**jQuery UI**

What is jQuery UI ?  
  
UI: stands for User Interface. I.e. the front end of the website, where the user interacts

jQuery UI : is a jQuery & JavaScript library.  
jQuery is a library built on top of JavaScript, hence jQuery is considered as a JavaScript library.  
jQuery UI is a library built on top of jQuery and JavaScript, hence jQuery UI is considered as jQuery & JavaScript library.

 jQuery UI is built using JavaScript, jQuery and CSS; especially meant to enhance user interface of our websites.

Why JQuery UI?  
  
jQuery UI has a collection of user interface widgets, effects, interactions and themes.

It has collection of appealing user interface controls, known as widgets

A widget in jQuery UI is a reusable interactive component that enhances the user interface of a web page.  
It has collection of ready to use special effects; collection of interactions, which we can add to any HTML element on the page  
It has collection of themes, which help us to change the look and feel of our websites easily.

**Cdn links for jQuery UI**

<link rel="stylesheet" href="https://code.jquery.com/ui/1.14.1/themes/base/jquery-ui.css">

    <script src="https://code.jquery.com/jquery-3.7.1.js"></script>

    <script src="https://code.jquery.com/ui/1.14.1/jquery-ui.js"></script>

**jQuery UI widgets:** user interface controls  
jQuery UI help us to create theme-able and appealing widgets with a fully functional keyboard and mouse interactions.

**Progress bar widget:** the current status of a process in percentage

**Dialog widget:** overlay dialog box. creates a theme able and customizable overlay window (floating window) with a title bar and a content area.  
**Tool tip widget**: mouse over tool tip. Tooltips are used to show some additional information about an element to the user and helps us to create a theme able and customizable tooltip control.

**Tabs widget:** tab based sections similar to accordion(collapsible and expandable sections)

**Draggable** – Move Elements with the Mouse

The Draggable widget allows users to move an element around by clicking and dragging it.

**Droppable –** Drop Items on Target Areas

The **Droppable** widget lets elements be dropped onto specific targets.

When the draggable item is dropped on, it changes the background and text.

**Resizable –** Change Element Size Dynamically

The Resizable widget lets users resize an element by dragging its edges.

**Selectable** – Multi-Select with Mouse Drag

The Selectable widget allows users to select multiple elements by clicking and dragging.

Click and drag over items to select multiple.

**Sortable –** Reorder List Items by Dragging

The Sortable widget allows users to rearrange items by dragging.

Drag and drop list items to reorder them.

**ui-widget-header**

ui-widget-header is used to style headers in jQuery UI components.

It provides a consistent theme across different widgets.

You can override its styles to match your website design.

By default, the **ui-widget-header** class provides:

* **Background color**: A slightly darker shade than the content area.
* **Border**: A solid border to differentiate headers.
* **Text color**: Often white or dark gray, depending on the theme.
* **Padding**: Space around the text to make it look more prominent.

**ui-widget-content –** Selects the Content Section of Widgets

* Used for styling the main content area of widgets.
* Often applied to areas inside dialogs, accordions, or tabs.
* Changing the background or padding of widget content areas.

**ui-widget –** Selects All jQuery UI Widgets

* This is the base class for all jQuery UI widgets.
* It ensures that widgets inherit consistent font, color, and spacing.
* Applying a custom font, color, or background to all jQuery UI widgets.

**ui-widget-overlay –** Selects the Overlay Element (Used in Modal Dialogs)

* Creates a semi-transparent background behind modal dialogs.
* Prevents interaction with elements behind the modal.
* Customizing the modal overlay color or transparency.

**ui-selecting –** Element Being Selected

* This class is applied when an item is in the process of being selected (while the user is clicking or dragging over it).
* It disappears once the selection is confirmed.
* Applying temporary styles to elements as they are being selected.

**ui-selected** – Element That Has Been Selected

* This class is applied after an item has been selected.
* It remains on the selected item until the selection is changed or cleared.
* Styling selected items for better visibility.