


A large orange shape, resembling a quarter-circle or a large arc, is positioned on the left side of the slide.

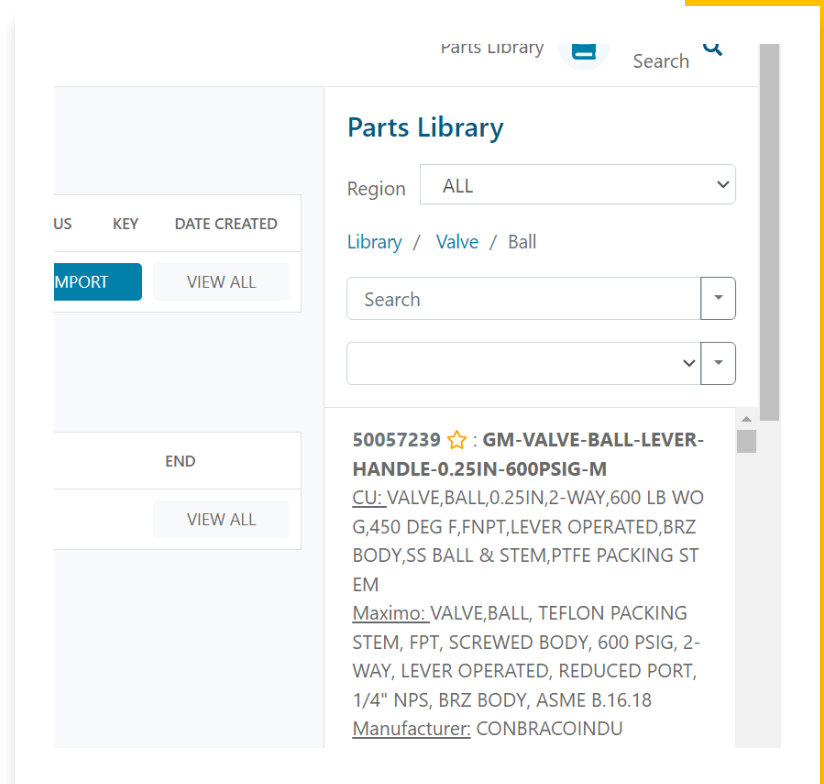
CADT -688

- Parts Library : Sort Options
 - Description: As a user, I will have access to a sort function in the Parts Library. This sort function will appear below the search box in order to sort search results.
 - Acceptance Criteria :
 - Requested sort criteria :
 - Alphabetical
 - Most Recently Updated
 - MRC Guaranteed in Stock : Yes
- 
- A yellow dashed line, composed of several short segments, curves upwards from the bottom right towards the center of the slide.

Analysis:

- So here the possible solution is like we have to do frontend changes as well as backend changes

So in the frontend under the parts Library search box we have to create the select box with all options like : CU description, Maximo, Recently update, Item number so based on the user select the record we can sort the result in ascending & descending order.



- So it will generate an design like there will be an dic which contains the different selections and having an sort option associated with it like ascending sorting or descending sorting as shown below:

Parts Library

Region

Library / Valve / Ball

50057239 ☆ : GM-VALVE-BALL-LEVER-HANDLE-0.25IN-600PSIG-M

CU: VALVE,BALL,0.25IN,2-WAY,600 LB WO G,450 DEG F,FNPT,LEVER OPERATED,BRZ BODY,SS BALL & STEM,PTFE PACKING STEM

Maximo: VALVE,BALL, TEFLON PACKING STEM, FPT, SCREWED BODY, 600 PSIG, 2-WAY, LEVER OPERATED, REDUCED PORT, 1/4" NPS, BRZ BODY, ASME B.16.18

Manufacturer: CONBRACOINDU

- Now in 2nd part is that we have to get the data from the backend database using backend controller rest api, get the data from there and print it in console using `logger.debug()` so the data which is printing on the console that we have to sort coding part as shown below:

So here what I have did like I have to pass the field has using `@RequestParam` in order to bind the data inside the controller for an particular field.

```
168 167
169 168
170 169
171 - ,@RequestParam String regionCode,@RequestParam String sortField,@RequestParam String sortOrder, Ht
172 -
173 -
170 + ,@RequestParam String regionCode, HttpSession session ) {
171 +
174 172
175 173
176 174
```

