Basics of Devextreme

DevExtreme is UI (user interface) components for building modern web and mobile applications. Developed by DevExpress.

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It is for react, angular, vue.
It is in include topic
Data grid,
Charts
Form control
Navigation menu etc.
```

Installation – NuGet Package

Cdn files
Local files:

Widget Basics - jQuery

A widget in DevExtreme is a reusable UI component that encapsulates a specific functionality or behavior.

Follow steps.

Initialization -> options -> method -> events

Create and Configure a Widget:

Include the Required DevExtreme Files Create an HTML Element for the Widget Initialize the Widget Using jQuery Configure Widget Options

Get a Widget Instance

get a widget instance, you can use dxWidgetName("instance") method, where WidgetName is the name of the widget you are working with (e.g., dxDataGrid, dxTextBox, dxButton, etc.).

Get and Set Options:

You can get the current value of a widget's option or set a new value to it programmatically using the option() method.

Call Methods:

To call a method on a widget, you need to access the widget instance using the dxWidgetName("instance") method. Once you have the instance, you can call any available method on that widget.

Handle Events

you can handle events by passing an event handler function as part of the widget's configuration or by using the onEventname option in the widget initialization.

Destroy a Widget:

To destroy a widget, call the dispose() method on the widget's instance.

2. Editors - Overview:

It is collection to use to take a user input field
It is used to include data entry, validation, grouping easy handle
2.1 Check Box:

dxCheckBox widget in DevExtreme is a user interface element that allows the user to select or deselect an option. disable or enable the checkbox, and programmatically get or set the checkbox value.

Event: optionChanged valueChanged registerKeyHandler

Options:

text, value, hint, focusstateenabled, accesskey, tabindex, rtlenabled, beginupdate, endupdate etc.

2.2 Date Box:

The dxDateBox widget in DevExtreme is used to provide a date input box where users can select or input a date.

It can display a calendar for easy date selection and can be customized to handle different date formats, validation rules, and more.

To initialize the **dxDateBox** widget, target an HTML element and use the dxDateBox method to configure it.

type ,value ,dateSerializationFormat, invalidDateMessage acceptCustomValue,accessKey,activeStateEnabled: true, applyButtonText,cancelButtonText,applyValueMode,height width, maxLength,hoverStateEnabled

2.3 Drop Down Box

The **dxDropDownBox** widget in DevExtreme provides a drop-down list from which users can select a value. It is useful when you need a list of items to be presented for the user to pick one from.

Name,placeholder, acceptCustomValue,displayExpr, showDropDownButton,contentTemplate, onClosed,hoverStateEnabled,showClearButton, optionChanged,focus,blur,keydown

2.4 Number Box

The **dxNumberBox** widget allows users to input a number. It includes support for setting minimum and maximum values, step increments, and more.

Used all off content:

type,placeholder,activeStateEnabled, disabled,elementAttr,max,min,mode, showClearButton,showSpinButtons,step, visible,useLargeSpinButtons,value,format and other event

2.5 Select Box

The **dxSelectBox** widget is a drop-down list where users can select a single value from a list. It can display a list of strings or objects.

Used:

dataSource,valueExpr,displayExpr searchEnabled,searchMode,onOpened, grouped,placeholder,hint,contains,startswith

2.6 Text Area

The **dxTextArea** widget allows the user to input multiline text. It's commonly used for input fields that require a longer response, like comments or descriptions.

Used:

accessKey,activeStateEnabled,autoResizeEnabled, maxHeight,maxLength,minHeight,onCopy,onCut,stylingMode value,spellcheck,

2.7 Text Box

The **dxTextBox** widget is a simple text input field. It supports single-line input and can handle various options like placeholders, validation, and input restrictions.

Used:

Placeholder,mask,maskchar,maskInvalidMessage, maxLength,showMaskMode,useMaskedValue,onFieldClick, stylingMode,mode,buttons

2.8 Button:

The **dxButton** widget represents a button control that can trigger actions when clicked.

Types of button:

Normal, success, default, danger

stylingMode,text,stylingMode,icon

2.9 FileUploader

The **dxFileUploader** widget allows users to upload files to the server.

It supports features like drag and drop, multiple file uploads, and progress tracking.

abortUpload,allowCanceling, allowedFileExtensions,Accept,selectButtonText, invalidFileExtensionMessage, invalidMaxFileSizeMessage, invalidMinFileSizeMessage accessKey,uploadFailedMessage, labelText,maxFileSize,minFileSize multiple,showFileList,onProgress, readyToUploadMessage,uploadMethod,uploadMode uploadUrl,dropZone,uploadMode

2.10 Validation

Validation can be done using the **validationRules** option, and you can handle validation events like **onValidated** to take action when the validation passes or fails.

It is array type for validationrules. Type of validation:

Stringlength, number, email, password, compare, custom