PSICQUIC view search requirements

Author	Rafael C jimenez, Guillaume Launay, Eugenia Galeota, Noemi del Toro
Intended Audience	Biologist and bioinformaticians willing to visualize number of molecular interactions per PSICQUIC service with a MIQL query.
Use	The document contains a form that should be completed. The form within the document is intended to gather all the graphical components requirements for representing biological information on the web.
Keywords	biojs, requirements, questionaire, molecular interactions

Reference	Date	Last Reviewed	Description	Version
BIOJS_XX2012_XX	29/05/ 2012	29/05/2012	Initial draft	1.0

Requirements for PSICQUIC view search

1 High level details

Describe the general considerations for the component. For example, the libraries to be used, notes, icon set, patterns, etc.

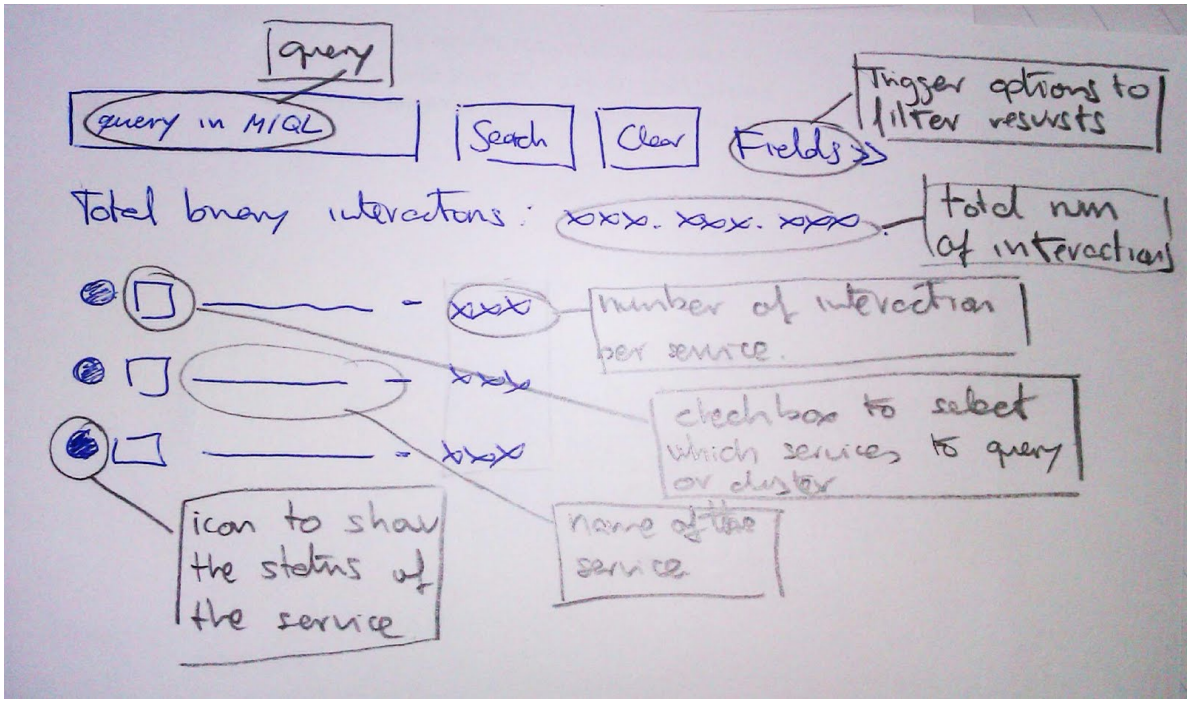
Name	*Description*
PsicquicViewSearch	*Component to display for each database hosting the psicquic service the number of molecular interactions that correspond to an input miql query*

2 Style

CSS element	*Default Value*	*Description*

3. How to draw it?

Please draw a detailed sketch for the component (note that it would be a drawing on paper). Feel free to describe the relevant information.



