



TECH SPOTLIGHT 2018-09-04

VUE.JS

OVERVIEW

- Vue.js is a progressive javascript framework
- It provides easy mechanisms for building data-driven applications in a web environment
- Supports all ES5 compliant browsers (>IE8)

1.0 - TEMPLATES



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VUE.JS

BASIC TEMPLATE SYNTAX



```
1 <div id="app">  
2   {{ message }}  
3 </div>
```

VUE APP CREATION



```
1 var app = new Vue({
2   el: '#app',
3   data: {
4     message: 'Hello Vue!'
5   }
6 })
```

COMBINING THEM...



```
1 <div id="app">
2   {{ message }}
3 </div>
```

+



```
1 var app = new Vue({
2   el: '#app',
3   data: {
4     message: 'Hello Vue!'
5   }
6 })
```

=



Hello, Vue!

DYNAMIC UPDATES

```
> app.message = "Hello, Veritonic!";
```



```
Hello, Veritonic!
```

TO-DO LIST EXAMPLE

```
1 <div id="app-4">
2   <ol>
3     <li v-for="todo in todos">
4       {{ todo.text }}
5     </li>
6   </ol>
7 </div>
8 <script>
9 var app4 = new Vue({
10  el: '#app-4',
11  data: {
12    todos: [
13      { text: 'Learn JavaScript' },
14      { text: 'Learn Vue' },
15      { text: 'Build something awesome' }
16    ]
17  }
18 })
19 </script>
```

1.1 - COMPONENTS



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COMPONENT SYNTAX



```
// Define a new component called button-counter
Vue.component('button-counter', {
  data: function () {
    return {
      count: 0
    }
  },
  template: '<button v-on:click="count++">You clicked me {{ count }} times.</button>'
})
```

COMPONENT SYNTAX



```
<div id="components-demo">  
  <button-counter></button-counter>  
</div>  
<script>  
  new Vue({ el: '#components-demo' })  
</script>
```

SINGLE-FILE COMPONENTS

```
1 <!-- hello_world.vue -->
2 <template>
3   <p>{{ greeting }} World!</p>
4 </template>
5 <script>
6   module.exports = {
7     data: function() {
8       return {
9         greeting: 'Hello'
10      }
11    }
12  }
13 </script>
14 <style scoped>
15   p {
16     font-size: 2em;
17     text-align: center;
18   }
19 </style>
20
```

1.2 - ARCHITECTURE

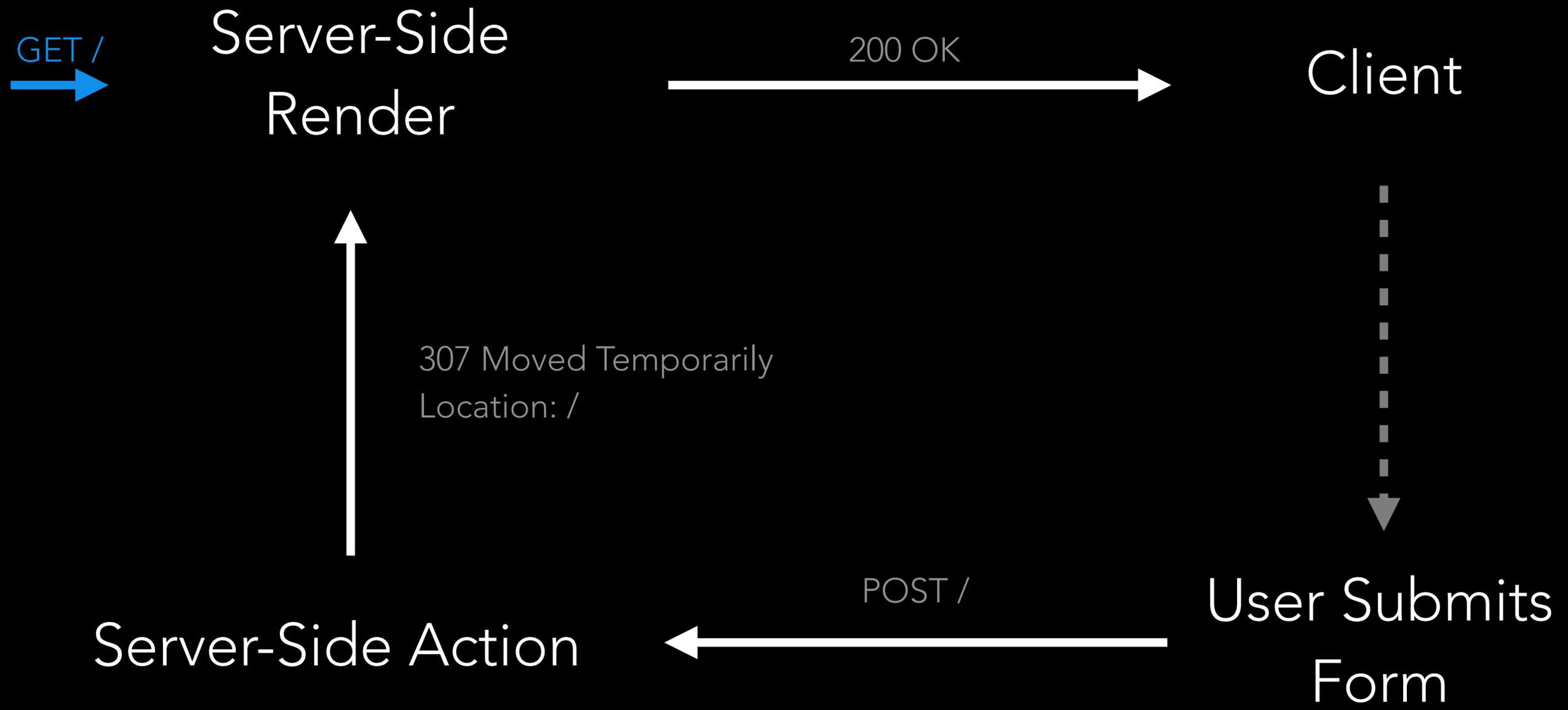


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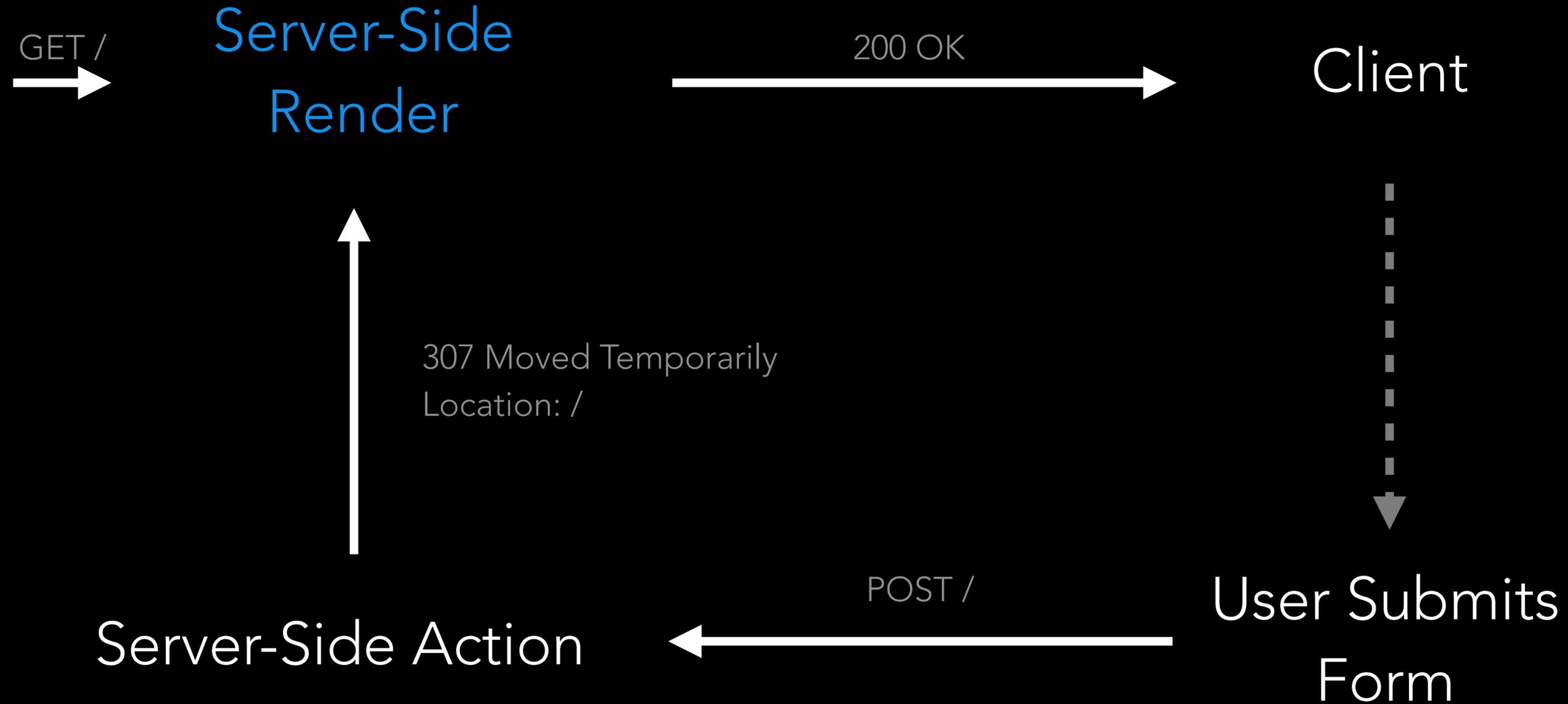
VUE.JS

