LESSON 15: SENDING AND RECEIVING DATA

SENDING DATA

We often send data to a service from one of these situations:

1. We _____ _____ data in our script based on settings we know we need for the service such as filters or sorts for a GET ALL request.

2. We use some variable from the _____ in order to obtain a specific request such as a GET One, PUT, or DELETE.

3. We _____ data from a _____ to send along with an POST or PUT request.

1. Compiling Data Manually

```
$.ajax("user_lego/", {
    type: "GET",
    data: {
        filter: 'user=1',
        sort: [
            'type.name',
            'lego.name'
        ]
    },
    ...
});
```

```
var req_data = {
    filter: 'user=1',
    sort: [
        'type.name',
        'lego.name'
    ]
};
$.ajax("user_lego/", {
    type: "GET",
    data: req_data,
    ...
});
```

2. Using System Variables

```html
<a href="#" data-item="3" class="lego-thumb">...</a>
```

```javascript
$(".lego-thumb").on("click", function(e){
    e.preventDefault();
    var $target = $(e.target);
    var itemId = $target.attr("data-item");
    $.ajax("lego/" + itemId, {

        ...

    });
});
```

3.a. Serializing Form Data

Assuming you start with a form whose fields' names all match the corresponding entity properties...

```javascript
$("#form-id").on("submit", function(e){
    e.preventDefault();
    var $form = $(e.target);
    var form_data = $form.serialize();
    $.ajax("lego/", {
        type: "POST",
        data: form_data,

        ...

    });
});
```

3.b. A Serialize Function

If you first select the form ($form) then you can use a function like this to convert the data into an object similar to the data set.

```
function serializeData($form) {
    var formData = $form.serializeArray();
    var data = {};
    for(var i = 0; i < formData.length; i++) {
        var obj = formData[i];
        data[obj.name] = obj.value;
    }
    return data;
}
```

RECEIVING DATA

We most often receive data from a service in the form of JSON text. We first must _____ it to an actual JSON object and then we can use it for _____ or to populate a _____ _____.

```
var __1__ = $.parseJSON(__2__);
```

1. Desired name for parsed data variable.

2. JSON string variable to parse.

PRELOADING HANDLEBARS TEMPLATES

It can be much more efficient to load all Handlebars templates at the _____ of the application, compile them, and store them in global variables you can call when needed. This way we don't have _____ them every time we need them.

» Declare variables at outermost level (_____) to hold the compiled templates.

» Declare a _____ function that loads, compiles, and stores each template in its global variable.

» Call the preload function right inside the _____.

HANDLEBARS PARTIALS

Sometimes its helpful for a Handlebars template to call or load another template. This can help keep template simpler and more _____.

» First register the nested template as a "_____"

» Then you can reference the partial inside of another template