

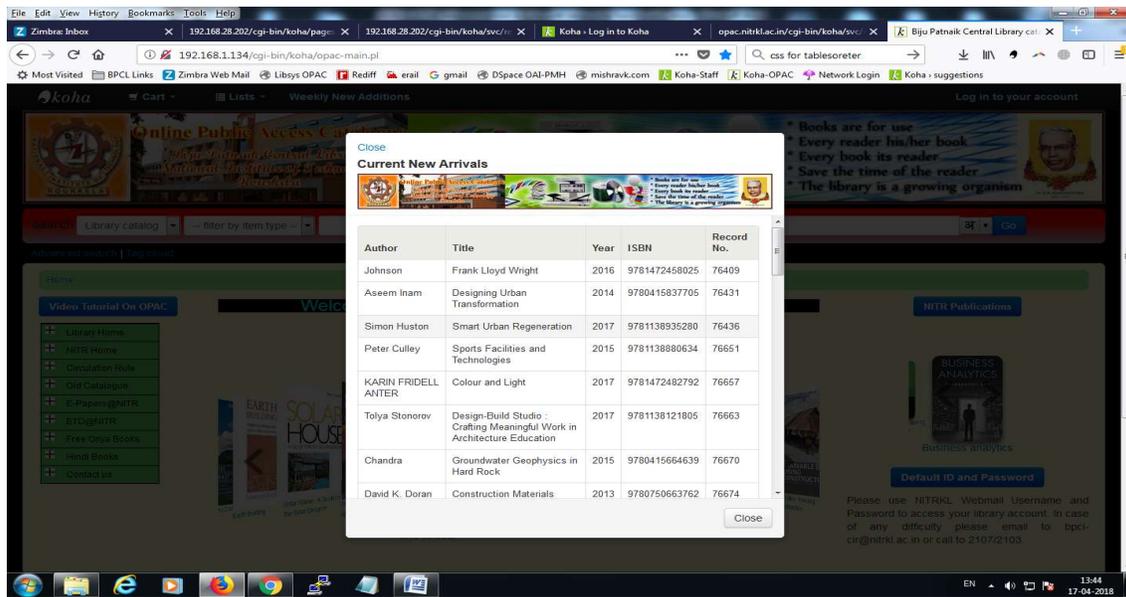
Koha JSON public Report to HTML table conversion with table sorter functionality

Dear All,

Koha provide facility to make your own reports through staff client and publish it publically so that it can be viewed by anyone through web browser (URL).

We have created new arrivals public report and displayed in html table format too but its limitation is pop-up and embedded in the Koha main OPAC home page as given in the below screenshot and same report can be also viewed from following link with JSON format which is not very much friendly.

<http://opac.nitrkl.ac.in/cgi-bin/koha/svc/report?id=44>



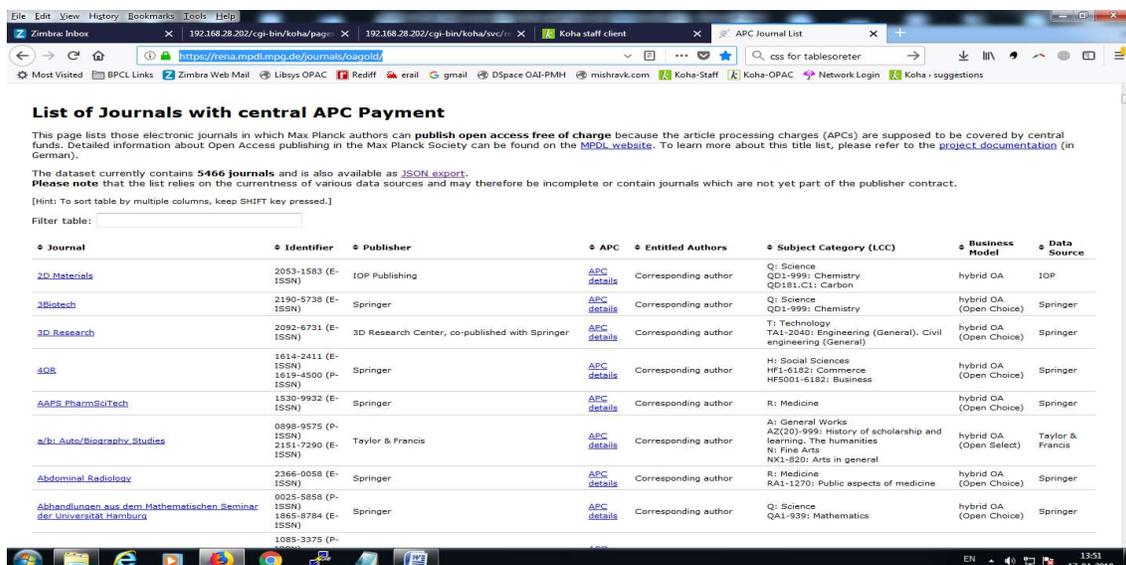
The screenshot shows the Koha OPAC home page with a pop-up window titled 'Current New Arrivals'. The window displays a table with the following data:

