# 1 Features

The "Segolene-front-office" branch mostly concerns the historical part of the navigation in the front office. Several modules where developped:

- Data visualisations;
- Sidebar for metadata;
- Search interface;
- Bread crumbs;
- Related table editions.

NB: the presented functions are here often simplified for demonstration purposes comparing to the way they are integrated into the code.

## 1.1 Data visualisation

# 1.1.1 Visualisation description

Three different visualisations were developed for the historical navigation with the Am-Charts library:

• Column chart: visualisation for the work record page. Each column represents a primary source divided in original items (the cells) which colors are determined by their astronomical object; the visualisation allows to show completeness and content of the sources derived from a intellectual work.

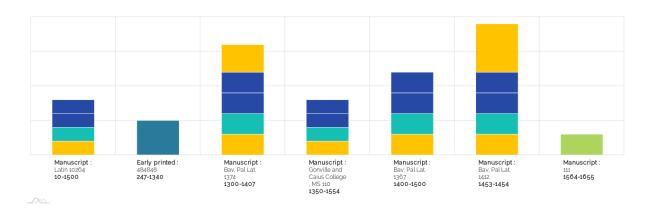


Figure 1: Column chart for work visualisation

• Bar chart: visualisation for the primary source record page. Each bar represents a work that is contained in the primary source, each bar being divided in original items originated from the work. A select allows two switch between two states of the visualisation: one where all pages of the items are added together, one where they are disposed accordingly to their position in the source. The visualisation thus can show the composite aspect of some primary sources.

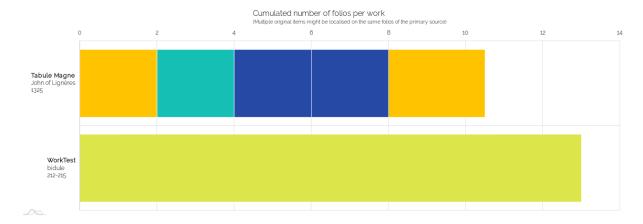


Figure 2: Bar chart for primary source visualisation: original items stacked

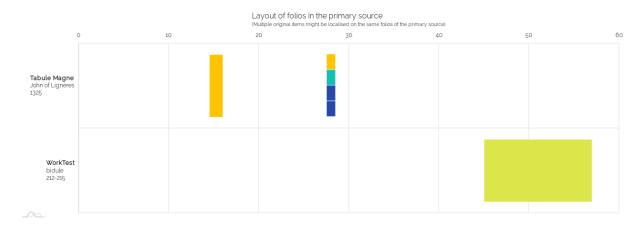


Figure 3: Bar chart for primary source visualisation: original items spread out

• **Historical map**: visualisation for the original item records, the historical navigation and more to come. The map displays points that represent the place of creation of works (in yellow), primary sources/original items (in red) and combination of both (in orange). A heatmap underneath represents the time axis and show what period were more prolific: the scrollbar allows the user to select a time period so that only the items created during the timerange are shown.

