LESSON 14: AJAX AND RESTUL SERVICES

OVERVIEW

Front-end scripting is inherently _____ since storing data for an application on the client's machine would be _____.

» Data is better stored in a central repository such as on your _____ host server.

» A common approach for making this data readily available is to develop an API or _____ that can facilitate data requests.

RESTFUL SERVICES

While a much more in depth discussion could follow, the heart of the RESTful service is that it makes use of HTTP request _____ to facilitate different kinds of data requests. Similar to the CRUD structure, we have "_____"

» _____ (create) - We pass any data needed in order to create a new item.

» _____ (read) - We pass any data needed in order to filter or sort a search.

» _____ (update) - We pass the primary key for the item to be updated along with any fields that are to actually be updated.

» _____ - We pass simply the primary key value for the item to be deleted.

$.AJAX()

jQuery provides helpful shorthand forms for a full AJAX call such as

`.load()` and `$.get()`. But when we need specific HTTP verbs for our

requests we must use the broader `$.ajax()` method as follows:

`$.ajax(__1__, __2__);`

1. The _____ for the request as a string.

2. An _____ containing other configuration options (see table)

PROPERTY	VALUE
	Data (in form of an _____) to be passed with the request.
	_____ to be called if the request succeeds
	Function to be called if the request _____.
	HTTP Verb as a _____

```
$.ajax("lego/57175", {

    type: "PUT",

    data: {

        name: "Yoda's Jedi Starfighter"

    },

    success: function(data) {

        // Stuff to do with returned data

    },

    error: function(xhr, errNum, errMsg) {

        // Stuff to do in light of error

    }

});
```

[Scripting]

	VERB	URL	DATA
		`entity/`	All data necessary to create a complete item
		`entity/id`	N/A
		`entity/`	Optionally, any filtering or sorting criterion
		`entity/id`	Only updated data is necessary.
		`entity/id`	N/A