POST-AND-REDIRECT

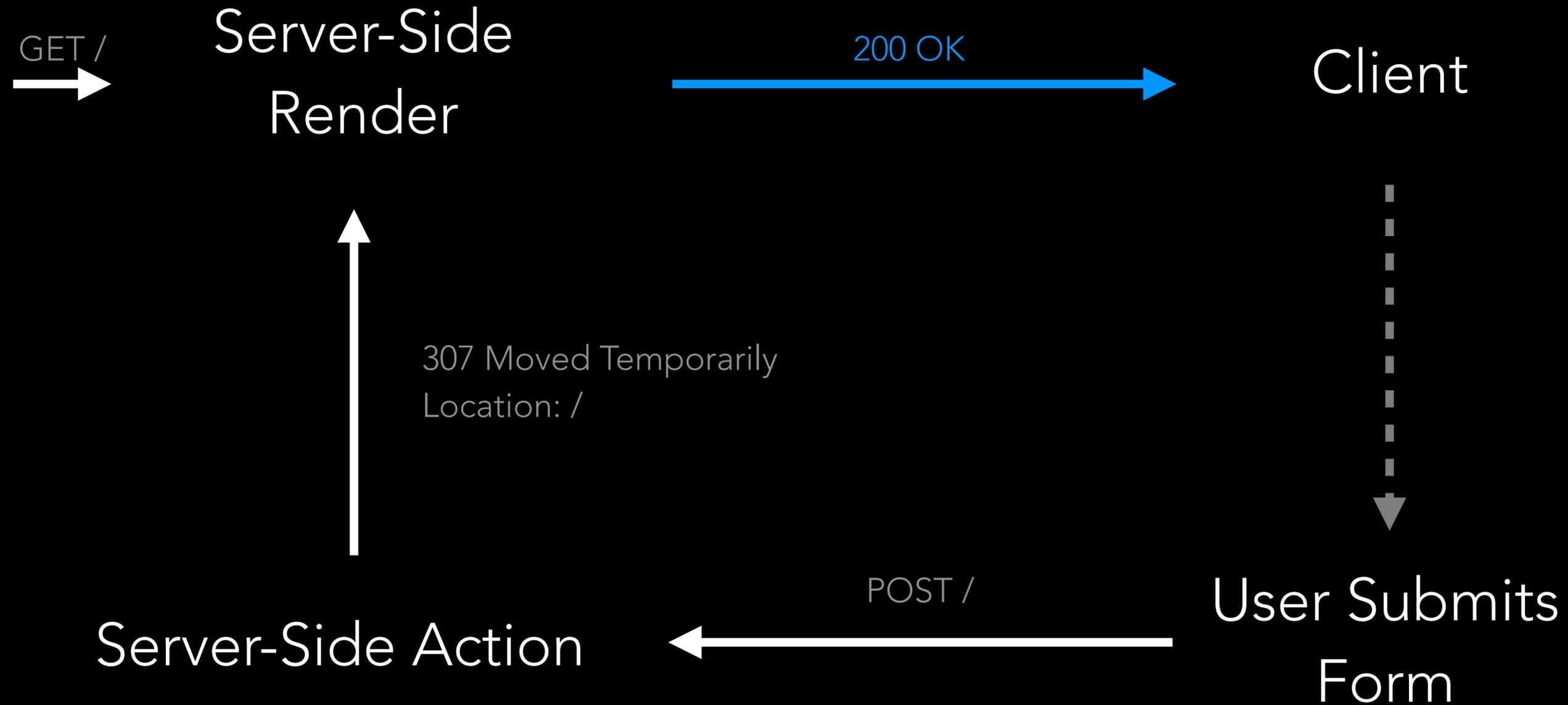
POST-AND-REDIRECT



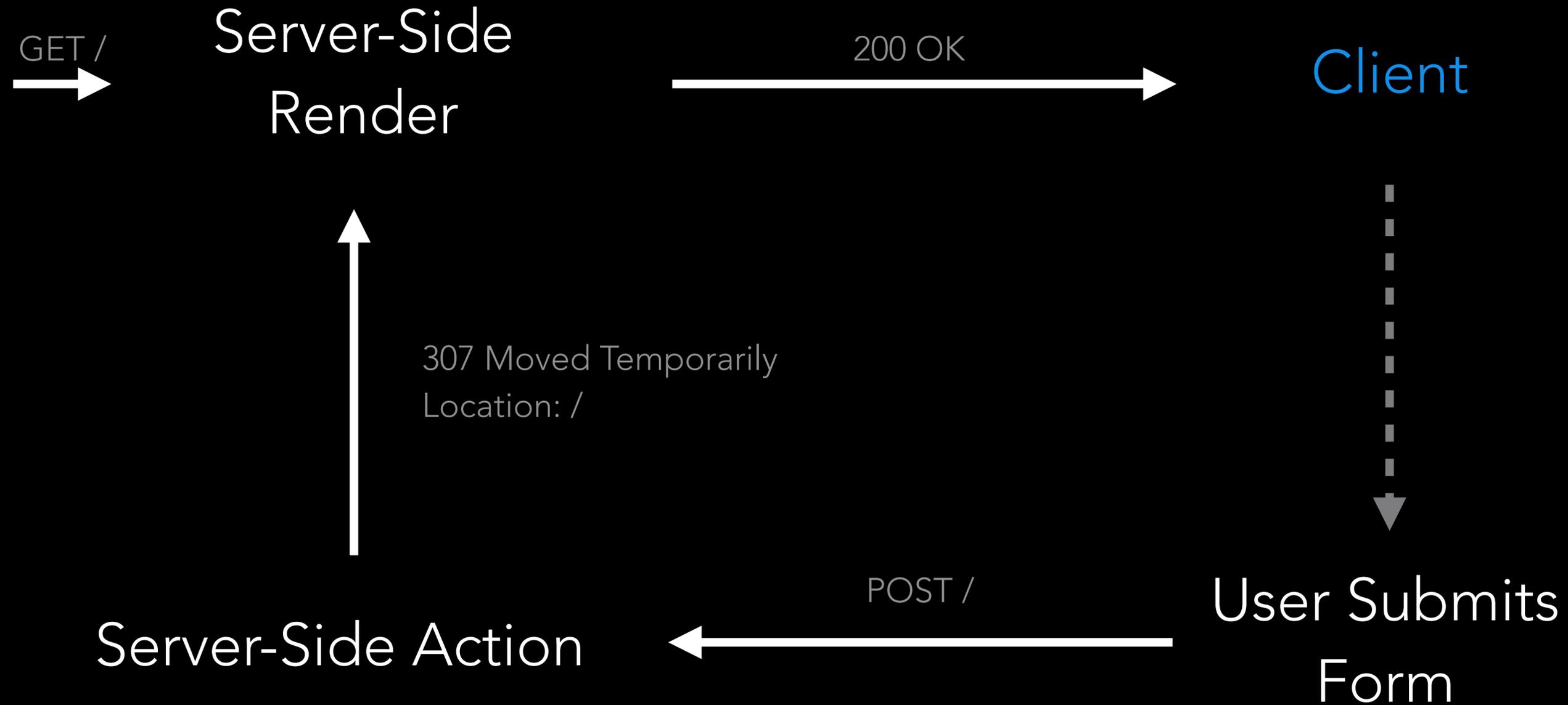
POST-AND-REDIRECT



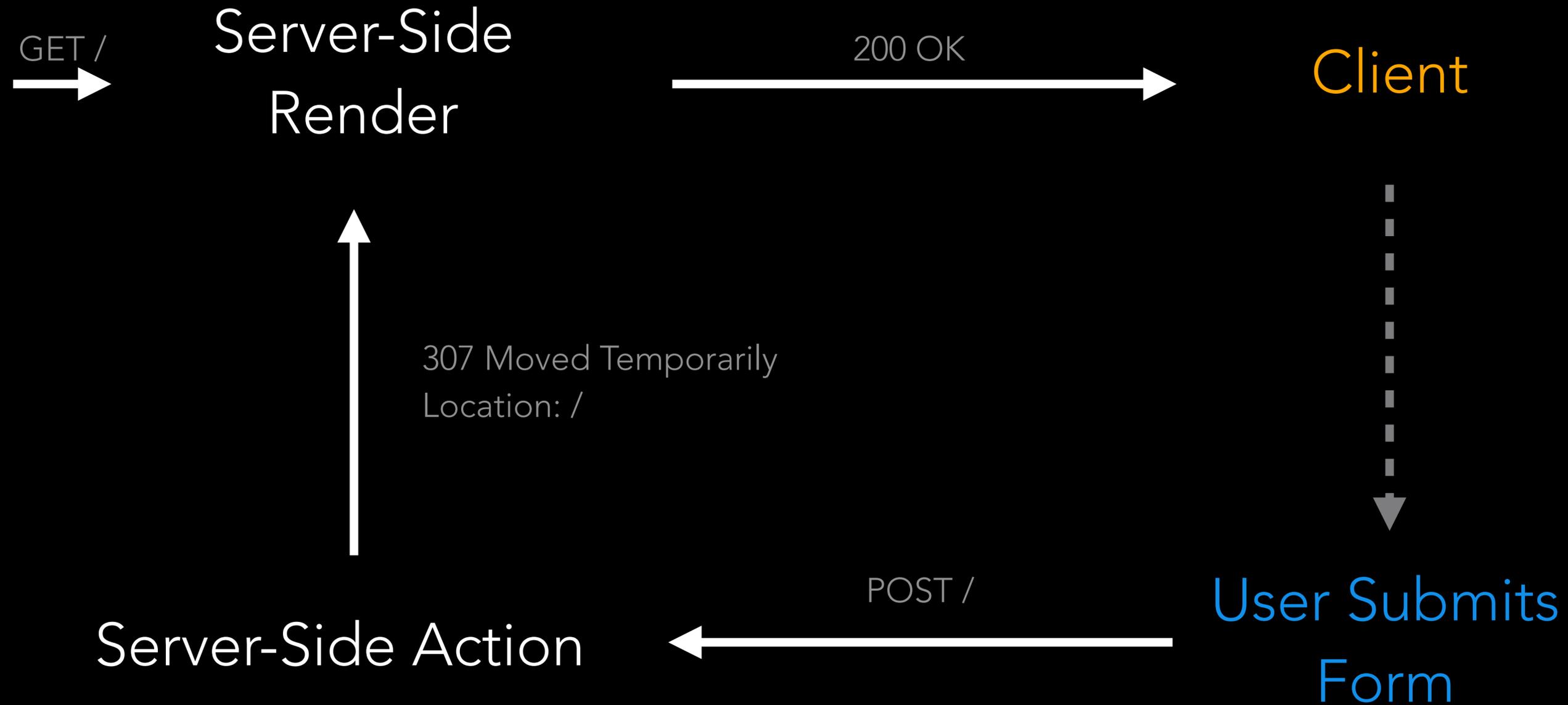