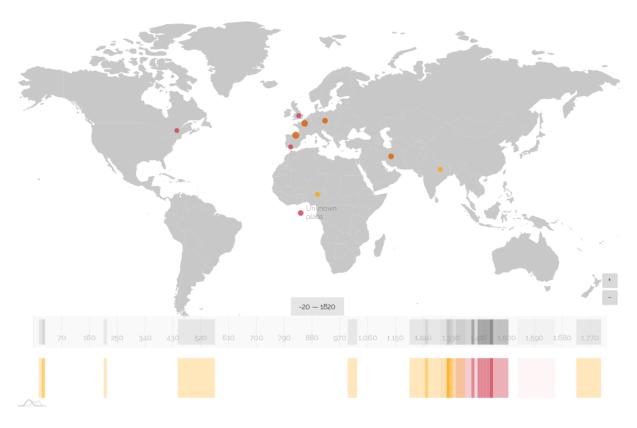


Figure 4: Map for historical navigation

# 1.1.2 Function explanation

**Historical map** This function is triggered when the user change the range selected by the scrollbar. What it does is that each time the start and the end grips of the scrollbar are both outside (by being under or above it) of the **tpq** and **tap** dates of an item, the item is not shown on the map. When the grips are not both outside, the size, color, tooltip of the map point are set accordingly to the items that were created in the timerange selected.

```
scrollbarX.events.on("rangechanged", function () {
1
       let cursorMin = scrollbarX.range.start;
2
3
       let cursorMax = scrollbarX.range.end;
4
        // Conversion of the min and max range value into date
       let dateMinRange = parseInt((cursorMin / yearRange) + startBar);
7
       let dateMaxRange = parseInt((cursorMax / yearRange) + startBar);
8
        // Show the timerange selected
       scrollbarX.startGrip.tooltipText = `${dateMinRange}`;
9
       scrollbarX.endGrip.tooltipText = `${dateMaxRange}`;
       timeframeLabel.text = `${dateMinRange} - ${dateMaxRange}`;
13
       i = 0;
        // for each place in mapData
14
       for (let index in mapData) {
16
            // defining appearance of the circle localised on the place
            let place = mapData[index];
17
            let opacity = 0; // if no item is to be displayed, opacity to 0
18
            let countW = 0; // count of the number of works to be displayed : color and radius of the
19
         circle
           let countPS = 0; // count of the number of primary sources to be displayed : color and
20
        radius
21
           let number = 0:
22
            for (let j = place.items.length - 1; <math>j \ge 0; j--) {
23
                let dateMin = (place.items[j].from - startBar) * yearRange;
25
                let dateMax = (place.items[j].to - startBar) * yearRange;
```

```
26
        if (!((cursorMin > dateMax && cursorMax > dateMax) || (cursorMin < dateMin &&
        cursorMax < dateMin)))</pre>
                    // when the two cursors are not both outside of the time frame selected
27
                    // either by being under or above it
28
29
30
                    number++:
                    opacity = 0.8; // set the opacity in order to not be transparent
31
                    if (place.items[j].entity === "work") {
32
                        countW += 1; // add one to the count of works
33
34
                    } else {
                        countPS += 1;
35
36
                    }
                }
37
            }
38
39
            let Wtootltip = countW !== 0 ? "[bold]Work[/]\n " + countW + " record(s)" : "";
40
            let PStootltip = countPS !== 0 ? "[bold]Primary source[/]\n " + countPS + " record(s)" :
41
42
43
            let tooltip = "[font-size:18px]" + place.place + "[/]\n" + Wtootltip + PStootltip;
           number = number !== 0 ? number * 100 : 100;
44
45
            placeMarker[i].fillOpacity = opacity;
            placeMarker[i].radius = Math.log(number);
47
48
            placeMarker[i].tooltipText = tooltip;
49
50
       }
   });
```

Bar chart This function is triggered when the user selects one or another option. If the option is "page disposition", the height and displacement of the cell are determined in relation to the number of items in the same bound as theirs. In other words, the more items there are on the same pages, the thiner and the more deported from the center will be the cell representing one item.

```
function selectView(select) {
1
        if (select === "spread") {
2
            chart.data = spreadOutSet; // make the chart use the "spread out" data set
3
            let numberOfWorks = Object.keys(worksBounds).length;
4
5
            let heightWork = 292/numberOfWorks; // height of the horizontal part dedicated to one
            let heightBar = 225/numberOfWorks; // height of the bar in itself
6
            for (let work of Object.keys(worksBounds)){
8
9
                bounds = worksBounds[work];
10
                for (key of Object.keys(bounds)){
                    i = 0;
11
12
                    let bound = bounds[key];
13
                    let numberOfOrigItems = bound.origItems.length;
                    for (let id of bound.origItems) {
14
                        let heightItem = heightWork/numberOfOrigItems;
16
                        // setting the height of the cell
                        series[id].columns.template.height = heightItem;
17
                        // configuring the displacement of the cell comparing to the center
18
                        if (heightItem !== heightWork){
19
                             series[id].columns.template.dy = -(heightBar/2) + (heightItem * i);
20
                        }
21
                        i++:
22
                    }
23
                }
24
25
            }
        } else if (select === "stack") {
26
            chart.data = stackedSet; // make the chart use the "stacked" data set
27
28
            for (id of ids){
29
                series[id].columns.template.dy = 0;
                series[id].columns.template.height = am4core.percent(80);
30
31
            }
32
```