- So here in the backend controller I passed sortOrder & sortField in the backend controller so based on the value which we pass from the frontend so it will bind the data and after using comparator I get the data from backend and sort that data using comparator and after that I print the data in console code as shown below:

```
246 240          ehubStructuredClassificationService.getById(Integer.parseInt(parentId)).getCat
247 241          model.addAttribute("cat12", cat12);
248 242      }
249 243  }
250 -
251 -
252 -      if(sortField.equalsIgnoreCase("Recentupdate") && sortOrder.equalsIgnoreCase("asc")) {
253 -          Comparator<EhubItemCUDTO> comp54=Comparator.comparing(EhubItemCUDTO::getUpdateDttm, Co
254 -          itemCUList.sort(comp54);
255 -          itemCUList.forEach(item -> logger.debug(item.getUpdateDttm()));
256 -      }
257 -
258 -      else if(sortField.equalsIgnoreCase("Recentupdate") && sortOrder.equalsIgnoreCase("desc")) {
259 -          Comparator<EhubItemCUDTO> comp54=Comparator.comparing(EhubItemCUDTO::getUpdateDttm, Co
260 -          itemCUList.sort(comp54);
261 -          itemCUList.forEach(item -> logger.debug(item.getUpdateDttm()));
262 -      }
263 -
264 -
265 -      else if(sortField.equalsIgnoreCase("Maximo") && sortOrder.equalsIgnoreCase("asc")) {
266 -          Comparator<EhubItemCUDTO> comp=Comparator.comparing(EhubItemCUDTO::getItemDesc, Compar
267 -          itemCUList.sort(comp);
268 -
269 -
270 -      }
271 -      else if(sortField.equalsIgnoreCase("Maximo") && sortOrder.equalsIgnoreCase("desc")) {
272 -          Comparator<EhubItemCUDTO> comp=Comparator.comparing(EhubItemCUDTO::getItemDesc, Compar
```

- 2nd part for the same code goes here as shown below:

```
262 -
263 -
264 -
265 - & sortOrder.equalsIgnoreCase("asc")) {
266 -     comparing(EhubItemCUDTO::getItemDesc, Comparator.nullsFirst(String::compareTo));
267 -
268 -
269 -
270 -
271 - & sortOrder.equalsIgnoreCase("desc")) {
272 -     comparing(EhubItemCUDTO::getItemDesc, Comparator.nullsFirst(String::compareTo).reversed());
273 -
274 -     em.getItemDesc());
275 -
276 -
277 -     .getItemDesc());
278 -     er") && sortOrder.equalsIgnoreCase("asc")) {
279 -         r.comparing(EhubItemCUDTO::getManufactureName, Comparator.nullsFirst(String::compareTo));
280 -
281 -         em.getManufactureName());
282 -
283 -
284 -     er") && sortOrder.equalsIgnoreCase("desc")) {
285 -         r.comparing(EhubItemCUDTO::getManufactureName, Comparator.nullsFirst(String::compareTo).reversed())
286 -
287 -         em.getManufactureName());
288 -
```

- Now we move to frontend code so now we have to implement the functionality of onclick of button how the ascending & descending will treat. SO now we need to get the value in frontend code the field which are mention in the backend controller function like : parentId, strucClassId, sortOrder, Region, sortField and then we have to pass the data using an AJAX call and if it is in success then we have load the sorting data.

```

46 -
47 - $("#asc").off('click').on('click' , function(){
48 -
49 -     console.log("Button is clicked");
50 -     var tokens= ($('#a.lvl2link').attr("id")).split("_");
51 -     var parentId=tokens[1];
52 -     console.log("ParentId:"+parentId);
53 -     var strucClassId=tokens[2];
54 -     //console.log("StrucClassId:"+strucClassId);
55 -     var strucClassId=$('#.cu_library_breadcrumb_3').attr("id");
56 -     console.log("StrucClassId:"+strucClassId);
57 -
58 -     parentId = parentId == "null" ? "LABOR" : parentId == "-1" ? "Favorite" : parentId
59 -     parentId = parentId == "-100" ? "LABOR" : parentId == "-200" ? "ASSET" : parentId
60 -
61 -     var regionCode= ($('#lib-region').val());
62 -     regionCode = regionCode? regionCode: 'all';
63 -     console.log("Region code:"+regionCode);
64 -
65 -     var sortField=$('#sortField').val();
66 -
67 -     console.log("Sortfeild"+sortField);
68 - 46
69 -     var sortOrder=$('#asc').val();
70 -
71 -     //console.log("SortOrder"+sortOrder);
72 -
73 -     $.ajax({
74 -         'async': false,
75 -         'url': "sort"

