DMS CONTROLS

Documentation

Abstract
In this module I learn basic about DMS controls

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BASIC CONTROLS

1.1 BUTTON

Syntax:

```html
<form action="" id="form">
    <button id="" class="">Click me</button>
    <!-- Or -->
    <input type="button" value="">
</form>
```

Attributes:

Attribute	Description
Id	set id of button
class	set class of button
name	set name of button
type	set button type, we have three type of button like, button, submit and reset
value	set button value, it will only work with input type button
autofocus	set focus on page load
disabled	set disable button
form	specify action, where we want to post data, it will work if form type id submit
formaction	specify action, where we want to post data, it will work if form type id submit
formenctype	set encoded on form data which we send to the server, we have diffrent option like, application/x-www-form-urlencoded, multipart/form-data, text/plain
formmethod	set method of form, we have two type of method, get and post
formnovalidation	specify that form should not validate on submitting form, it only work with submit type
formtarget	specify where to display response after submitting the button, it will only work with submit type, we have different option like, • _blank: loads the response in a new window/tab • _self: loads the response in a new window/tab (this is default) • _parent: loads the response in the parent frame • _top: loads the response in the full body of the window • <framename>: loads the response in a named iframe

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1.2 TEXTBOX

Syntax:

```html
<form action="">
    <input type="text" name="city" id="" class="" value="" placeholder="" />
</form>
```

Attributes:

Attribute	Description
Id	set id of button
class	set class of button
name	set name of button
type	set button type, we have three type of button like, button, submit and reset
value	set button value, it will only work with input type button
autofocus	set focus on page load
disabled	set disable button
dirname	set when form is submit direction of input is also include in data, ex: city=Los Angeles&city.dir=ltr
list	set id of data list which help in suggestions
required	set field is required
minlength	set minimum character which user must input
maxlength	set maximum character which user must input
form	specify action, where we want to post data, it will work if form type id submit
formnovalidation	specify that form should not validate on submitting form, it only work with submit type

1.3 NUMBERBOX

Syntax:

```html
<form action="">
    <input type="number" name="city" id="" class="" value="" placeholder="" />
</form>
```

Attributes:

Attribute	Description
Id	set id of button
class	set class of button

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name	set name of button
type	set button type, we have three type of button like, button, submit and reset
value	set button value, it will only work with input type button
autofocus	set focus on page load
disabled	set disable button
dirname	set when form is submit direction of input is also include in data, ex: city=Los Angeles&city.dir=ltr
list	set id of data list which help in suggestions
required	set field is required
min	set minimum value of input
max	set maximum value of input
step	set step for input
form	specify action, where we want to post data, it will work if form type id submit
formnovalidation	specify that form should not validate on submitting form, it only work with submit type

1.4 RADIO BUTTON

Syntax:

```
<form action="">
    <input type="radio" name="gender" id="male" class="" value="male" />
    <label for="male">Male</label>
    <input type="radio" name="gender" id="female" class="" value="female" />
    <label for="female">Female</label>
</form>
```

Attributes:

Attribute	Description
Id	set id of button
class	set class of button
name	set name of button
type	set button type, we have three type of button like, button, submit and reset
value	set button value, it will only work with input type button
autofocus	set focus on page load
disabled	set disable button
checked	checked radio button
form	specify action, where we want to post data, it will work if form type id submit

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formnovalidation	specify that form should not validate on submitting form, it only work with submit type

1.5 CHECKBOX

Syntax:

```html
<form action="">
    <input type="checkbox" name="hobbies" id="playingCricket" class="" value="Playing Cricket" />
    <label for="playingCricket">Playing Cricket</label>
    <input type="checkbox" name="hobbies" id="playingFootball" class="" value="Playing Football" />
    <label for="playingFootball">Playing Football</label>
    <input type="checkbox" name="hobbies" id="playingChess" class="" value="Playing Chess" />
    <label for="playingChess">Playing Chess</label>
    <input type="checkbox" name="hobbies" id="readingBook" class="" value="Reading Book" />
    <label for="readingBook">Reading Book</label>
</form>
```

Attributes:

Attribute	Description
Id	set id of button
class	set class of button
name	set name of button
type	set button type, we have three type of button like, button, submit and reset
value	set button value, it will only work with input type button
autofocus	set focus on page load
disabled	set disable button
checked	checked checkbox
form	specify action, where we want to post data, it will work if form type id submit
formnovalidation	specify that form should not validate on submitting form, it only work with submit type

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DATE PICKER

</div>

2.1 INTRODUCTION

➢ It is provide by jQuery.
➢ So when we use datepicker we must first include jQuery then we must include jQuery ui.

