

<https://qvarfrdlwb01.qad.com/clouderp/api/qraview/maintViewRenderMetadata?viewMetaUri=urn:view:meta:com.qad.erp.sales.salesOrders>

1. **Browse metadata** (file view-metadata.zip contains 1 for the browse part (left side of hybrid view) of each hybrid view screen in the system)

This contains the information about the browse part of each hybrid view.

Note: A single browse’s metadata (e.g. for Sales Order Browse urn:browse:mfg:so803) is obtained from: <https://qvarfrdlwb01.qad.com/clouderp/api/qracore/browses/viewSchema?browseId=urn:browse:mfg:so803>

**Data Pieces of Interest from the metadata files**

Note: Some useful online JSON tools for manual analysis:

* To validate and format/prettify: https://jsonlint.com/
* To test JSONPath statements: https://jsonpath.com/
* JSONPath reference: https://goessner.net/articles/JsonPath/index.html

1. **Menu data**
   1. **Menu Label**

JSON path: $.[0].subMenuItems[:].[:].label

e.g. $.[0].subMenuItems[0].[0].label = "Supplier Invoices"

* 1. **Menu Target** (relative URL of screen)

JSON path: $.[0].subMenuItems[:].[:].target

e.g. $.[0].subMenuItems[0].[0].target = "view/qraview/hybridbrowse?viewMetaUri=urn:view:meta:com.qad.erp.financials.supplierInvoices"

Uses:

* Build an absolute URL to navigate to the screen by prepending the system-specific view URL prefi“<https://qvarfrdlwb01.qad.com/clouderp/#/>”:

e.g. Screen URL for “Supplier Invoices” is:

<https://qvarfrdlwb01.qad.com/clouderp/#/view/qraview/hybridbrowse?viewMetaUri=urn:view:meta:com.qad.erp.financials.supplierInvoices>

* Determine unique URI that points to the screen-specific view metadata: the *viewMetaUri* parameter.

e.g. “urn:view:meta:com.qad.erp.financials.supplierInvoices”

1. **View Metadata**
   1. **Form Field Labels**

JSON path: $.viewRenderData.viewRenderMetadata.childRenderElements[:].fieldLabel

e.g. $.viewRenderData.viewRenderMetadata.childRenderElements[0].fieldLabel = “Supplier”

Note: this is not getting all of them - need to refine. e.g. to recursively see all: $.viewRenderData..fieldLabel

* 1. **Form Field Names**

JSON path: $.viewRenderData.viewRenderMetadata.childRenderElements[:].viewMetadataElement.fieldName

$.viewRenderData.viewRenderMetadata.childRenderElements[0].viewMetadataElement.fieldName = "supplierCode"

Note: this is not getting all of them - need to refine. e.g. to recursively see all: $.viewRenderData..fieldName

Use of form fields: auto fill values into specific form fields from user natural-language input

* 1. **Key Fields**

JSON path: $.viewRenderData.keyFields[:]

Note: this gives <component>.<table>.<fieldName>

* 1. **Browse URI**

JSON path: $.viewRenderData.listUrl

e.g. "api/qracore/browses?browseId=urn:browse:fin:BCInvoice.SelectCInvoiceForQRA"

Use: identify which file to use to inspect the browse metadata for the left half of the screen

1. **Browse Metadata**
   1. Search (Filter) Field Label

JSON path: $.viewSchema.fields[:].label

* 1. Search (Filter) Field Name

JSON path: $.viewSchema.fields[:].name