```



```
$.ajax({
    'async': false,
    'type': "GET",
    'url': "getCuDisplayListLevel_3",
    'data': {"parentId" : parentId ,"strucClassId" : strucClassId, "regionCode" :
    'success': function (data) {

        showSpinner();
        $.get("getCuDisplayListLevel_3",{ 'parentId': (parentId), 'strucClassId':
        $("#createCuDisplayL2").html(data);
        hideSpinner();
        });

    },
    error: function (error) {

        console.log(error);

    }
    });
});
```

```
69 -
70 -
71 -
72 -
73 -
74 -
75 -
76 -
77 - strucClassId, "regionCode" : regionCode , "sortField" : sortField, "sortOrder" : "asc"},
78 -
79 -
80 -
81 -
82 - (parentId), 'strucClassId': (strucClassId), 'regionCode':(regionCode) ,'sortField' : (sortField)
83 -
84 -
85 -
86 -
87 -
88 -
89 -
90 -
91 -
92 -
93 -
94 -
95 -
96 -
```

Q*

```
70 -
71 -
72 -
73 -
74 -
75 -
76 -
77 - :Field, "sortOrder" : "asc"},
78 -
79 -
80 -
81 -
82 - :regionCode) , 'sortField' : (sortField) , 'sortOrder' : "asc" }, function(data){
83 -
84 -
85 -
86 -
87 -
88 -
89 -
90 -
91 -
92 -
93 -
94 -
95 -
96 -
97 -
```

- Using the same we have to write the code similar to ascending for descending on click also.

Result:So finally what we have did till yet now we have to check the implementation inside the UI as shown below:

So here the result is showing like I have sort the Itemnumber in descending order so I get an this result as shown:

SUPPORTMY ACCOUNTLOGOUT

Search

ItemNum

START

END

VIEW ALL

50132196 : GO-VALVE-BALL-12IN-MDPE-BFXBF-M

CU:

 VALVE, BALL, FULL PORT, MDPE, BF x BF, 12IN IPS, 80psig

Manufacturer:

 MTDEASONCOIN

Model:

 BMAXPE12000-17

MFG Part#:

 null

MRC In Stock : No

50132196

Maximo:

 VALVE,BALL, PE 4710 BODY, 11.38" ID, 2" SQ NUT GEAR OPERATED, FULL PORT STD PKG/1 BF SDR 17 PE4710 ENDS, NO BY-PASS, 140 DEG F, BUTT FUSION, GEAR OPERATED, 12" IPS, SDR 17, 64 LB, BUNA-N SEAL, FULL PORT, 2-WAY

Manufacturer:

 MTDEASONCOIN

Model:

 BMAXPE12000-17

MFG Part#:

 null

MRC In Stock : No

- So here when I am going to sort the same result in ascending order then we are getting different result as shown below:

VIEW ALL	Search	▼
	ItemNum	▼ ▼
END	1415978 : GM-VALVE-BALL-LEVER-HANDLE-2IN-600PSIG-M <u>CU:</u> VALVE,BALL, 2IN, 600 PSIG WOG, FULL PORT, NPT, MANUAL OPERATED, BRASS BODY, NICKEL PLTD BRASS BALL, W/ LEVER <u>Manufacturer:</u> FNWVALVE <u>Model:</u> FNW420K, 2" FNW420THKK <u>MFG Part#:</u> null MRC In Stock : No	
VIEW ALL	1415978 <u>Maximo:</u> VALVE,BALL, 2" NPS, 600 PSIG, NICKEL PLTD BRASS BALL, W/ LEVER, FULL PORT, NPT, MANUAL OPERATED, BRASS BODY, THD BODY <u>Manufacturer:</u> FNWVALVE <u>Model:</u> FNW420K, 2" FNW420THKK <u>MFG Part#:</u> null	