Author	Title	Year	ISBN	Record No.
Johnson	Frank Lloyd Wright	2016	9781472458025	76409
Assem Inam	Designing Urban Transformation	2014	9780415837705	76431
Simon Huston	Smart Urban Regeneration	2017	9781138935280	76436
Peter Cuitley	Sports Facilities and Technologies	2015	9781138880634	76651
KARIN FRIDELL ANTER	Colour and Light	2017	9781472482792	76657
Tolya Stonorov	Design-Build Studio : Crafting Meaningful Work in Architecture Education	2017	9781138121805	76663
Chandra	Groundwater Geophysics in Hard Rock	2015	9780415664639	76670
David K. Doran	Construction Materials	2013	9780750663762	76674

The requirement

We want to display the same report in HTML format but in other separate page i.e. not in Koha OPAC home page so that the entire report can be viewed and analyzed separately like following example:

<https://rena.mpgdl.mpg.de/journals/oagold/> .



The screenshot shows a web page titled 'List of Journals with central APC Payment'. The page contains a table with the following data:

Journal	Identifier	Publisher	APC	Entitled Authors	Subject Category (LCC)	Business Model	Data Source
2D_Materials	2053-1583 (E-ISSN)	IOP Publishing	APC details	Corresponding author	Q: Science QD1-999: Chemistry QD181.C31: Carbon	hybrid OA (Open Choice)	IOP
3Biotech	2190-8738 (E-ISSN)	Springer	APC details	Corresponding author	Q: Science QD1-999: Chemistry	hybrid OA (Open Choice)	Springer
3D_Research	2092-6731 (E-ISSN)	3D Research Center, co-published with Springer	APC details	Corresponding author	T: Technology TA1-2040: Engineering (General), Civil engineering (General)	hybrid OA (Open Choice)	Springer
4QR	1614-2411 (E-ISSN) 1619-4500 (P-ISSN)	Springer	APC details	Corresponding author	H: Social Sciences HF1-6182: Commerce HF5001-6182: Business	hybrid OA (Open Choice)	Springer
AAPS_PharmSciTech	1530-9932 (E-ISSN)	Springer	APC details	Corresponding author	R: Medicine	hybrid OA (Open Choice)	Springer
a/b: Auto/Biography_Studies	0898-9575 (P-ISSN) 2151-7260 (E-ISSN)	Taylor & Francis	APC details	Corresponding author	A: General Works AZ(20)-999: History of scholarship and learning, The humanities N: Fine Arts NK1-920: Arts in general	hybrid OA (Open Select)	Taylor & Francis
Abdominal_Radiology	2366-0058 (E-ISSN)	Springer	APC details	Corresponding author	R: Medicine RA1-1270: Public aspects of medicine	hybrid OA (Open Choice)	Springer
Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg	0025-5858 (P-ISSN) 1865-8784 (E-ISSN)	Springer	APC details	Corresponding author	Q: Science QA1-939: Mathematics	hybrid OA (Open Choice)	Springer
1085-3375 (P-ISSN)	1085-3375 (P-ISSN)						

Step by step procedure to display public report in dynamic HTML table format with tableorter

Step 1

- **Make a copy of opac-main.pl page and rename as pages.pl by following command:**

```
cp /usr/share/koha/opac/cgi-bin/opac/opac-main.pl /usr/share/koha/opac/cgi-bin/opac/pages.pl
```