After creating an object detailling how the different items are disposed in the primary source (workBounds = {"workTitle1" : [{bound : [min, max], origItems : [id1, id2]},{bound : [min, max], origItems : [id3]}], "workTitle2" : [...]}), some items being on the same pages, each series of the chart (i.e. each cell) is individually styled according to how the items are disposed.

### 1.2 Sidebar of metadata

The sidebar is a template that is integrated to the record pages of work, primary source and original item. The template is filled with an associative array filled with metadata of the record that is being displayed: this associative array is build thanks to the <code>getMetadataTable()</code> method located in each repository of the concerned entities.

General information  Tabule Magne		
Creator	John of Lignères (1290-1350)	Q
Date of conception	1325	Q
Place of conception	Paris, France	Q
Author of the record	Matthieu Husson	

Figure 5: Metadata display in the sidebar

Data struture The data produced by the getMetadataTable() method is always structured the same way in order to correctly generate the sidebar using the template sideMetadata.html.twig.

```
"search" => ["json" => [],// no magnifier when this array is empty
"hover" => ""],
"title" => []]
```

Each key of the array (except for the key entity) corresponds to a field that is going to appear in the sidebar. The upper part of the sidebar is filled with the keys "title" and "subtitle" (not required), and for the part in the white insert, each key constitutes the text that is going to appear as field name.

To each of these keys is attached an associative array defining how the metadata related to these fields are going to be displayed. Each key referes to something specific:

- values: the text in html that is going to appear next to the field name. In the array associated to this key, can be added an array if the text is going to be a link:
  - html: text to display
  - id: id of the entity in order to build the link
  - path: path of the page to redirect to
- search: data used for generating the magnifier (i.e. redirecting to the search page for more related items). To this key is attached an other associative array:
  - json: query in the DSL language of ElasticSearch. Not all the query is needed,
     only the query part. The source, size, etc are generated after that.
  - hover: text that is going to appear when hovering the magnifier, which is a description of the query
  - title: title of the query that will appear in the result page

The keys values, json and title are associated to an array because some fields can have several values to display, for instance is a work has multiple creators. For example, if a primary source is written in two different scripts, the metadata associated to the "script field" will look like this:

```
["scripts" =>
2
3
           ["<span class='mainContent'>Latin</span>"
            "<span class='mainContent'>Gothic</span>"],
4
           ["json" =>
6
               ['["bool":["must"=>[[["match"=>["original_texts.script.id"=>85}}]]}}'
                '["bool":["must"=>[[["match"=>["original_texts.script.id"=>46}}]]}}'],
8
            "hover" => "Find all primary sources written in the same script",
9
10
               ["All primary sources written in latin",
11
                "All primary sources written in gothic"]
        ]
13
    ];
14
```

**String formatting** The text that is going to be displayed is formatted thanks to the toPublicString and toPublicTitle methods:

• toPublicString is used when the information will be displayed as metadata (i.e. in the record page of an original item, the name of the work of this item will be formatted with this method);

• toPublicTitle is used when the information will be displayed as main content (i.e. in the record page of a work, the name of the work will be formatted with this method).

The getTpaq() methods returns for each entity associated with a tpq and a taq date, a correctly formatted date, for example :

```
• if tpq = 1245, and taq = 1325 ==> "1245-1325"
```

```
• if tpq = 1325, and taq = 1325 ==> "1325"
```

**Managing missing information** If an information is missing, (for example, if the current entity doesn't have place associated with it), several layout options are available:

• textbf*Not showing the field at all*: the key for this field must not appear in the array of metadata, or the array associated to the **values** key must be lefted empty.

```
// the field translator must appear only if there is one
if ($work->getTranslator()){
    $metadata["translator"] = $metadataTable;
    $metadata["translator"]["values"][] = $work->getTranslator()->toPublicString();
}
```