POST-AND-REDIRECT



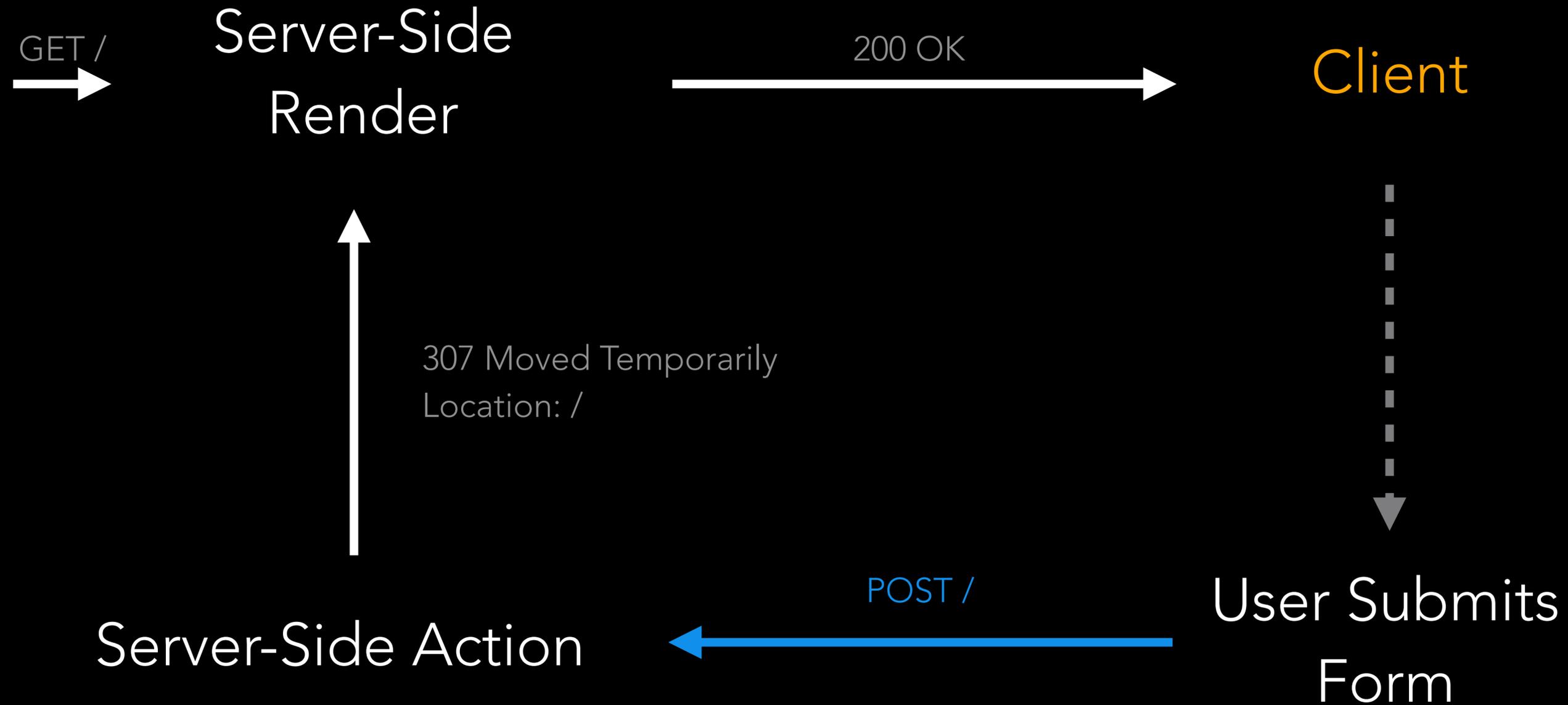
POST-AND-REDIRECT



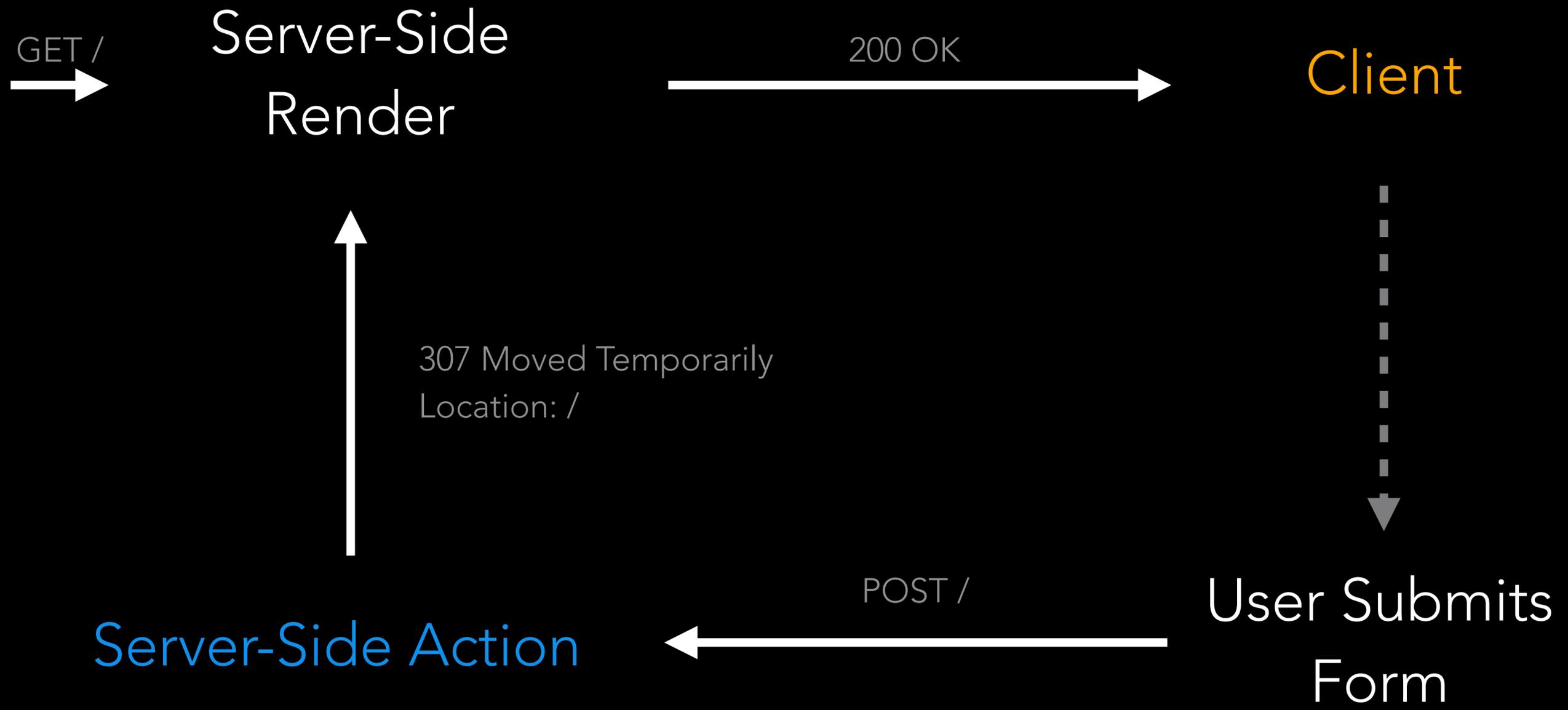
POST-AND-REDIRECT



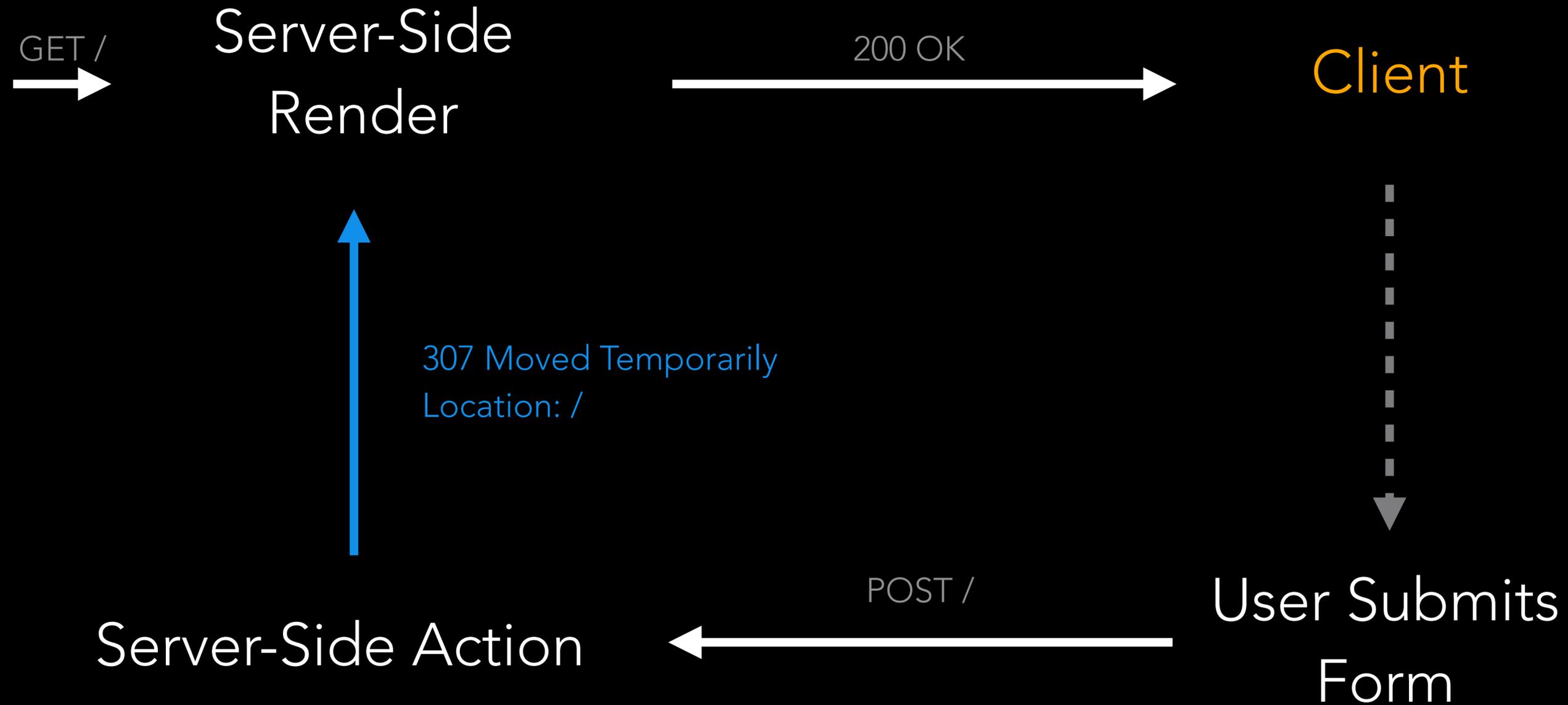