- **Edit pages.pl in an editor and change the code at approx line 34**

```
“template_name => "opac-main.tmpl" to template_name => "pages.tt"
```

- **At approx line number 65 after below code:**

```
$template->param(
    koha_news      => $all_koha_news,
    koha_news_count => $koha_news_count,
    display_daily_quote => C4::Context->preference('QuoteOfTheDay'),
    daily_quote     => $quote,
);
```

Insert the following code:

```
my $page = "page_" . $input->param('p');      # go for "p" value in URL and do the concatenation
my $preference = C4::Context->preference($page); # Go for preference
$template->{VARS}->{'page_test'} = $preference; # pass variable to template pages.tt
```

- **Give the Web server user execution permissions to pages.pl file with following command:**

```
$chmod 755 pages.pl
```

Step 2

- **Copy and edit the bootstrap theme template i.e. the present home page of OPAC to work like your separate webpage.**

```
Copy /usr/share/koha/opac/htdocs/opac-tmpl/bootstrap/en/modules/opac-main.tt to
/usr/share/koha/opac/htdocs/opac-tmpl/bootstrap/en/modules/pages.tt
```

- **At approx line 61 change the following code :**

```
[% IF ( OpacMainUserBlock ) %]<div id="opacmainuserblock">[% OpacMainUserBlock %]</div>[% END %]
```

To the following code and remove all the code above and below this code:

```
[% IF ( page_test ) %]<div id="opacmainuserblock">[% page_test %]</div>[% END %]
```

- **Remove all the code from the pages.tt file except the following line to have blank page i.e. not right navigation, left navigation, header area etc. like Koha main OPAC home page.**

```
[% IF ( page_test ) %]<div id="opacmainuserblock">[% page_test %]</div>[% END %]
```

Step 3

- Now we can make our page called “page_test” with the help of Koha functionality from staff client.

Home › Administration › System Preferences > Local Use and add a New Preference called "page_test"

- Add the following under each head

- **Explanation:** test page for pages tiny cms
- **Variable:** page_test
- **Value:** This is the field where we have to use the HTML/CSS/jQuery etc. to display our dynamic public report with HTML table format. I have used the following code to display our public report (<http://opac.nitrkl.ac.in/cgi-bin/koha/svc/report?id=44>):

```
<!-- HTML Current new arrivals -->
```

```
<head>
```

```
<center><h3>Current New Arrivals</h3></center>
```

This is list of books just arrived in the library and will be kept in shelving area after technical processing. You may contact to library acquisition section for fast processing of the below books and consultation within the library till final technical processing.

```
<link rel="stylesheet" href="/opac-tmpl/bootstrap/js/jquery.tablesorter/themes/blue/style.css" type="text/css" media="print, projection, screen" />
```

```
<script type="text/javascript" src="/opac-tmpl/bootstrap/js/jquery.tablesorter/jquery-latest.js"></script>
```

```
<script type="text/javascript" src="/opac-tmpl/bootstrap/js/jquery.tablesorter/jquery.tablesorter.js"></script>
```

```
<script type="text/javascript" src="/opac-tmpl/bootstrap/js/jquery.tablesorter/jquery.tablesorter.min.js"></script>
```

```
<script type="text/javascript" src="/opac-tmpl/bootstrap/js/jquery.tablesorter/jquery.metadata.js"></script>
```

```
</head>
```

```
<center><table id="custom_table" class="tablesorter" cellspacing="1" border="1"></center>
```

```
<thead>
```

```
<tr>
```

```
<th>Author</th>
```

```
<th>Title</th>
```

```
<th>Year</th>
```

```
<th>ISBN</th>
```

```
<th>Record No.</th>
```

```

</tr>

</thead>

<tbody>

</tbody>

</table>

<!-- HTML Current new arrivals ends -->

<!-- JQuery for display of public report-->

<script>

$(document).ready(function() {

    var data1;

    $.get( "/cgi-bin/koha/svc/report?id=44", function( data1 ) {

$.each(data1, function(index, value) {

// json is a record arr

var json = value;

var tr;

tr = $('<tr/>');

$.each(json, function(index, value) {

tr.append("<td>" + value + "</td>");

});

$('#custom_table').append(tr); // alert( index + ": " + value );

});

$("#custom_table").tablesorter();

$(function() {

sortMultiSortKey: 'altKey'

});

$(element).wrapInner('<a href="'+$(element).text()+'" target="_blank"></a>');

});

$("#custom_table td:nth-child(4)").each(function(index, element){