Example:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Document</title>
        <link rel="stylesheet" href="../../assets/lib/jquery-ui-1.13.2/jquery-ui.min.css" />
    </head>
    <body>
        <div>
            <input type="text" id="datepicker" />
        </div>
        <script src="../../assets/lib/jQuery/jquery-3.6.3.min.js"></script>
        <script src="../../assets/lib/jquery-ui-1.13.2/jquery-ui.min.js"></script>
        <script>
            $(document).ready(function () {
                $("#datepicker").datepicker();
            });
        </script>
    </body>
</html>
```

Options:

Option	Description
selectOtherMonths	enable to select date of before or after month in current mount menu
showButtonPanel	Display button bar
changeMonth	Display month menu
changeYear	Display year menu
numberOfMonths	Display multiple month

<div align="right">

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showOn	Show button, when we click it, datepicker will open
buttonImage	Set button image
buttonImageOnly	Set button is image only or not in boolean
buttonText	Set button text
minDate	Set minimum date
maxDate	Set maximum date
showWeek	Show number of week of year
firstDay	Set first day of month
dateFormat	Set date format
showAnim	Set animation, we have many animation options like, show, slideDown, fadeIn, blind, bounce, clip, drop, fold, slide

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3.1 INTRODUCTION

➢ Select Picket provides by bootstrap.
➢ So, we must first include bootstrap after we should include selectpicker.

Example:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-
scale=1.0" />
        <title>Document</title>
        <link rel="stylesheet"
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/css/bootstrap.min.cs
s" integrity="sha384-
xOolHFLEh07PJGoPkLv1IbcEPTNtaed2xpHsD9ESMhqIYd0nLMwNLD69Npy4HI+N"
crossorigin="anonymous" />
        <link rel="stylesheet" href="../../../assets/lib/bootstrap-select-
1.13.14/dist/css/bootstrap-select.min.css" />
        <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
icons@1.10.2/font/bootstrap-icons.css" integrity="sha384-
b6lVK+yci+bfDmaY1u0zE8YYJt0TZxLEAFyYSLHId4xoVvsrQu3INevFKo+Xir8e"
crossorigin="anonymous" />
    </head>
    <body>
        <div class="mt-3">
            <select name="" id="select" title="Select City" multiple>
                <option value="1">Channai</option>
                <option value="2">Ahmedabad</option>
                <option value="3">Bangalore</option>
                <option value="4">Los Angeles</option>
                <option value="5">New York</option>
                <option value="6">Las Vegas</option>
                <option value="7">City of Miami</option>
            </select>
        </div>

        <div class="mt-3 ml-3">
```