POST-AND-REDIRECT



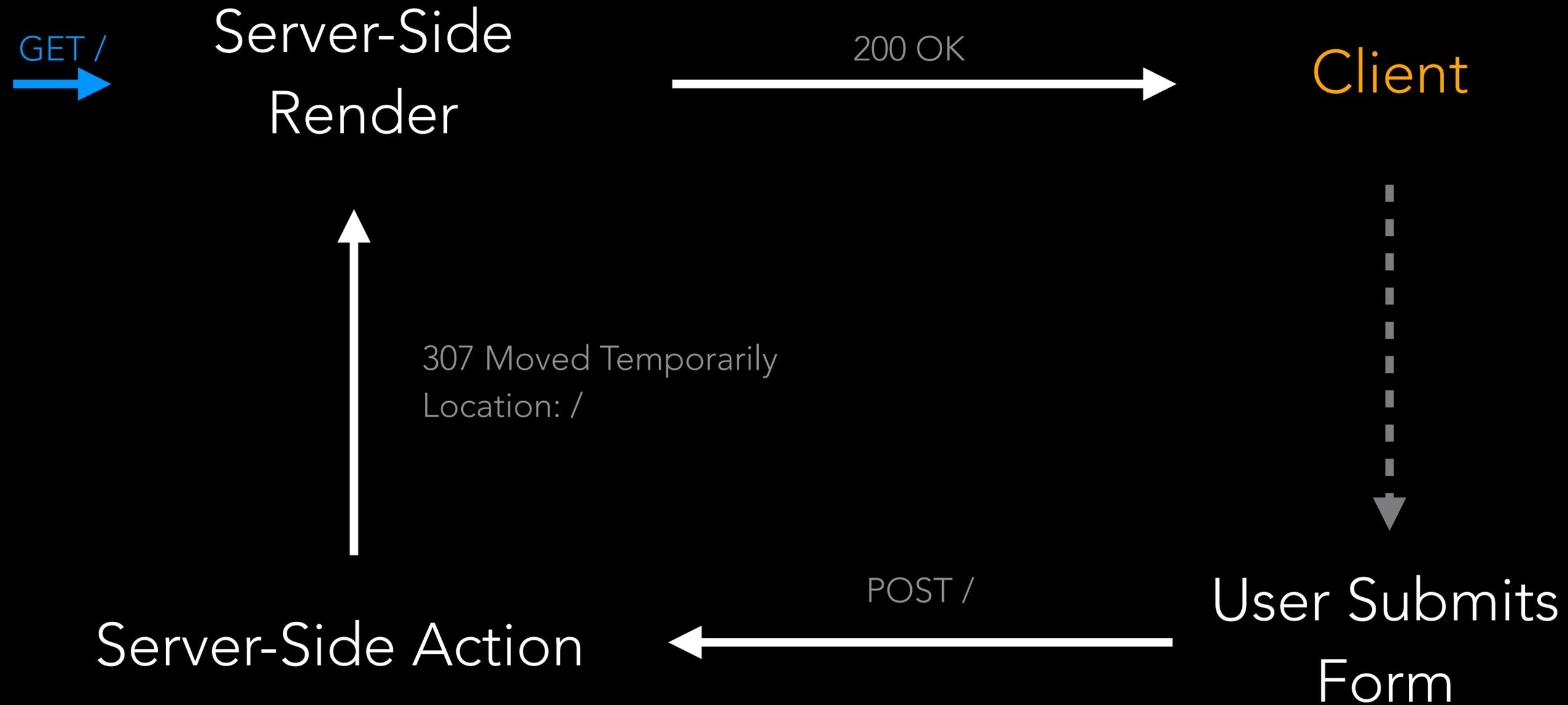
POST-AND-REDIRECT



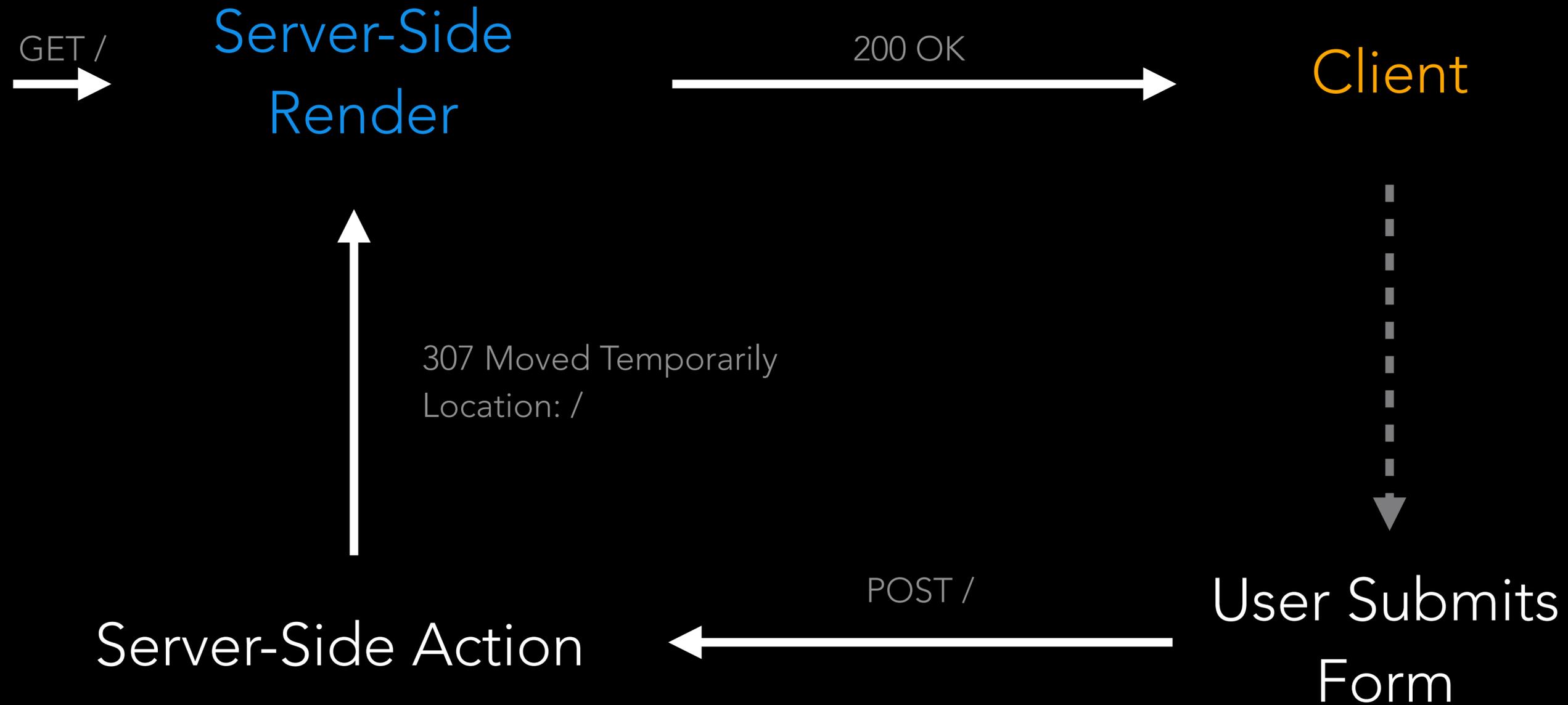
POST-AND-REDIRECT



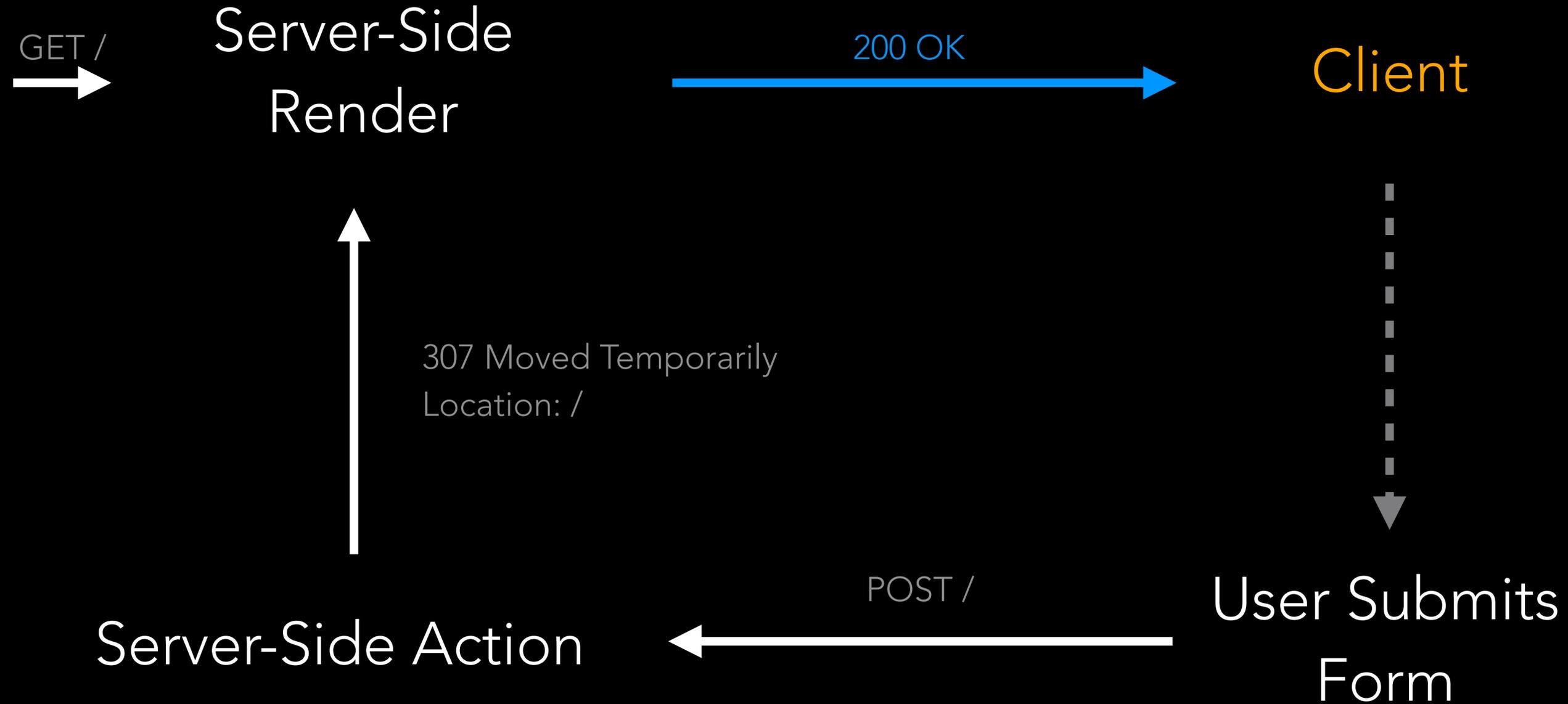