• Showing the field with a string indicating the missing information: in the array associated to the values key, a string can be set when there is no information available for the current field. It must be encapsulated in a <span class="noInfo"></span> tag.

```
1 // if there is no incipit, display "Missing incipit"
2 $incipit = $work->getIncipit() ? $work->getIncipit() : "<span class='noInfo'>Missing incipit</span>";
```

• Keeping the field empty of information: when the array of the values key is lefted with an empty string in it, the template of the sidebar will automatically display <span class="noInfo">No information provided</span>

```
1 // if there is no historical actors, set the values to be [""]
2 $values = count($actors) != 0 ? [] : [""];
```

**Pie chart** A pie chart can be displayed a the bottom of the sidebar when creating a key named **visualisation** in the metadata array, filled with an associative array defining a title and a dataset for the chart.

```
$metadata["visualization"] = [
    "title" => "Title of the visualisation"
    "data" => [["category" => "cat1", "value" => 7],["category" => "cat2", "value" => 4],[...]]
4 ];
```



Figure 6: Pie chart at the bottom of the sidebar

#### 1.2.1 Sidebar template

The sidebar is opened with a click on a toolbar icon, and closed when clicked outside the sidebar. The javascript allows to switch between two states that are defined in the public CSS stylesheet: when opened, the classes open-toolbar and open-sidebar are added to the element of the sidebar in order to appear on the page.

```
$(document).ready(function(){
        // open the sidebar on a toolbar item
2
        $('.toolbarItem>span').click(function(){
3
            let id = $(this).attr('id');
5
            $("#sidebar").attr("isOpen", "true");
6
            switchSidebar();
            let sideContent = "side-"+id;
8
            $('.backgroundSidebar').hide();
9
            $('#'+sideContent).show();
10
       }):
11
12
13
        // close the sidebar when clicked outside the side bar
        $(document).click(function (e) {
14
            let thatTarget = $(event.target);
            // if the clicked target is not a child of sidebar AND sidebar is open
16
            if (!thatTarget.closest('#sidebar').length && $("#sidebar").attr('isOpen') === "true"){
17
                $("#sidebar").attr("isOpen", "false");
18
                switchSidebar();
19
20
        });
21
22
        function switchSidebar() {
23
            if ($("#sidebar").attr("isOpen") === "false") {
24
                $("#sideBorder, #toolbar").removeClass("open-toolbar");
25
                $("#innerSidebar").removeClass("open-sidebar");
26
            } else {
27
28
                $("#sideBorder, #toolbar").addClass("open-toolbar");
                $("#innerSidebar").addClass("open-sidebar");
29
            }
30
       }
31
32 });
```

### 1.3 Search interface

The search page serves for now two purposes:

- allowing the user to perform full-text queries, only on the entities work, primary source and original item,
- displaying the related items when clicking on a magnifier in the sidebar of a entity record.

The queries are performed on the ElasticSearch database through an AJAX call: TODO when launching in production, the requested server (from localhost to dishas.obspm) will change. The variable to be modified to make this change is located in the myElastic Search.js:

```
function generateUrl(query="", index="", from = 0, size = 10000, server="localhost:9200", http="
http") { ... }
```

The retrieved results from this call are then formatted to be displayed in a DataTable thanks to the TAMASListTableTemplate objects. Those templated are defined with the getPublicObjectList() in the entity repositories.

#### 1.3.1 Data structure: TAMASListTableTemplate

The templates defines for each field (i.e. column) of an entity how the information is going to be presented inside the DataTable. For instance, the template of a work title will defined that the text is going to be in *italic*, redirect to the page of the concerned work and that the string "Unknown title" will be displayed if the information is missing.