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```
            <button class="btn btn-danger" id="hide">Hide</button>
            <button class="btn btn-success" id="show">Show</button>
        </div>
        <script src="../../../assets/lib/jQuery/jquery-
3.6.3.min.js"></script>
        <script
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.2/dist/js/bootstrap.bundle.m
in.js" integrity="sha384-
Fy6S3B9q64WdZWQUiU+q4/2Lc9npb8tCaSX9FK7E8HnRr0Jz8D6OP9dO5Vg3Q9ct"
crossorigin="anonymous"></script>
        <script src="../../../assets/lib/bootstrap-select-
1.13.14/dist/js/bootstrap-select.min.js"></script>
        <script>
            $(document).ready(function () {
                $("#select").selectpicker();
            });
        </script>
    </body>
</html>
```

Options:

Option	Description
actionsBox	set selectAll and deselectAll button
countSelectedText	set format of count
deselectAllText	deselect all selected item when dropdown rendered
dropdownAlignRight	set all the option align right side, we also have one more option which is "auto"
dropupAuto	first it check upper or lower side have enough space or not, if have then it open normally else it open in dropup
header	set header of dropdown
hideDisabled	remove all element which is disable, also remove disable groups
iconBase	set icon base
liveSearch	set live search
liveSearchNormalize	set accent-insensitive search
liveSearchPlaceholder	set placeholder in search box
liveSearchStyle	set search style, We have two options like, When set to 'contains', searching will reveal options that contain the searched text. For example, searching for pl with return both Apple, Plum, and Plantain. When set to 'startsWith', searching for pl will return only Plum and Plantain.
maxOptions	set max number of selection

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mobile	set mobile view
multipleSeparator	set seperator between multiple
noneSelectedText	The text that is displayed when a multiple select has no selected options, it show it's output when we don't give title to dropdown
selectedTextFormat	set display format, we have many options like, • value: give comma seperated value • count: give count of selected value • count > 2: give value until condition become true, after it give count • static: always so placeholder
selectAllText	show text when we select all the option of dropdown
selectOnTab	treat tab like enter or space character in dropdown
showContent	enable render content inside dropdown elements
showIcon	enable to render icon in dropdown options
showSubtext	enable to render subtext in dropdown options
showTick	enable to render tick on selected options
size	set how many element show in window when window is open, if dropdown have more window then it enable scrollbar in window
style	set style
styleBase	set base style
tickIcon	set which icon we want to use as tick
title	set title of dropdown
width	set width, we have different option like, auto, fit, 100%, 100px
windowPadding	set padding in widow, we also can pass array like [10, 20, 20, 40] which represent [top, right, bottom, left]
sanitize	set sanitize, which sanitize data-content of options
whiteList	set whishList, it take object which contains allow attributes and tags
sanitizeFn	set sanitize function, it is used for dedicated library which use to parform sanitization.

Methods:

Methods	Description
val	select one or more based on value
render	It will render the selectpicker
refresh	It will refresh the selectpicker
selectAll	it will select all options
deselectAll	it will deselect all options
mobile	enable mobile
setStyle	set button style
toggle	open/close dropdown
hide	hide dropdown

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show	show dropdown
destroy	destroy dropdown

Events:

Event	Description
show.bs.select	immediately triggered when dropdown show event start
shown.bs.select	triggered when dropdown show event end
hide.bs.select	immediately triggered when dropdown hide event start
hiddem.bs.select	triggered when dropdown hide event end
refresh.bs.select	triggered after dropdown is refresh
rendered.bs.select	triggered after dropdown is rendered
loaded.bs.select	triggered after select has been initialized
changed.bs.select	triggered after select value is changed

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4.1 INTRODUCTION

➤ jTable provides by jQuery.
➤ So when we use jTable we must first include jQuery then we include jTable.

Example:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8" />
        <meta http-equiv="X-UA-Compatible" content="IE=edge" />
        <meta name="viewport" content="width=device-width, initial-scale=1.0" />
        <title>Document</title>
        <link rel="stylesheet" href="../../assets/lib/jquery-ui-1.13.2/jquery-ui.min.css" />
        <link rel="stylesheet" href="../../assets/lib/jtable/jtable.2.4.0/themes/metro/darkgray/jtable.min.css" />
    </head>
    <body>
        <div id="table"></div>
        <script src="../../assets/lib/jQuery/jquery-3.6.3.min.js"></script>
        <script src="../../assets/lib/jquery-ui-1.13.2/jquery-ui.min.js"></script>
        <script src="../../assets/lib/jtable/jtable.2.4.0/jquery.jtable.min.js"></script>
        <script src="../../assets/lib/jtable/jtable.2.4.0/jquery.jtable.min.js"></script>
        <!-- <script src="./custom.js"></script> -->
        <script>
            $(document).ready(function () {
                $("#table").jtable({
                    // general options
                    actions: {
                        listAction: function (postData, jtParams) {
                            return {
                                Result: "OK",
                                Records: [{ Username: "Dhruvil Dobariya",
Email: "dhruvildobariya@gmail.com", Password: "Dhruvil@123" }],
```

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```
                                };
                },
            },
            fields: {
                Username: {
                    title: "Username",
                },
                Email: {
                    title: "Email",
                },
                Password: {
                    title: "Password",
                },
            },