POST-AND-REDIRECT



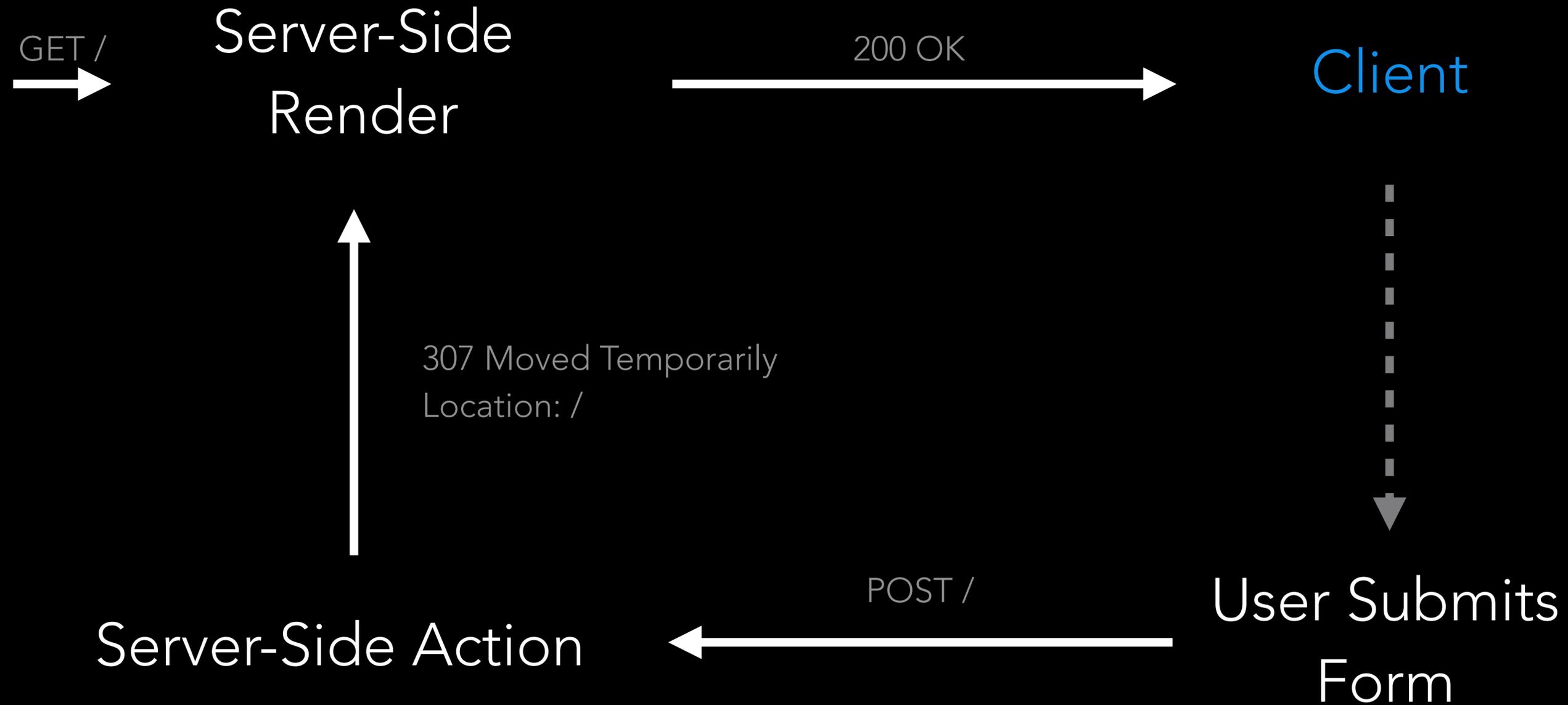
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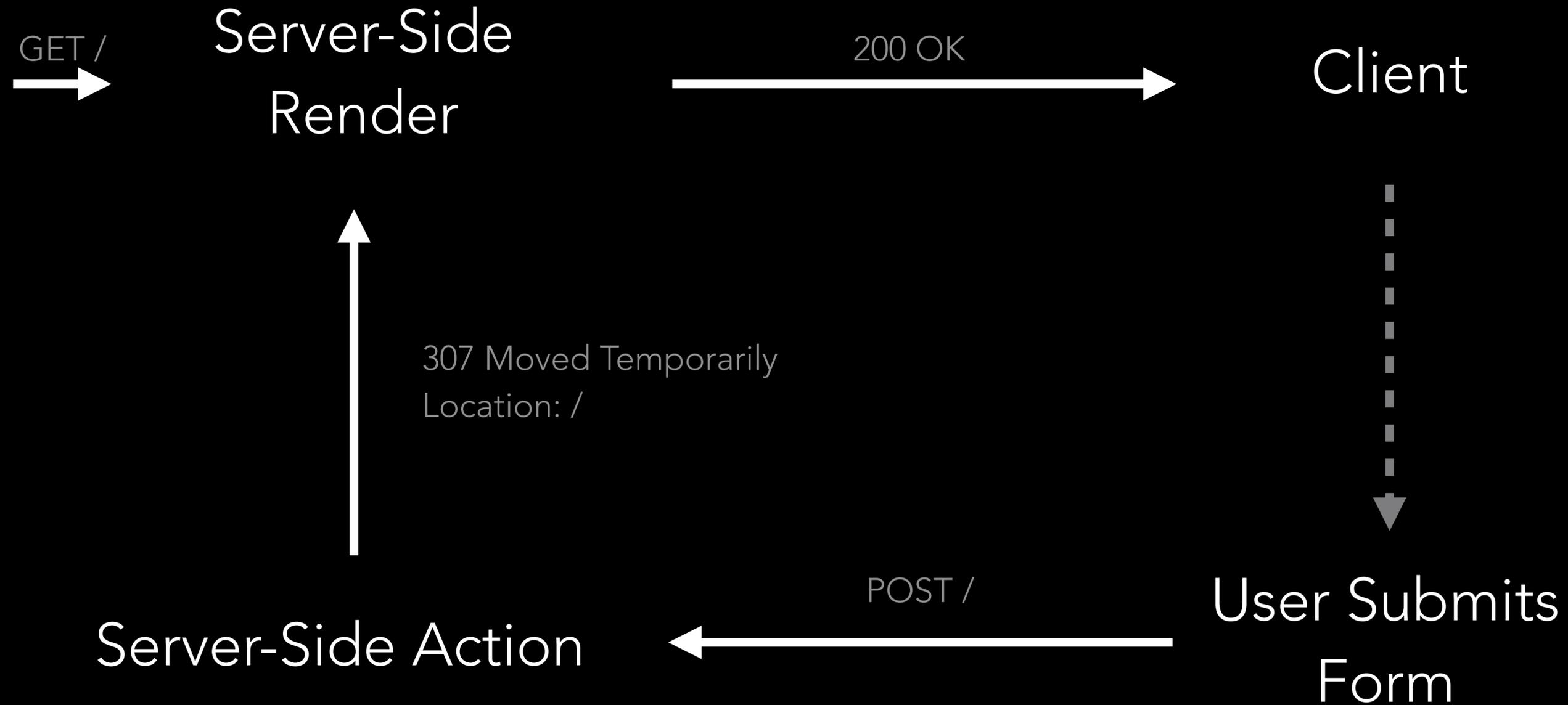
POST-AND-REDIRECT