The getPublicObjectList() is defined as follows:

```
public function getPublicObjectList()
2
       {
           $fieldList = [
3
               new TAMASListTableTemplate(
4
                    'name of the key where the information in the array of result will be located',
                    'Column title for this field',
6
                   ['class'=>['array of CSS classes to style the text'],
                     path' => 'defined if a the text is a link',
8
                    'id' => 'name of the key where the id in the results is located'],
9
                    'unknown' => 'text to display if the information is missing',
10
11
                    'fields needed to display this field, correspond to the `_sources` in a
       ElasticSearch query
           )];
13
           return $fieldList;
14
       }
```

Each column needs its template, each entity combining between 5 and 10 templates. A template object can be defined with a certain number of properties :

- Name: provides the location in an array where DataTable will find the information to display
- Title: corresponds to the column label associated with the information
- Properties: defines how the cell content will be formatted:

- class (will surround the text in a <span class=" "></span>):
  - \* *list*: to indicate that multiple values can be displayed in the same cell
  - \* number: in order to align the text to the right
  - \* title-italic : to style the text of the cell in italic
- path + id :
  - \* path: routing path to generate a link
  - \* id: location of the id in the result object
- Source: defines which fields will appear in the elasticsearch response corresponding to the fields that are added to the array associated with the key "source" in the query (multiple fields can be added for a single column with "+")

```
// Field "Work" of an original item defining how the work titles will appear
new TAMASListTableTemplate(
    'work',
    'Work',
    ['class' => ['title-italic'], 'path' => 'tamas_astro_viewWork', 'id' => 'work.id'],
    '', // ifOnly is not used in the public interface
    'work.default_title+work.id'
)
```

# 1.3.2 Specific functions

The functions and variables used to create the search interface are located in several files:

- publicResult.html.twig: twig template for the result page
- myElasticSearch.js: functions to build queries, to retrieve data from response or generate URL
- myDataTable.js: functions related to DataTables
- mainJavascript : utility functions

The main functions help:

• to retrieve results from ElasticSearch

```
1
2
   * This function takes a response from an ajax call to elasticsearch
  * and returns an array containing all the results of this query
3
   * Oparam queryResponse : object
   * @return {Array}
6
   function retrieveResults(queryResponse) {
8
    if (typeof queryResponse.hits.hits !== 'undefined') {
9
10
           let data = queryResponse.hits.hits; // data is an array of results, but only the value of
        the key "_source" is needed
           let results = [];
11
12
13
           $.each(data, function (key, value) {
14
              results.push(value._source);
15
16
17
           return results;
       }
18
19 }
```

• to **format those results** (using the properties defined in the TAMASListTableTem plate)

```
1 /**
 2
      * to either return the information associated with a field
       * or return a tag indicating missing information
 3
       * The properties will defined how the cell content is formatted.
 4
 6
       * Oparam text : result values to display inside an array (even if there is only 1 value)
       * @param properties : object defined in the template object list (getPublicObjectList)
      * @param result : object containing the results send by Elasticsearch
       * Oreturns string
 9
10
      function textDisplay (text, properties=[], result={}){
11
              let classes = "":
12
13
               \textbf{if (isDefined(properties.class))} \{ \ \textit{// putting all classes in the same string} \\
14
                      for (let i = 0; i < properties.class.length; i++){</pre>
                             let className = properties.class[i];
                             classes = classes + className;
                             classes = i < properties.class.length ? classes + " " : "";</pre>
17
                      }
18
19
              }
20
              if (isDefined(text)){
21
22
                      if (isDefined(properties.path)){
                             let id = [selectNodeOfObject(properties.id, result)];
                             // selectNodeOfObject will select the id in the result if there is only one id to
              find,
                              // unlike when the cell is supposed to contain a list
25
                             if (isDefined(properties.class) && properties.class.includes("list")){
                                     // if the cell is supposed to contain a list of links
// the "text" array looks like : ["text, id, "text", id, ...]
27
28
                                     let texts = [];
29
                                     id = [];
30
31
                                     for (let j = 0; j < text.length; j += 2){
                                            texts.push(text[j]);
32
33
                                            id.push(text[j+1]);
34
                                     text = texts; // now it looks like ["text", "text", ...]
35
36
37
                             let linkText = [];
                             for (i = 0; i < text.length; i++){</pre>
38
                                     linkText.push(`<a href="${generateRoute(properties.path, id[i])}">${text[i]}</a</pre>
39
              >`);
40
                             text = linkText;
41
                      }
42
43
                      let cellContent = "";
                      let cellSummary = "";
45
                      for (i = 0; i < text.length; i++){</pre>
46
                             if (i === 0){
47
                                     \verb|cellContent| = \verb|classes|!== "" ? `< span class="${classes}">${text[i]}</span>` : `${figure | span | sp
48
               text[i]}`;
                             } else {
49
50
                                     cellSummary = cellSummary + `<span class="${classes}">${text[i]}</span>`;
                                     cellSummary = i < text.length ? cellSummary + "<br/>" : "";
                             }
54
                      if (text.length > 1){ // if there is multiple data to display, put it in a summary
                             let Nrecord = text.length > 2 ? "s" : "";
55
56
                             let summary = `<summary class="mainContent">
                                                                                  ${text.length-1} <span style="font-variant: small-caps">
              more record${Nrecord} </span>
                                                                                  <span style="font-size: 10px" ></span>
                                                                          </summary>`;
59
                             cellContent = `${cellContent}<details>${summary}${cellSummary}</details>`;
60
                      }
61
62
                      return cellContent;
              } else { // if the key doesn't exist in the array of results => missing information
63
                      if (isDefined(properties.unknown)){
64
65
                             return `<span class='noInfo'>${properties.unknown}</span>`;
66
```

```
67 return "<span class='noInfo'>No information provided</span>";
68 }
69 }
```

