

Lab Guide

CreatorCon17 Hyderabad: Advanced Service Portal Widget techniques

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Lab instance: http://clabs.link/advanced-widget-hyd

Default Login / Password:

admin / hyd-cc17

itil / hyd-cc17

employee / hyd-cc17

This
Page
Intentionally
Left
Blank

In this lab we will create a list widget and then we will modify it to load data client side.

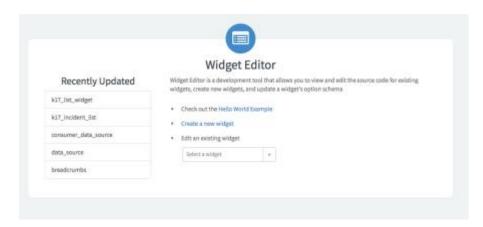
Lab 1.1 Create list widget

Log on to Your Training Instance.

- 1. Navigate to the unique instance URL provided to you.
- 2. Log on with provided credentials. Include periods at the end of your steps. Exclude the period if a step ends with text the student needs to copy and paste to prevent the period from being grabbed accidentally.

Create List Widget

- 1. Navigate to Service Portal > Service Portal Configuration.
- 2. Select Widget Editor
- 3. Select Create a new widget



4. Enter the following information:

Widget Name: k17_list_widgetWidget ID: k17_list_widgetCreate Test Page: checked

Page Id: k17_list_widget

- 5. Click the **Submit** button.
- 6. Your Screen should look like this



Enter Widget Information

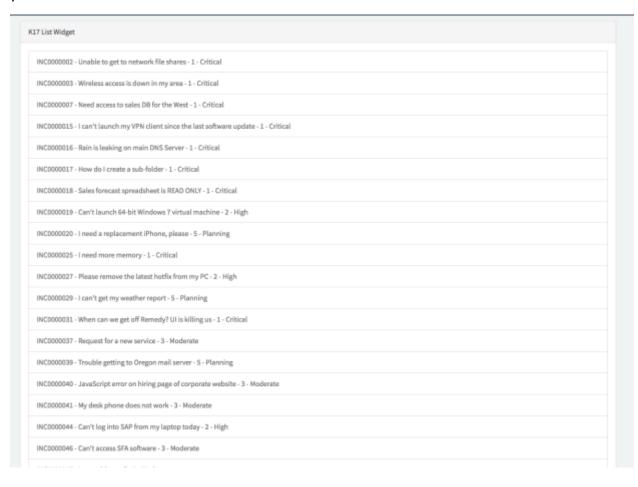
1. Enter the following information in the Server Script Window:

```
(function () {
     /* populatethe 'data' object */
     /* e.g., data table = $sp. get Value('table'); */
     // define the variable to hdd our list
     datalist = [];
     // Query the table
     var gr = new Gi de Record('i noi dent');
     gr. add Query('active, true);
     gr. query()
     while (gr. next()) {
              //I oad values into object
              var record obj = \{ \} ;
              record_obj.number = gr.number.get D spl ay Val ue();
              record_obj.short_description = gr.short_description.get Dspl ay Value();
              record obj. priority = gr. priority. get D spl ay Value();
              record_obj.category = gr.category.get D spl ay Value();
              //add object to the list
              datalist.push(record obj);
})();
```

2. Enter the following information in the HTML template box

3. Click Save

4. Navigate to [your instance] .service-now.com/sp_config/?id=k17_list_widget and check your results



Load data client side

- 1. Navigate back to the widget editor
- 2. Modify the Server Script to look like this

```
(function() {
  /* populate the 'data' object */
  /* e.g., datatable = $sp. get Value('table'); */
     if(input){
              // define the variable to hold our list
              datalist =[];
              // Querythetable
   var gr = new GideRecord('indident');
   gr. add Query('active, true);
   gr. query()
   while (gr. next()) {
                       //I oad values into object
                       var record_obj ={};
                       record_obj. number = gr. number. get D spl ay Val ue();
                       record_obj. short_description = gr. short_description. get Dspl ay Value();
                       record_obj. pri ority = gr. pri ority. get D spl ay Val ue();
                       record obj. category = gr. category. get D spl ay Value();
    //add object to the list
                       dat a list. push(record_obj);
   }
})();
```

