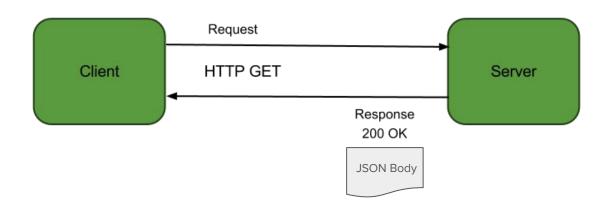
WEB SERVICES
With Axios & Vue



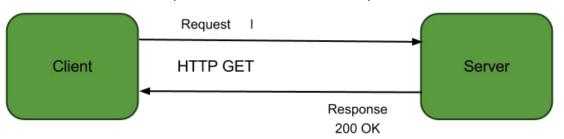
Can You?

- Explain the process of a typical HTTP request between a web browser and a server
- Explain what a GET request is used for
- Explain that a 2xx Status Code indicates "success"
- Make an HTTP GET request using Postman and inspect the result
- Explain what JSON is and use it in a JavaScript program
- Make an HTTP GET request to a RESTful web service using the Axios library and process the response
- Build a service object for interacting with a RESTful web service
- Use the Vue lifecycle hook created() to call a web service to retrieve data when a view is rendered
- Explain the difference between synchronous and asynchronous code
- Explain what a promise is and how it works
- Explain why asynchronous coding techniques are frequently used in JavaScript for interacting with server-side components



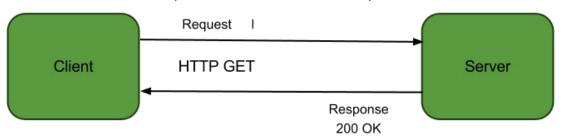


https://www.TechElevator.com/Campuses/Columbus/Instructors/JohnFulton



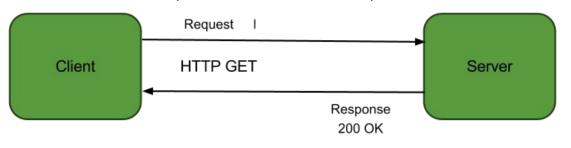
{ firstName: "John", lastName: "Fulton", classroom: ".NET", isAwesome: true}

https://www.TechElevator.com/Campuses/Columbus/Instructors/MattEland



{ firstName: "Matt", lastName: "Eland", classroom: "Wherever", isAwesome: undefined}

https://www.TechElevator.com/Campuses/Columbus/Instructors



```
[
{ firstName: "John", lastName: "Fulton", classroom: ".NET", isAwesome: true},
{ firstName: "Matt", lastName: "Eland", classroom: "Wherever", isAwesome: undefined},
// ... more instructors here
]
```

VERBS & RESOURCES



STATUS CODES



HTTP STATUS CODES

2xx Success

200 Success / OK

3xx Redirection

- 301 Permanent Redirect
- 302 Temporary Redirect
- 304 Not Modified

4xx Client Error

- 401 Unauthorized Error
- 403 Forbidden
- 404 Not Found
- 405 Method Not Allowed

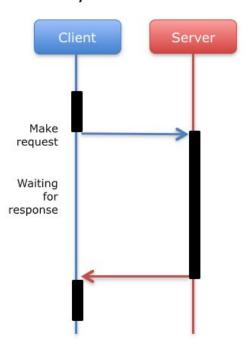
5xx Server Error

- 501 Not Implemented
- 502 Bad Gateway
- 503 Service Unavailable
- 504 Gateway Timeout

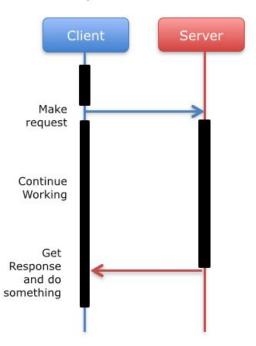
SYNCHRONOUS & ASYNCHRONOUS

SYNC VS ASYNC

Synchronous



Asynchronous

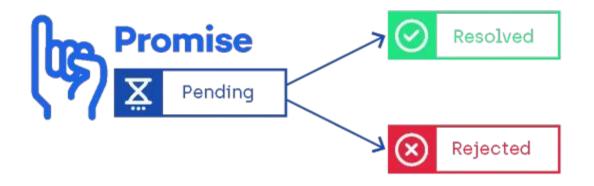


AXIOS

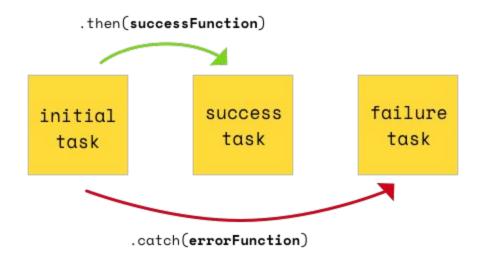
AXIOS GET

```
1 /**
2 * Gets all items on the server
3 * @returns {Promise} a promise that will complete with a list of items
4 */
5 getAllItems() {
6    // Create our Axios instance used to communicate with the server
7    const http = axios.create({
8        baseURL: 'https://some.website.com'
9    });
10
11    return http.get('/items'); // This is added to the end of baseURL specified above
12 }
```

WHAT IS A PROMISE?



USING A PROMISE



AXIOS GET

```
1 /**
2 * Gets all items on the server
3 * @returns {Promise} a promise that will complete with a list of items
4 */
5 getAllItems() {
6    // Create our Axios instance used to communicate with the server
7    const http = axios.create({
8        baseURL: 'https://some.website.com'
9    });
10
11    return http.get('/items'); // This is added to the end of baseURL specified above
12 }
```

```
1 getAllItems().then(response => {
2    // response.data is loaded from the contents of the response body
3    // It's typically going to be a JavaScript object or an array of objects
4    const items = response.data;
5    this.$store.commit('ITEMS_LOADED', items);
6  });
```

PROMISE ERROR HANDLING

SERVICES

```
1 import axios from 'axios';
 3 // Create our Axios instance used to communicate with the server
 4 const http = axios.create({
 5 baseURL: 'https://some.url.net'
 6 });
 8 export default { // This object is what other files will import via the import keyword
       getAllItems() {
10
11
         return <a href="http.get('/items');">http.get('/items');</a> // This is added to the end of baseURL specified above
12
       },
13
       getItem(id) {
       return http.get(`/items/${id}`);
16
      },
17
      update(myItem) {
19
         return http.put(`/items/${myItem.id}`, myItem);
      },
20
       create(myItem) {
         return http.post('/items', myItem);
23
24
       },
25
26
      delete(myItem) {
27
         return http.delete(`/items/${myItem.id}`);
28
29
    };
30
```

AXIOS VERBS

```
getItem(id) {
  return http.get(`/items/${id}`);
},
update(myItem) {
  return http.put(`/items/${myItem.id}`, myItem);
},
create(myItem) {
  return http.post('/items', myItem);
},
delete(myItem) {
  return http.delete(`/items/${myItem.id}`);
```

HAPPY CODING!