            // Event handlers
        });
        $("#table").jtable("load");
    });
    </script>
    </body>
</html>
```

Options:

Option	Description
title	set title of table
addRecordButton	configure add button
showCloseButton	default: true, when user click on button, closeRequested event triggered, this is used to close child table
ajaxSetting	configure global ajax request
columnResizable	default: true, allow to resize column
columnSelectable	default: true, user can show and hide column by right click on header
sorting	default: false, give sorting button in header
defaultSorting	"ColumnnName ASC" or "ColumnName DESC" we can also set multiple column
multiSorting	default: false, set multiple sorting
paging	default: false, enable paging
pageSize	default: 10, set page size
gotoPageArea	set direct page navigation is enable or not
pageSizeChangeArea	default: true, set pagination combobox is enable or not

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pageList	set behaviour of navigation panel, we have two behaviour for navigation panel • minimal: Show only first, previous, next and last links. • normal: Shows page numbers in addition to 'minimal'.
pageSizes	set combobox option
selecting	default: false, it enable to select row
multiselect	default: false, it enable multiple selection of rows
selectingCheckboxes	default: false, it enable checkbox for select row
selectOnRowClick	default: false, it enables selection row on clicking
deleteConfiguration	default: true, it set whether dialog box open or not on delete
jqueryuiTheme	default: false, set whether jqueryui theam use or not
animationsEnabled	default: true, set whether animation enable or not
loadingAnimationDelay	set loading animation delay
dialogShowEffect	set dialog show effect
dialogHideEffect	set dialog hide effect, we have multiple types of effect like, blind', 'bounce', 'clip', 'drop', 'explode', 'fold', 'highlight', 'puff', 'pulsate', 'scale', 'shake', 'size', 'slide'
openChildAsAccordion	default: false, set child table is open and close in accordion
defaultDateFormat	default: yy-mm-dd, set default format of date
saveUserPreferences	default: true it save the user customization and apply on other page
showCloseButton	default: false, it set the close button in ui, it work with child table
tableId	set table id for saving and restoring user preferance
toolbar	configure toolbar
hoverAnimation	enable/disable small animation of mouse hover on toolbar
hoverAnumationDuration	set hover animation duration in toolbar
hoverAnimationEasing	set hover animation easing in toolbar
items	array of custom toolbar items
unAuthorizedRequestRedirectUrl	it redirect specific url if ajax call is unauthorized

Fields:

Field	Description
title	title of this column in form
key	set key of table
edit	this field don't show when we edit record
create	this field don't show when we edit record

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delete	it could be delete
columnResizable	it allows us to resize column
width	set width of column
visibility	set visibility behavior, we have three different option for visibility • fixed: this is always visible can't hide by user • visible: this is always visible can't hide by user • hidden: this is always visible can't hide by user
sorting	enable sorting
optionSorting	set the behavior of sorting, we have four different behavior for sorting • value: sort according to the value in ascending, ex: 1, 2, 3,..., 10, 11, 12,.. • value-desc: sort according to the value in descending ex: 21 , 20, 19, 18,..., 2, 1 • text: sort according to the display text in ascending ex: 1, 10, 11, 2, 21, 3, 4, 41,.. • text-desc: sort according to the display text in ascending ex: ex: 41,4, 3, 21, 2, 11, 10, 1,..
options	Create dropdown for field in edit or add form
type	set type of field in form, we have different type of field type like, password, textarea, date(if we use date then field must be in date type in table), radiobutton, cheackbox, hidden(hide in form also hide in table)
defaultValue	set default value in field of form
inputTitle	set title of field in form
inputClass	set classes in field in form
list	hide the column on table, but show in form
listClass	set classes in particular field list
dependsOn	This property use to get the date of the other field inside the current column
input	create customized input field in form
display	create customized cell in list

Actions:

Action	Description
listAction	Configuration for get all data from api, callback function which take two parameters and return deferred • postData: it contains data which we want to add, update or delete, but this is not use in list action • jtParams: it contains three properties, jtStartIndex, jtPageSize and jtSorting, base on thease properties we can do pagging and sorting in list.

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	We must return response of api in specific format,
	{
	    Result: "OK"
	    Records: <list of object of record>,
	    TotalRecordCount: <Count of all record of table which exist in database not count of page record>
	}

createAction	Configuration for add data from api, callback function which take one parameter and return deferred
	• postData: it contains data which we want to add
	We must return response of api in specific format,
	{
	    Result: "OK"
	    Records: <object of newly created record>
	}

updateAction	Configuration for update data from api, callback function which take one parameter and return deferred