3. Enter the following information in the Client Script

```
function($scope) {
    /* widget controller */
    var c = t his;
    c. dat alload ng = true;

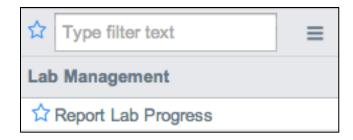
    $scope. server. updat e().t hen(function() {
        c. dat alload ng = f all se;
    })
}
```

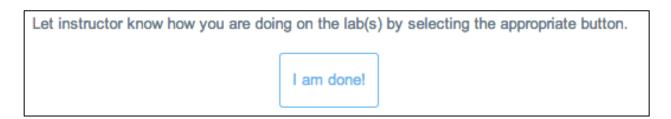
4. Modify the html template to look like this

- 5. Click Save
- 6. Navigate to [your instance] .service-now.com/sp_config/?id=k17_list_widget and check your results

Progress Report

1. Navigate to Lab Management> Report Lab Progress.





In this lab we will modify our list widget to make use of the REST API. Lab 2.1
REST API

Modify List Widget.

- 1. Navigate to the widget editor and open the k17_list_widget.
- 2. Modify the Server Script to look like this

```
(f uncti on() {
  /* popul at e t he ' dat a obj ect */
  /* e g, dat a t abl e = $sp. get Val ue('t abl e'); */
})();
```

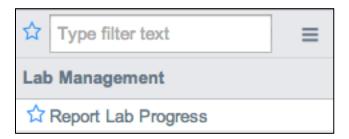
3. Modify the Client Script to look like this:

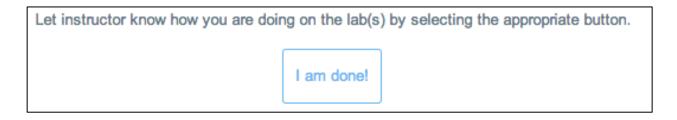
4. Click Save

5. Navigate to [your instance] .service-now.com/sp_config/?id=k17_list_widget and check your results

Progress Report

1. Navigate to Lab Management> Report Lab Progress.





In this lab we create 2 ng templates to be used by our widgets

Lab 3.1 NG Template

Create Templates.

- 1. Navigate to Service Portal > Widgets
- 2. Open the k17_list_widget.
- 3. Scroll to the bottom and select the Angular ng-templates tab
- 4. Click New
- 5. Enter the following information
 - ID: task-priority
 - Template:

{{item.number}} - {{item.short_description}} - {{item.priority}} ✓ span>

- 6. Click Submit
- 7. Scroll to the bottom and select the Angular **ng-templates tab**
- 8. Click New

- 9. Enter the following information
 - ID: task-category
 - Template:

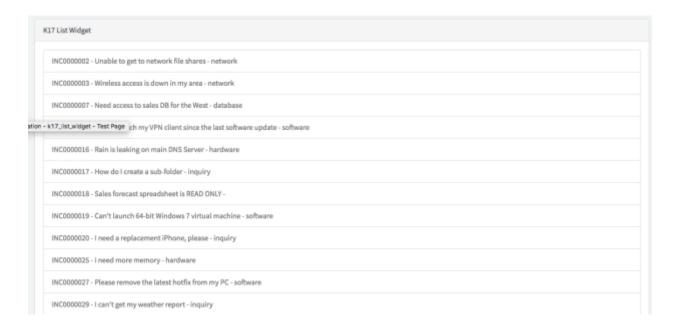
```
<span>{{item:number}} - {{item:short_description}} - {{item:category}} ✓ span>
```