```

});

});

</script>

<!-- JQuery for display of public report end-->

- Click the TextArea link (or enter "TextArea" into the input field below it)
- variable options (last field): 80|50

Step 4

- Adding of table sorter functionality i.e. sorting columns in ascending/descending order. Download the table sorter from <http://tablesorter.com/docs/#Download> and after extracting the zip file paste the folder (jquery.tablesorter) at /usr/share/koha/opac/htdocs/opac-tmpl/bootstrap/js

The out-put of the above public report which was originally in JSON format (Left pic) has been now converted in dynamic HTML table format (Right pic):

The left screenshot shows a JSON array of book records. The right screenshot shows the same data rendered as a table with a 'table sorter' interface. Below the screenshots is a screenshot of the 'Current New Arrivals' page on the Koha library website, showing a table of book arrivals with columns for Author, Title, Year, ISBN, and Record No.

Author	Title	Year	ISBN	Record No.
Ali-Sakib Khan Pathan	Simulation Technologies in Networking and Communications	2017	9781138034174	75063
Ali Nazari and Jay Sanjayan	Handbook of Low Carbon Concrete	2016	9780128045244	75041
Andre L. Yandl and Adam Bowers	Elementary Point-Set Topology: A Transition to Advanced Mathematics	2016	9780486880349	75032
Ann M. Bisant	Cognitive Systems Engineering in Health Care	2014	9781488587960	75056
Arthur David Smider	Random Processes for Engineers: A Primer	2017	9781498799034	75086
Ashok Gupta, Denis Yan	Mineral Processing Design and Operations	2016	9780444635891	75019
Bakermans, Corien	Microbial Evolution Under Extreme Conditions	2015	9783110335084	75027
Branislav M. Notaros	Conceptual Electromagnetics	2017	9781498770668	75097
Clark, Nigel	Tall Buildings	2016	9781859466186	75062
Cole, Laurence	Biology of Life	2016	9780128068657	75025
Cuerner, Charles M.	Cells, Forces, and the Microenvironment	2015	9789614613361	75026
Deepak Utmachandani	Wireless MEMS Networks and Applications	2017	9780001004494	75076
Don Easterbrook	Evidence-Based Climate Science 2nd Edition	2016	9780128045886	75014
Fang Lin Luo and Hong Ye	Advanced DC/DC Converters, Second Edition	2016	9781498774901	75002
Fang, Hsai-Yang	Introduction to Environmental Geotechnology	2016	9781439837306	75036
Friedmann, Theodore	Advances in Genetics, Volume 96	2016	9780128096727	75031
Gerardo Ruiz Mercado and Heirberto Cabezas	Sustainability in the Design, Synthesis and Analysis of Chemical Engineering Processes	2016	9780128020326	75040
Ghaboussi, Jamshid	Nonlinear Computational Solid Mechanics	2017	9781498748120	75038
Goel, Sudha	Advances in Solid and Hazardous Waste Management	2017	9789381891292	75034
Grumescescu, Alexandru	Water Purification	2017	9780128043004	75050
Harry E. Martz	X-Ray Imaging: Fundamentals, Industrial Techniques and Applications	2016	9780849397721	75078
Hassan A. Yousef	Power System Load Frequency Control: Classical and Adaptive Fuzzy Approaches	2017	9781498745574	75094
Huanheng Ning	Unit and Ubiquitous Internet of Things	2013	9781468561663	75059
Ion Boldea and Syed A. Nasar	Electric Drives, Third Edition	2016	9781498748209	75092

NOTE: Kindly carefully examine the above html/css/jQuery code and make the changes as per your requirements. Please see the URL link parts and make the changes as per your locations of the file in the new page created.

References:

1. https://wiki.koha-community.org/wiki/Koha_as_a_CMS
2. <https://rena.mpd.l.mpg.de/journals/oagold/>
3. <http://tablesorter.com/docs/>
4. <http://mishravk.com/2017/05/coverflow-2/>
5. <http://blog.l2c2.co.in/index.php/tag/reports/>
- 6.