Actions:

First query:

1. Get MIQL query (default:*)
2. Query registry
3. Get selected services (default:all)
4. Fire onQueryReady
5. Query services (count)
6. Display

Search button:

7. Get MIQL query
8. Get selected services
9. Fire onQueryReady
10. Query services (count)
11. Display

Clear button:

1. Clears the query box

4. Options

Name	*Mandatory*	*Type*	*Description*
target	yes	String	Identifier of the div target where the component will be rendered into.
miqlQuery	no	String	MIQL query to query PSICQUIC services
urlRegistry	no	String	URL with the list of the services providers. List in XML format using the PSICQUIC registry schema.
queryBoxDisplay	no	Boolean	Hide or show the search box
queryFieldsDisplay	no	Boolean	Hide or show advanced query fields
servicesListDisplay	no	Boolean	Hide or show list of services
displayServices	no	Array<String>	List of services to be displayed by default at start up. If empty array all services should be displayed.
defaultCheckedServices	no	Array<String>	List of services to be checked by default at start up.get If empty array all services should be checked.

5. Events

Please specify which events must be listened and which ones must be triggered by the component , and what must be the response/action must realise. Answer the following questions for each event:

What is the type of the event?
Which key was pressed during the event?
Which mouse button was pressed during the event?

What was the mouse position during the event?
What is the response of the component? step-by-step

<table>
<tr><th>Name</th><th>Key/Mouse button(s)</th><th>Position</th><th>Response</th></tr>
<tr><td>onQueryReady</td><td></td><td></td><td>This event have to be raised before we query PSICQUIC services. This means we raised this event after a new query is collected and whenever the registry is available.

Data for the response:
<table><tr><th>name</th><th>type</th><th>description</th></tr><tr><td>miqlQuery</td><td>String</td><td>MIQL query</td></tr><tr><td>listOfServices</td><td>Array<String></td><td>An array of URL for selected PSCIQUIC services</td></tr></table></td></tr>
<tr><td>onDatabaseNameClick</td><td>Click mouse button</td><td></td><td>This event is raised when user clicks on a database name.
ata for the response:
<table><tr><th>name</th><th>type</th><th>description</th></tr><tr><td>serviceName</td><td>String</td><td>The name of the clicked service</td></tr><tr><td>serviceURL</td><td>String</td><td>The URL of the clicked service</td></tr><tr><td>miql</td><td>String</td><td>miql query to the specified server</td></tr></table></td></tr>
</table>

6. Methods

<table>
<tr><th>Name</th><th>Arguments</th><th>Action</th></tr>
<tr><td>querySearch</td><td><table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>miqlQuery</td><td>Y</td><td>String</td><td>a miql query</td></tr><tr><td>checkedServices</td><td>N</td><td>Array<String></td><td>List of services to query. By default all registered services.</td></tr></table></td><td>Trigger a query to query PSICQUIC services and updates the number of hits per service and update the miqlQuery option.</td></tr>
</table>

<table>
<tr><td>_setMiqlQuery</td><td><table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>miqlQuery</td><td>Y</td><td>String</td><td>a miql query</td></tr></table></td><td>Updates the miqlQuery option.</td></tr>
<tr><td>setCheckedServices</td><td><table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>checkedServices</td><td>Y</td><td>Array<String></td><td>list of services to check for a future query</td></tr></table></td><td>Checks the services specified in the array given as parameter.</td></tr>
<tr><td>toggleQueryBoxDisplay</td><td>none</td><td>Hide or show the search box</td></tr>
<tr><td>toggleQueryFieldsDisplay</td><td>none</td><td>Hide or show advanced query fields</td></tr>
<tr><td>toggleServicesListDisplay</td><td>none</td><td>Hide or show list of services</td></tr>
<tr><td>_queryRegistry</td><td><table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>urlRegistry</td><td>Y</td><td>String</td><td>URL with registry content in XML</td></tr></table></td><td>Get list of services</td></tr>
<tr><td>getSelectedServices</td><td>none</td><td>Array of service IDs to query</td></tr>
<tr><td>refreshServicesList</td><td><table><tr><th>Name</th><th>M</th><th>Type</th><th>Description</th></tr><tr><td>query</td><td>Y</td><td>String</td><td>a miql query</td></tr><tr><td>urlRegistry</td><td>Y</td><td>String</td><td>URL with registry content in XML</td></tr></table></td><td>Query again the registry and perform a querySearch with the current query</td></tr>
<tr><td>getCheckedServices</td><td>none</td><td>Array <String> with the service names</td></tr>
</table>

_drawHeader	none	Draw the query box and the advance field
_drawTemplate	none	Draw the list of services, the status lights, the checkboxes and the number of interactions per service.

7. Glosary

Term	*Description*

Comments
Services unchecked for a query will display status unknown (grey)
We will just query and count for services that are checked