10. Click **Submit**

Update List widget

- 1. Open the k17_list_widget using the widget editor
- 2. Modify the HTML template to look like this

- 3. Click Save
- 4. Navigate to [your instance] .service-now.com/sp_config/?id=k17_list_widget and check your results

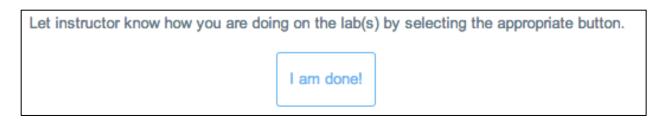


Progress Report

1. Navigate to Lab Management> Report Lab Progress.



2. Click I am done!



In this lab we will define options for our widget

Lab 4.1 Widget Options

Add out of box options

- 1. Navigate to Service Portal > Widgets
- 2. Open the k17_list_widget.
- 3. Click on the lock icon next the Fields field
- 4. Add the following fields:
 - Title
 - Bootstrap Color
- 5. Click Update

Modify list widget

- 1. Open the k17_list_widget using the widget editor.

 NOTE: If you had the editor open, refresh it before continuing.
- 2. Click on the icon in the top right corner
- 3. Select Edit Option Schema

4. Click on the icon in the top right corner on of the modal window



5. Enter the following information

Label: TableName: tableType: String

• Default Value: incident

6. Click on the icon in the top right corner on of the modal window

7. Enter the following information

• Label: Query

• Name: query

• Type:string

• Default Value: leave empty

8. Click on the icon in the top right corner on of the modal window

9. Enter the following information

• Label: Template

Name: template

• Type:string

Default Value: leave empty

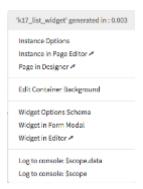
10. Click Save

11. Modify Client Script to look like this

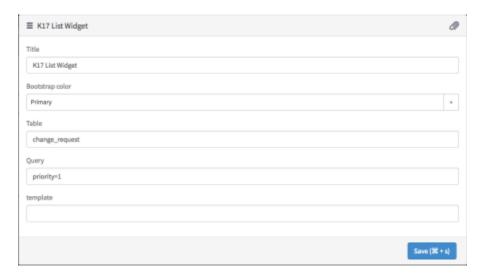
```
function($scope, $http) {
  /* widget controller */
  var c = t his,
      c. dataload ng = true;
      c. datable = c. options.table || "i noi dent";
      c. data query = c. options.template || "task-category";
      c. datatemplate = c. options.template || "task-category";
      $http.get('/api/nowtable' +c. datatable+'?sysparm_query=' +c. dataquery). success(function(response){
            c. dataload ng=false;
            c. datalist = response.result;
      })
}
```

12. Modify HTML Template to look like this

- 13. Click Save
- 14. Navigate to [your instance] .service-now.com/sp config/?id=k17 list widget
- 15. Press "Control" right click on top of your widget
- 16. Select Instance Options



17. Enter the following information



18. Click Save

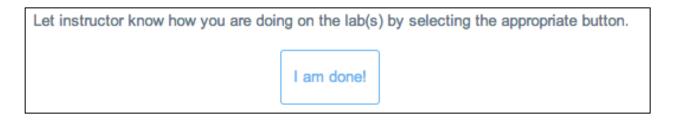
19. Check your results



Progress Report

1. Navigate to Lab Management> Report Lab Progress.





In this lab we will create a record watcher so our widget is automatically updated without having to refresh the page Lab 5.1 Record Watchers

Set up record watcher

- 1. Open the k17 list widget using the widget editor.
- 2. Modify the Client Script to look like this:

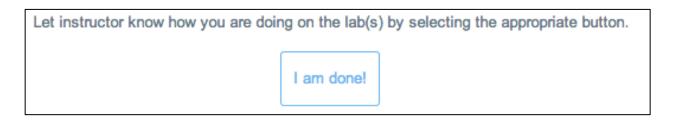
```
function($scope, $http, sn Record Wat cher) {
/* widget controller */
 varc=this;
     c. dat alloading = true;
     c. dat a t abl e = c. opti ons.t abl e || "i ndi dent";
     c. dat a query = c. opti ons. query | "";
     c. dat a templ at e = c. opti ons.templ at e || "task-cat egory";
     function get Data(){
     $http.get('/api/now'table' +c. datatable+' ?syspar m_query=' +c. data query). success(function(response){
              c. dat alloading=f all se;
              c. datalist = response.result;
     })
     get Data();
     sn Record Wat cher.i rit List (c dat a table, c dat a query);
     $scope. $on('record updated, function(name, data) {
              get Data();
     });
```

- 3. Click Save
- 4. Navigate to [your instance] .service-now.com/sp config/?id=k17 list widget
- 5. How Many Changes are displayed?
- 6. Open a new window and open a new critical priority change request.
- 7. Go back to your widget window, is the new change request now showing?

Progress Report

1. Navigate to Lab Management> Report Lab Progress.





In this lab we will modify our widget to boradcast an event and have another widget receive that event.

Lab 6.1 Broadcast events

Set up event

- 1. Open the k17 list widget using the widget editor.
- 2. Modify the Client Script to look like this:

```
function($scope, $http, sn Record Wat cher, $root Scope) {
 /* widget controller */
 varc=this;
     c. dat alloading = true;
     c. dat a t abl e = c. opti ons.t abl e || "i nd dent";
     c. dat a query = c. opti ons. query | | "";
     c. dat a templ at e = c. opti ons.templ at e || "task-cat egory";
     function get Data(){
     $http.get('/api/now'table' +c. datatable+'?sysparm_query='+c. dataquery). success(function(response){
              c. dat all oad ng=f all se;
              c. datalist = response.result;
              $r oot Scope. $br oadcast("K17Li st Wdget Updated", c. datalist);
     })
     get Data();
     sn Record Wat cher.i rit List (c dat a table, c dat a query);
     $scope. $on('record updated, function(name, data) {
              get Data();
     });
```

- 3. Click Save
- 4. Click ■
- 5. Select Create New Widget
- 6. Enter the following information:

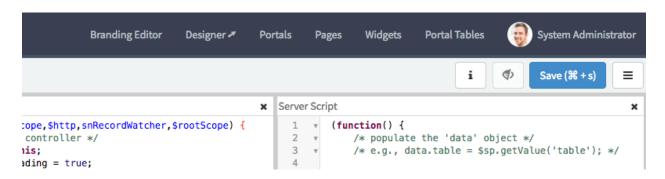
- Widget Name: k17_count_display_widget
- Widget ID: k17_count_display_widget
- 7. Click Submit
- 8. Enter the following code in the HTML Template Field:

9. Enter the following code in the Client Script field:

```
function($scope) {
    /* widget controller */
    var c = t his;
    c. dat a count = 0;

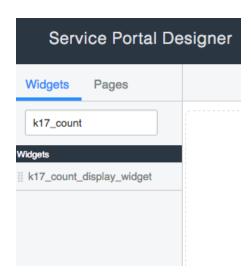
    $scope. $on(" K17Li st W/dget Updat ed", function(evt, results) {
        conside log(results)
        c. dat a count = results lengt h;
    })
}
```

- 10. Click Save
- 11. Click on the **Designer** Option in widget header menu



- 12. Use the filter to look for k17_list_widget Test Page
- 13. Select the Page

14. Use the filter to search for k17_count_display_widget



- 15. Drag and drop k17_count_display_widget above the k17 List Widget
- 16. Navigate to [your instance] .service-now.com/sp_config/?id=k17_list_widget
- 17. Is the count of records populating?

Progress Report

1. Navigate to Lab Management> Report Lab Progress.