POST-AND-REDIRECT

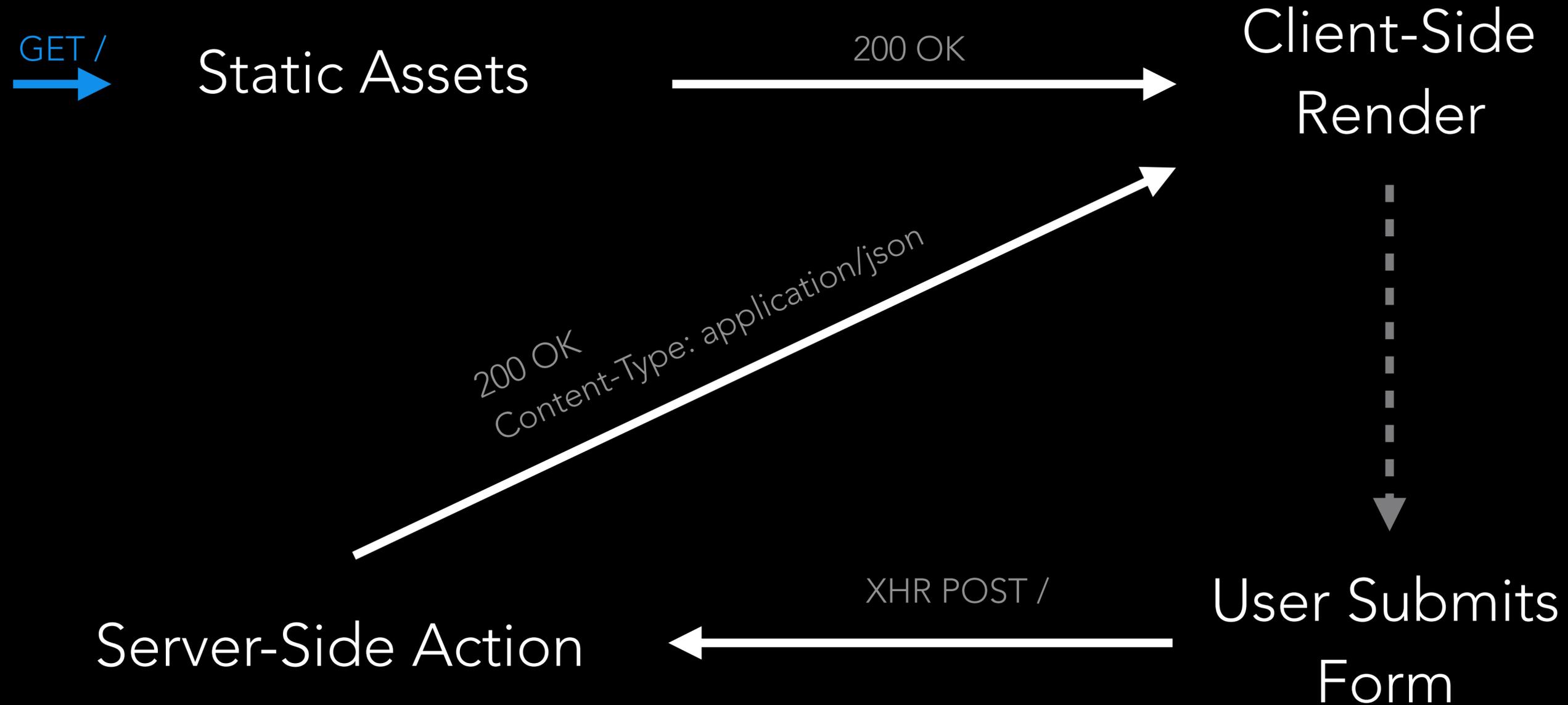


POST-AND-REDIRECT

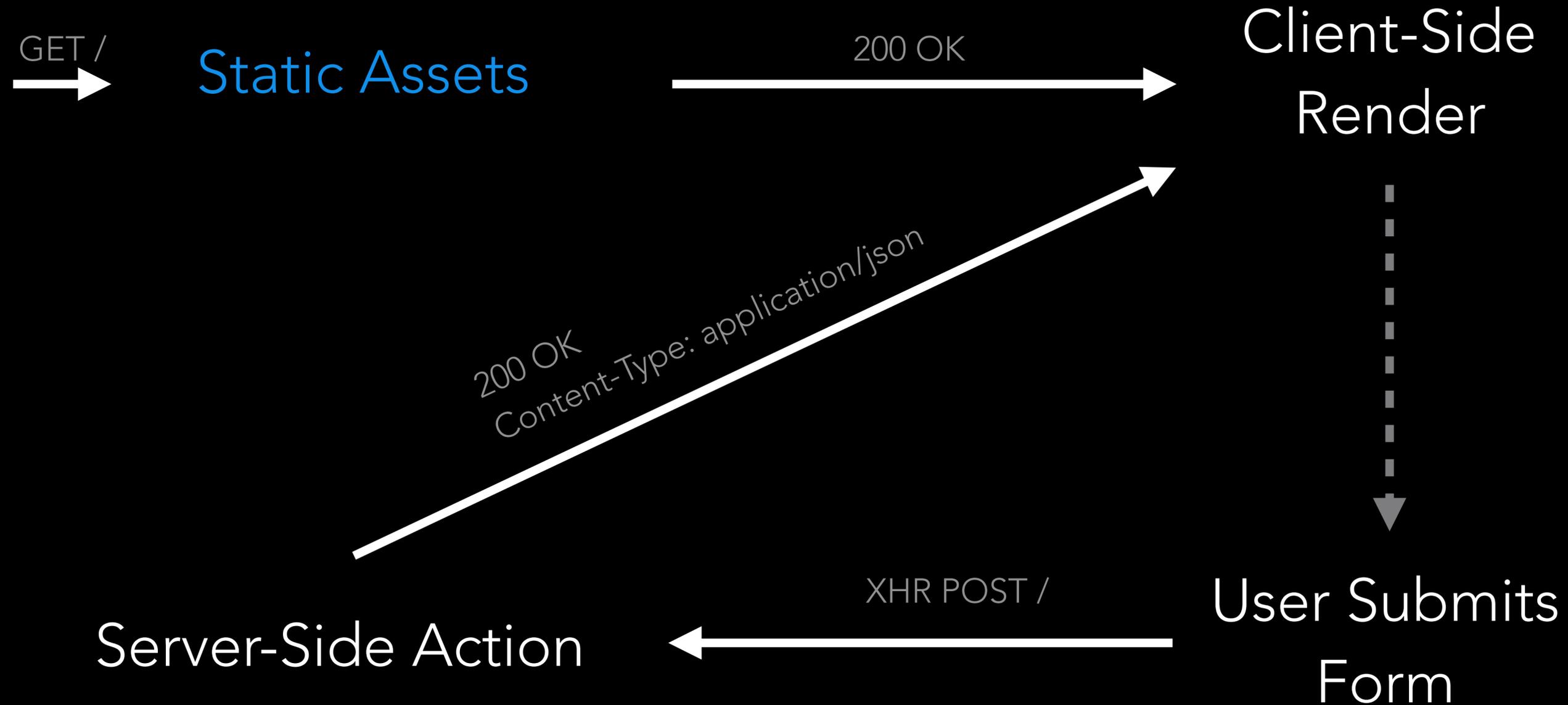


NOW, USING VUEJS

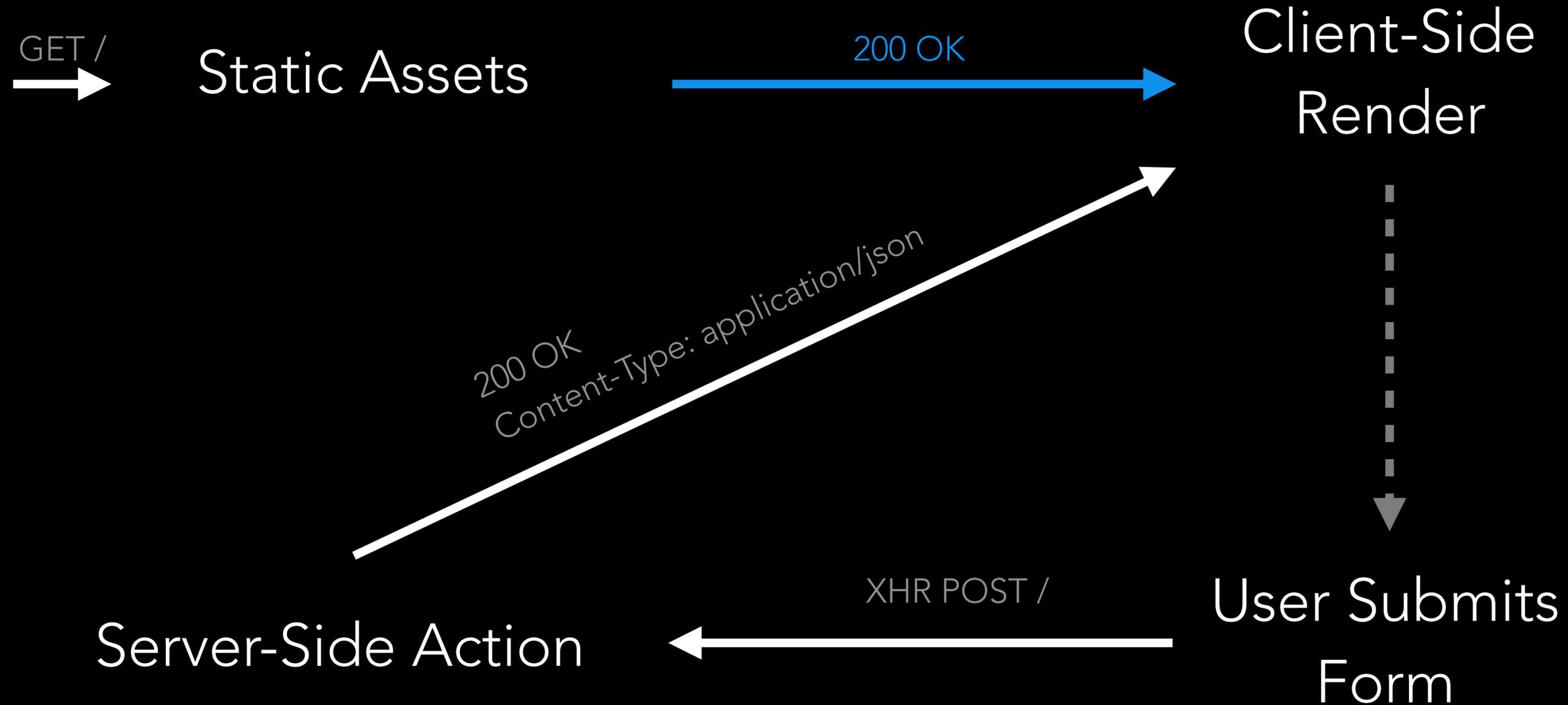
NOW, USING VUEJS



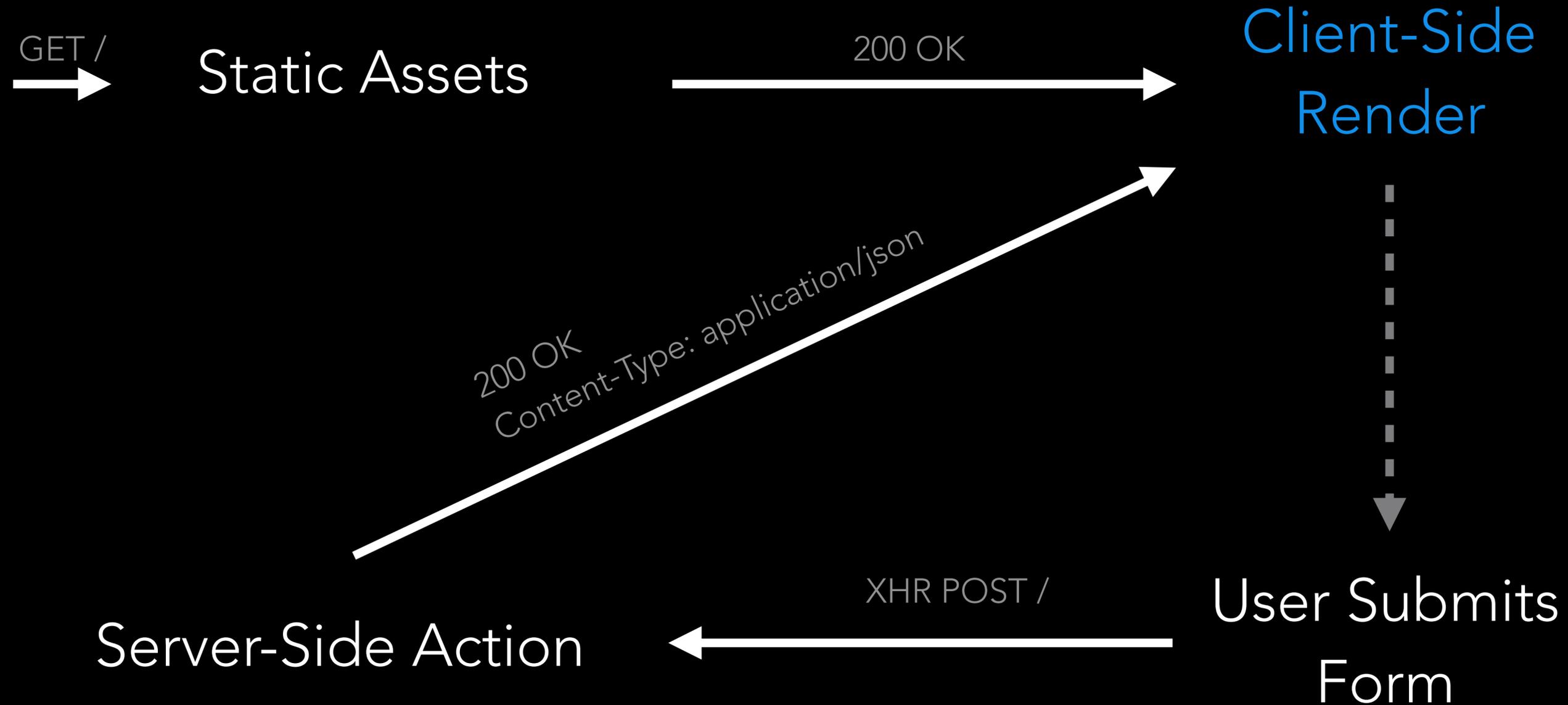
NOW, USING VUEJS



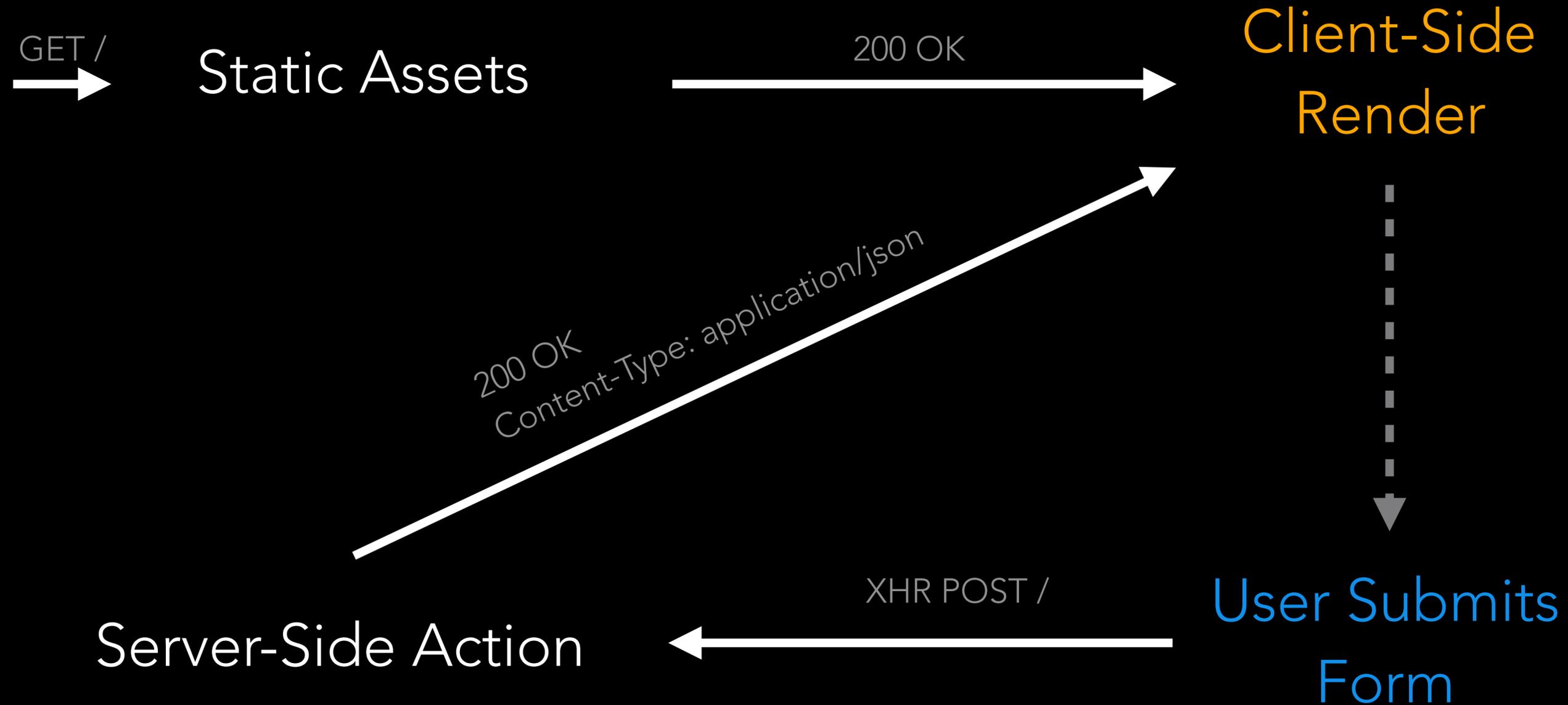
NOW, USING VUEJS



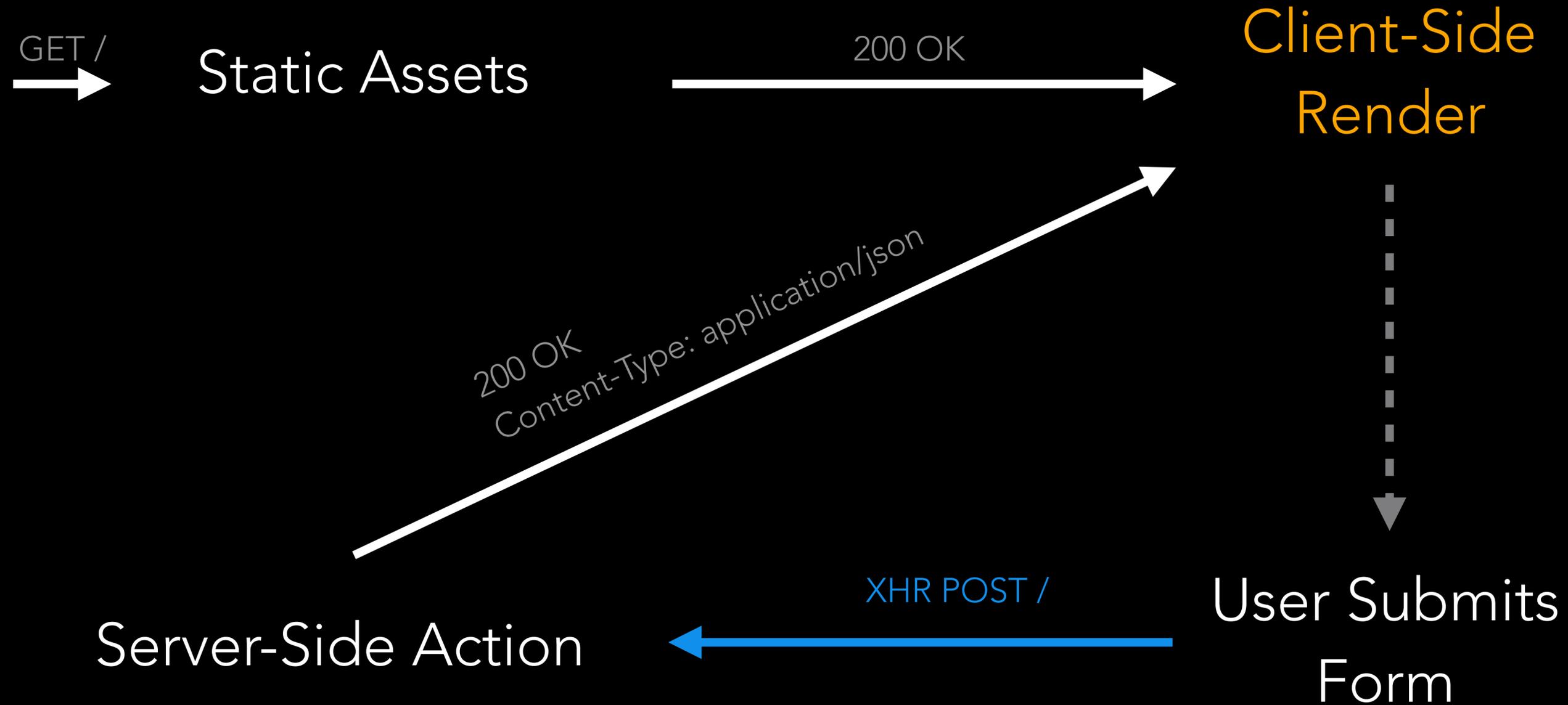
NOW, USING VUEJS



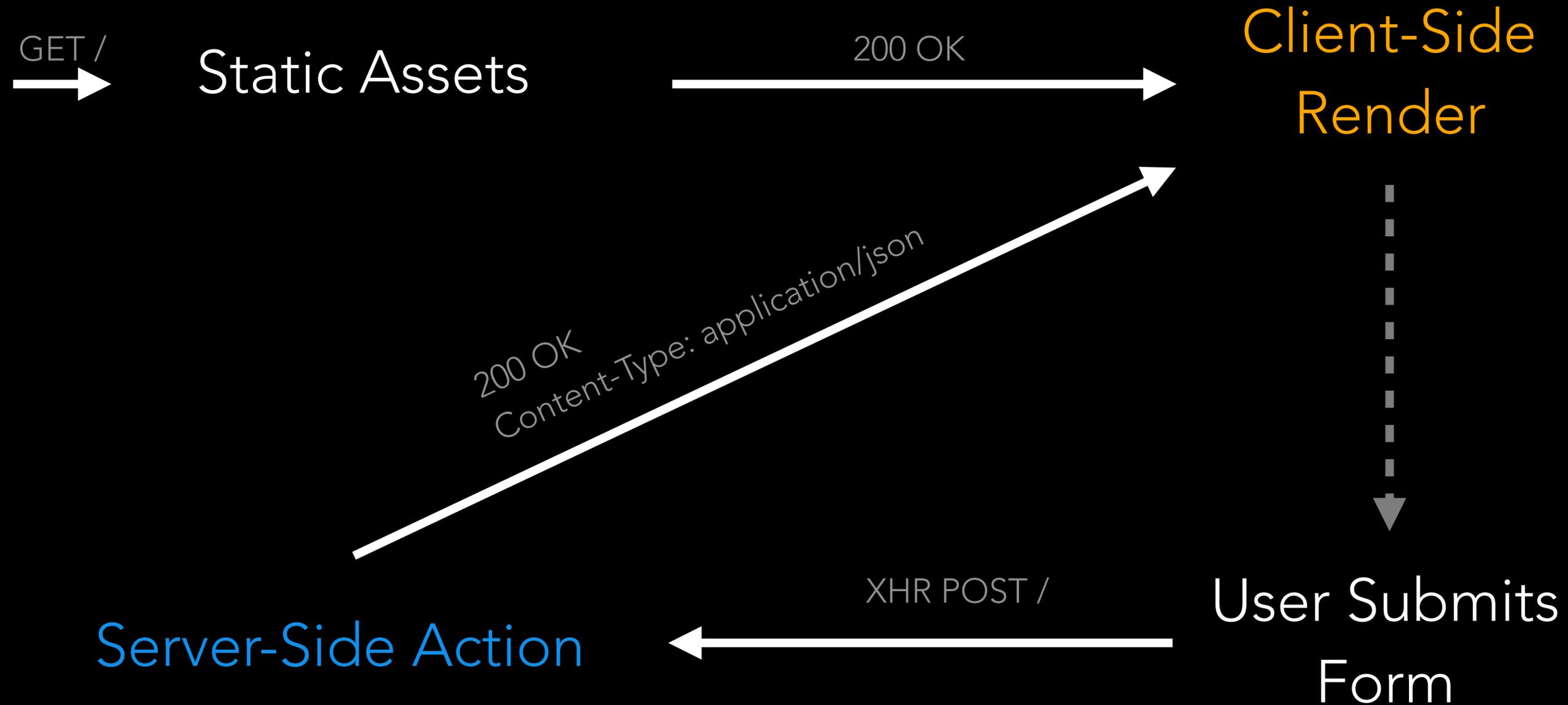
NOW, USING VUEJS



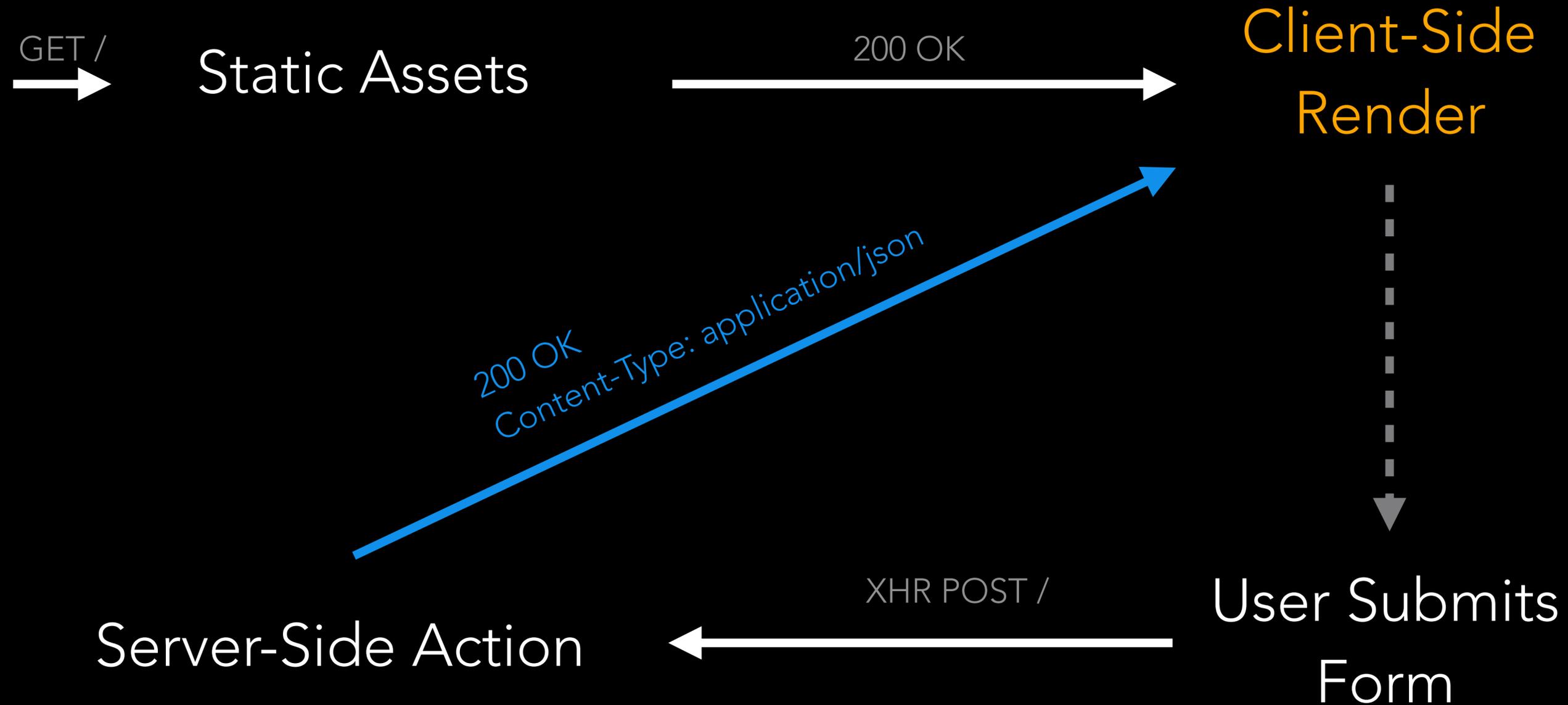
NOW, USING VUEJS



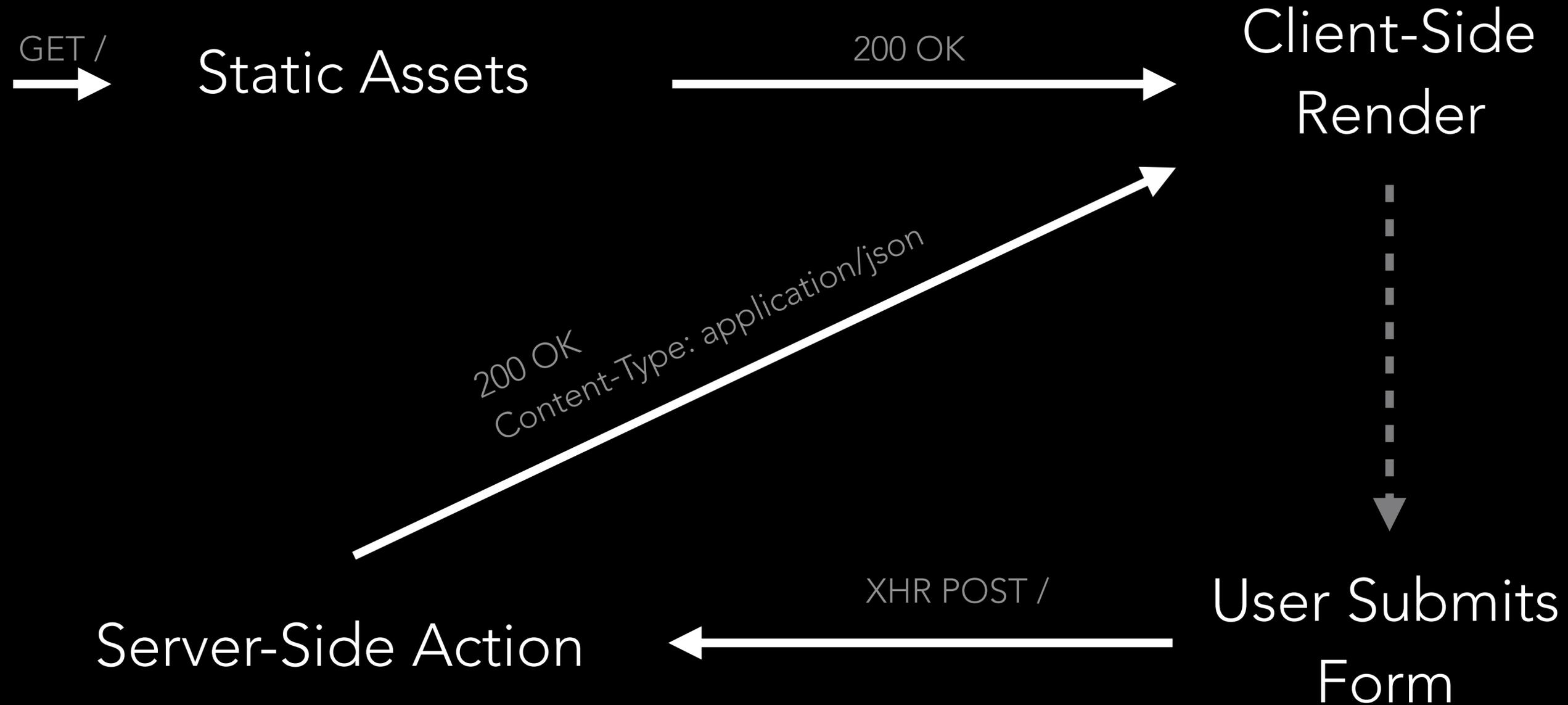
NOW, USING VUEJS



NOW, USING VUEJS



NOW, USING VUEJS



WHY IS THIS USEFUL?

- Reduced boilerplate javascript by updating page markup to reflect it's data model.
