



WEB ENGINEERING

.Net

Week 2 - Day 8



UI

Recap Questions

The following questions will be asked to the participants for review:

What is

- jQuery Syntax
- jQuery Selectors
- Manipulating HTML DOM with jQuery
- CSS Manipulation
- Animation (fade, slide, hide, show)

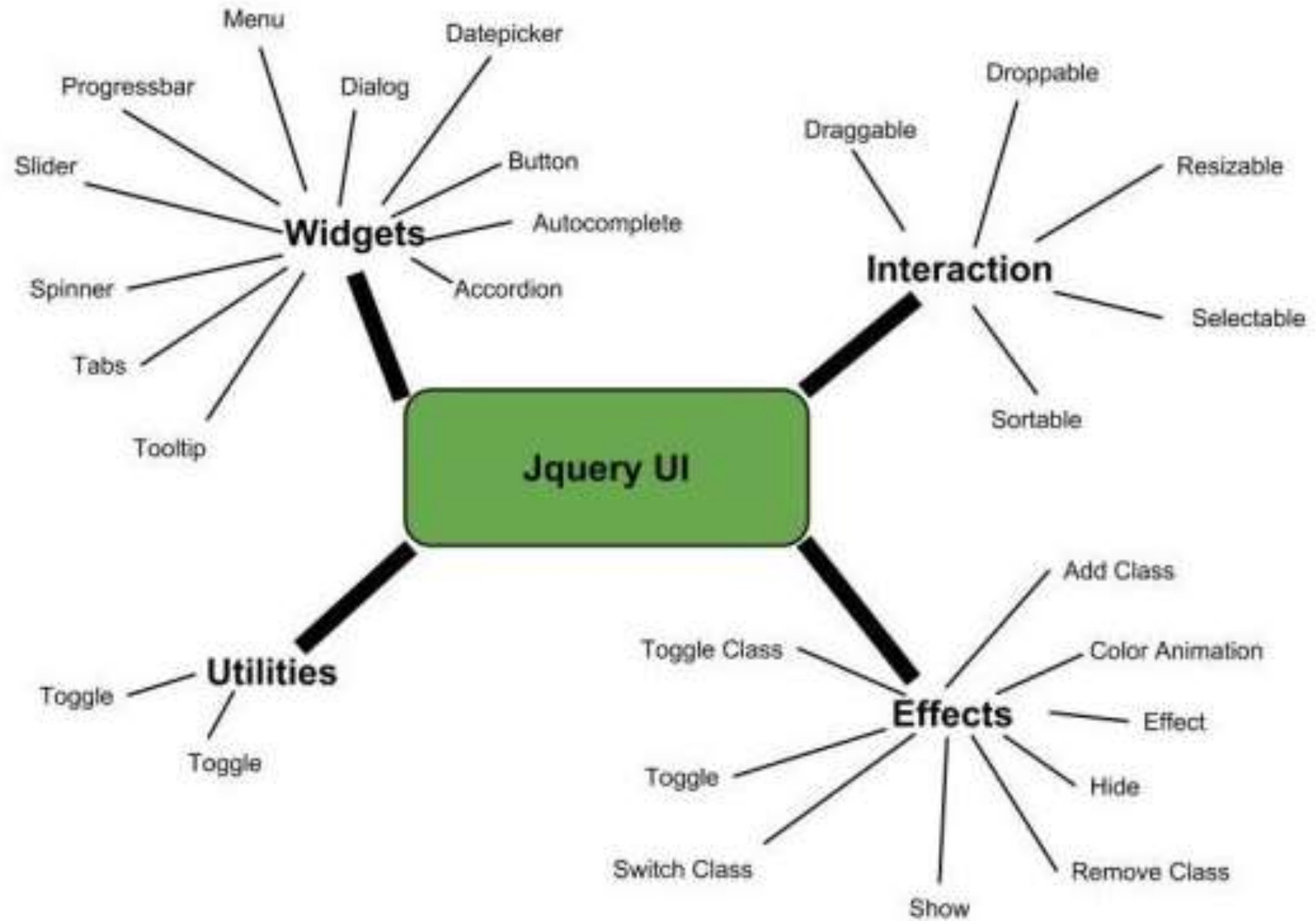
Learning Objectives

By the end of this session, the students will have developed an understanding of:

- ▶ Creating a rich user interface using jQuery UI



What is jQuery UI?



Features

jQueryUI is categorized into four groups, interactions, widgets, effects, utilities. These will be discussed in detail in the subsequent chapters. The structure of the library is as shown in the image below:

- **Interactions** – These are the interactive plugins like drag, drop, resize and more which give the user the ability to interact with DOM elements.
- **Widgets** – Using widgets which are jQuery plugins, you can create user interface elements like accordion,datepicker etc.

Features

- **Effects** – These are built on the internal jQuery effects. They contain a full suite of custom animations and transitions for DOM elements.
- **Utilities** – These are a set of modular tools the JQueryUI library uses internally.



jQuery UI Interactions

1) Interactions

Interactions is a set of mouse-based instructions used as building blocks for rich interfaces and complex widgets. These are the mostly used interactions:

- Draggable
- Droppable
- Resizable
- Selectable
- Sortable



jQuery UI Widgets

Widgets

Widgets are feature-rich, stateful plugins that have a full life-cycle, along with methods and events. These are the most used widgets:

Accordion

Progress Bar

Autocomplete

Tabs

Dialog

Tooltip

Button

Slider

Date Picker

Spinner

Menu



jQuery UI Effects

Effects

The internal jQuery effects contain a full suite of custom animation and transition for DOM elements. jQuery UI adds support for animating colors and class transitions, as well as providing several additional easings.

Hide
Show
Add Class
Remove Class
Switch Class
Toggle Class
Color Animation
Effect
Toggle



jQuery UI Utilities

Position

It is used to set the position of the element.

Homework

Students will practice exercises of the topics covered today from this link:

[jQuery DOM Practice Exercises](#)

&

<https://api.jquery.com/animate/>



Learning Objectives

By the end of this session, the students have practised

- ✓ Hide/Show, Fade, and Slide
- ✓ jQuery Animation
- ✓ Manipulating CSS with jQuery
- ✓ Creating a rich user interface using jQuery UI



Conclusion & Q/A

See you tomorrow!