### • to display those results in a DataTable

```
1
   * This function generates an entire Datatable of results retrieved from a query to elasticsearch
2
   * on the given index for the filters given as parameter query
3
   * it generates by default a query of a size 10000, from 0
6
7
   * Oparam index string : label of an entity (ex : "primary_source")
   * Oparam query object : the filters of the query (ex: {"match":{"id":"5"}})
8
                           => the value associated with the key "query" in the query language of
9
    * Oparam queryTitle string: title detailing the query in natural language (EX => "All original
10
        items kept in the British Library")
    st Oparam queryTerm string : terms used to filter the results
   * Operam from int : the number of results from which the query starts
12
   st @param size int : number of results wanted in the response
13
14
   * Oparam generateHeader bool : defines if the header is generated or not
   * @return url : url of the query
16
   function generateResultTable(index, query, queryTitle="", queryTerm="", from=0, size=10000,
17
        generateHeader=true) {
        let fieldList = fieldLists[index];
18
        let dataStructure = generateDataStructure(fieldList);
19
20
        let sourceFields = generateSources(fieldList, true);
21
        // generates columns labels
22
23
        generateColumnHeader("results", fieldList)
24
        // generates URL in order to make an ajax call
25
        let url = generateUrl(query, index, from, size);
26
27
28
        // defining the function formatting the response of an elasticsearch ajax call
29
           into an array of results ready to be displayed by DataTable
        let formatData = function (queryResponse){
30
            let results = retrieveResults(queryResponse);
31
            for (let result of results){
32
                let i = 0:
33
                for (let field of fieldList){
                    \label{thm:continuous} // field.name is the key where <code>DataTable</code> is going to search for the value to fill
35
         the cells of one specific column
                    // textDisplay() returns the value that is going to be displayed in the cell :
                             - the text correctly formatted (according to the field.properties)
37
                    //
                            - OR no information provided (if there is no value in the result array)
38
                    // selectNodeOfObject() returns the value of the node in the array of result
39
                    /\!/\ corresponding\ to\ string\ given\ as\ first\ argument
40
                    result[field.name] = textDisplay(selectNodeOfObject(sourceFields[i], result,
41
        field.properties), field.properties, result);
42
                    i++;
                }
43
            7
44
            return results;
45
46
47
48
        if (generateHeader){
            // generates a header for the current query
49
50
            generateSearchHeader(index, queryTitle, queryTerm);
51
        let table = $('#results').DataTable({
53
            "ajax": {
54
                "url": url, // url on which the query is done
                cache: true, // mandatory in order to send the query without wildly added parameters
56
                "dataSrc": formatData // variable containing the function formatting the results in
        order to fill the DataTable
```

```
"columns": dataStructure, // specify where DataTable will find information associated with each fields

60 });

61 return url;

62 }
```

