jQuery interview questions and answers part 5

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43. How can related code be encapsulated? Give example.

The object literal is one of the simplest ways that the user can encapsulate related code together. It helps by removing any anonymous functions from the users code. It can also be used to centralize configuration options.
For ex. An object literal being implemented

```
var myFeature = {
myProperty : 'hello',
myMethod : function() {
console.log(myFeature.myProperty);
},
init : function(settings) {
m2yFeature.settings = settings;
},
readSettings : function() {
console.log(myFeature.settings);
}
};
myFeature.myProperty; // 'hello'
myFeature.myMethod(); // logs 'hello'
myFeature.init({ foo : 'bar' });
myFeature.readSettings(); // logs { foo : 'bar' }
```

44. Write a code for the implementation of a module pattern.

The object literal does not provide any privacy for the methods or properties. The module pattern allows the user to offer privacy to functions and variables. It can be used to set to expose limited API.
For ex. The module pattern code:

```
var feature =(function() {
var privateThing = 'secret',
publicThing = 'not secret',
changePrivateThing = function() {
privateThing = 'super secret';
},
sayPrivateThing = function() {
console.log(privateThing);
changePrivateThing();
};
return {
publicThing : publicThing,
sayPrivateThing : sayPrivateThing
}
})();
feature.publicThing; // 'not secret'
feature.sayPrivateThing();
```

45. Write the code to define a RequireJs module with its dependencies.

The RequireJS is a dependency management tool that can be used by the user to manage script modules. It can be used to load scripts once a page has been loaded. This helps in evenly distributing the downloads.
For ex. RequireJS module with dependencies defined:

```
require.def("my/shirt",
["my/cart", "my/inventory"],
function(cart, inventory) {
```

```
//return an object to define the "my/shirt" module.
return {
color: "blue",
size: "large"
addToCart: function() {
inventory.decrement(this);
cart.add(this);
}
}
}
);
```

In the above example the my.shirt module is created. This module depends on the my/cart and my/inventory.

46. Explain the use of the $.fn.bind and $.fn.trigger.

Both the $.fn.bind and $.fn.triggers are two important jquery methods. They are primarily used with custom events.
- $.fn.bind: This method accepts an event type and an event handling function as an argument for itself. This method can also accept event-related data as a second argument.
- $.fn.trigger: This method can accept an event type as an argument. It can also take an array of values.
Ex. depicting the usage of $.fn.bind and $.fn.triggers using custom data in both the cases:

```
$(document).bind('myCustomEvent', { foo : 'bar' },
function(e, arg1, arg2) {
console.log(e.data.foo); // 'bar'
console.log(arg1); // 'bim'
console.log(arg2); // 'baz'
});
$(document).trigger('myCustomEvent', [ 'bim', 'baz' ]);
```

47. What is the Struts2 jQuery plugin and its advantages.

The struts2 jquery plugin is used to:
- It provides the user with an easy integration of ajax and widgets.
- It reduces the number of code to be written by a coder.
For ex.

```
<div id="result">Result Div</div>
<s:url id="ajax" value="/ajax1.action"/>
<sj:a id="ajaxlink" href="%{ajax}" indicator="indicator" targets="result" effect="highlight">
Run AJAX Action
</sj:a>
<img id="indicator" src="images/indicator.gif" alt="Loading..." style="display:none"/>
```

The advantages of using it are:
- It reduces the number of code to be written dramatically.
- It also supports ajax form validation.
- The code becomes much easier to read and hence prevents errors from occurring and is easy to debug.

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