- Easily build responsive pages with XMLHttpRequest + JSON + Vue.js
- Save bandwidth by only requesting what's needed to view the updated page

1.3 - SERVER-SIDE?



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VUE.JS

SERVER-SIDE RENDERING

- Pre-render static marketing pages - [webpack](#)
- Server-side Rendering - [node](#)
 - Client-side Hydration

SERVER-SIDE RENDERING

- SEO benefits
- Initial page load performance

1.4 - APPLICATIONS



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VUE.JS

A MORE COMPLICATED TEMPLATE

```
1 <select
2   v-bind:name="question.name"
3   v-if="question.type == 'dropdown'"
4   v-model="responses[question.name]">
5   <option :value='undefined'>-- Please Select --</option>
6   <option
7     v-for="option in question.values"
8     :value="option.value || option">
9     {{option.name || option}}
10  </option>
11 </select>
```

QUESTIONS?

ONE MORE THING...

JSON

```
1 {
2   // Dates via unix timestamp
3   created: Date(1532571987475),
4
5   // Buffers stored in hex, ascii, etc.
6   data: Buffer('deadbeef', 'hex'),
7   name: Buffer('hello, world!', 'ascii'),
8
9   // Regular expressions
10  regex: RegExp('0x[a-f0-9]+', 'i'),
11
12  // Sets
13  set: Set([ 1,2,3,4 ]),
14
15  // Maps
16  map: Map([
17    ['abc', 'def'],
18    ['ghi', 'jkl']
19  ])
20 }
```

ISON - USE