	• postData: it contains data which we want to update
	We must return response of api in specific format,
	{
	    Result: "OK"
	    Records: <object of newly created record> (Optional)
	}

deleteAction	Configuration for delete data from api, callback function which take one parameter and return deferred
	• postData: it contains id of data which we want to delete
	We must return response of api in specific format,
	{
	    Result: "OK"
	}

Methods:

Method	Description
load	load a data into table
getRowByKey	It is used to retrieve record by key
addRecord	It is used to add new record in table programmatically options: • record: the object of record which we want to add • clientOnly: default: false, if it is true then record only add in client side not affect on server

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	• animationsEnable: default: true, if true then show animation while deleting row • url: specify url for createAction • success: it is callback function which is execute when ajax call success • error: it is callback function which is execute when ajax call give something error
updateRocord	it is used to delete row by key options: • record: the object of record which we want to update • clientOnly: default: false, if it is true then record only add in client side not affect on server • animationsEnable: default: true, if true then show animation while deleting row • url: specify url for updateAction • success: it is callback function which is execute when ajax call success • error: it is callback function which is execute when ajax call give something error
deleteRecord	It is used to delete row by key options: • record: the object of record which we want to update • clientOnly: default: false, if it is true then record only add in client side not affect on server • animationsEnable: default: true, if true then show animation while deleting row • url: specify url for updateAction • success: it is callback function which is execute when ajax call success • error: it is callback function which is execute when ajax call give something error
changeColumnVisibility	It is used to change column visibility, we have three different behavior of visibility like, hidden, visible, fixed
selectedRows	it is used to get all selected rows from table
deleteRows	it will delete rows from server and client both side
reload	it will reload table and execute callback function
destroy	it will destroy table
selectRows	it is used to select rows
showCreateForm	it will show create form
openChildRow	it is used to open child rows
closeChildRow	it is used to close child rows

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openChildTable	it is used to create and open child table options: • row: data of the table • tableOptions: options of table • opened: callback function which is execute after table is opened
closeChildTable	it is used to create and close child table options: • row: data of the table • closed: callback function which is execute after table is closed

Events:

Events	Description
closeRequested	it triggered when we click on close button of table
formClosed	it triggered when we form is close, it give two parameters, event and data, • data.form: it give form as a jQuery selector • data.formType: it give type of form like create or edit • data.row: it give us edited row if form is in edit mode
formCreated	it triggered when we form is create, it give two parameters, event and data, • data.form: it give form as a jQuery selector • data.formType: it give type of form like create or edit • data.record: it give us edited record if form is in edit mode • data.row: it give us edited row if form is in edit mode
formSubmitting	it triggered when we form is submit, it give two parameters, event and data, • data.form: it give form as a jQuery selector • data.formType: it give type of form like create or edit • data.row: it give us edited row if form is in edit mode
loadingRecords	it triggered when loading recored in table
recordsLoaded	it triggered when recored load successfully, it give two parameters, event and data, • data.record: it give us all the record which is loaded • data.serverResponse: it give use server response
recordAdded	it triggered when record is add, it give two parameters, event and data, • data.record: it give us object of added record • data.serverResponse: it give use server response

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recordUpdated	it triggered when record is update, it give two parameters, event and data, • data.record: it give us object of added record • data.row: it give us edited row • data.serverResponse: it give use server response
recordDeleted	it triggered when record is delete, it give two parameters, event and data, • data.record: it give us object of added record • data.row: it give us deleted row • data.serverResponse: it give use server response
rowInserted	it triggered when row insert in table, it give two parameters, event and data, • data.record: it give us record • data.row: it give us row • data.isNewRow: it gives true if it is new row
rowUpdated	it triggered when row update in table, it give two parameters, event and data, • data.record: it give us updated record • data.row: it give us updated row
rowRemoved	it triggered when row insert in table, it give two parameters, event and data, • data.row: it give us deleted row • data.reason: it give us reason
selectionChanged	it triggered when select any row or unselect any row