# 1.4 Bread crumbs and table editions

#### 1.4.1 Bread crumbs

The breadcrumbs allows the user to find his way around the front office, it indicates at which level of the site hierarchy they are located. The javascript code to generate them takes as argument the name of the current node, i.e. the name of the page, and it reconstructs the page tree structure to get there.

```
// define an array to contain the dependance tree of the current page
   let nodeTree = [];
   nodeTree.push(currentNode);
3
   let node = currentNode;
   for (nav of nodeTree){
6
       if (navigation[nav]) { // navigation contains all the nodes associated with their parent node
8
           nodeTree.push(navigation[nav]);
9
10
   }
11
12
   if (!(nodeTree.length \leq 1)){
       // reverse the order of the array to put the greater parent first
13
       nodeTree.reverse();
14
16
        // create a breadcrumb for each node of the nodeTree object
       for (let 1 = 0; 1 < nodeTree.length ; 1++){</pre>
17
            node = nodeTree[1];
18
19
            // set the pictogram image of the current node
           let picto = "{{ asset('img/pictograms/'~'INTERFACENAME'~'.png') }}";
20
21
           picto = picto.replace("INTERFACENAME", node);
22
            if (properties[node]["path"] !== ""){
23
24
                // generate a route for the current node
                let route = Routing.generate(properties[node]["path"]);
25
            }
26
27
            $(".breadcrumb-icons").append(`<div class="col-md-1 picto-bundle">
2.8
                                              <a href="${route}" title="${properties[node]["hover"]}">
29
                                                  <div class="picto-background ${currentNode}">
30
                                                      <img class="picto-size"</pre>
31
                                                           src="${picto}"
                                                           alt="${properties[node]["title"]} pictogram"
33
                                                  </div>
                                             </a>
35
                                         </div>
36
                                         <div class="col-md-1 chevron">
37
                                             <span class="glyphicon glyphicon-chevron-right"></span>
38
39
                                         </div>`);
       }
40
41 }
```

#### 1.4.2 Related table editions

The relation of the edited texts and the original texts are modelled in a graph structure in order to limit aberration and loops (preventing an edition to be based on an edition that is itself based upon this edition), and to display graph visualisations for the editions. With the

aim of gathering all the editions that were based on one particular original item, including the *indirect* ones (type B editions), it is necessary to use the graph structure.

# DISHAS/src/TAMAS/AstroBundle/Repository/OriginalTextRepository.php

```
2 * getAllEditedTexts
3
4
   * this method returns an array of the editions of an original item, including indirect editions (
5
   * Qparam \TAMAS\AstroBundle\Entity\OriginalText $originalText
6
   * @return array
9
   public function getAllEditedTexts(\TAMAS\AstroBundle\Entity\OriginalText $originalText)
10 {
11
      if (! $originalText)
         return [];
12
13
      $editedTextRepo = $this->getEntityManager()
14
         ->getRepository(\TAMAS\AstroBundle\Entity\EditedText::class);
15
16
       $dependanceTree = $editedTextRepo->getDependanceTree();
17
       $graph = new \TAMAS\AstroBundle\DISHASToolbox\Graph\TAMASGraph();
18
19
       $graph->loadJSONTree($dependanceTree);
20
      $origItemId = $originalText->getId();
21
22
      $originalId = 'o' . $origItemId; // the id of the original item is preceded by "o" in the
23
       graph tree
       $original = $graph->getNode($originalId); // find the node corresponding
      $editedTexts = $original->getAncestors(); // find the edited texts related to this node
25
26
       $editions = [];
27
      foreach ($editedTexts as $editedText){
28
          // fill the array with all the edited texts corresponding to the id
29
          $editions[] = $editedTextRepo->findBy(['id' => str_replace("e", "", $editedText->getLabel()
30
       )])[0];
32
33
      return $editions;
34 }
```