Fetch

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Fetch

- XMLHttpRequest() is quite cumbersome and outdated
 - Has been made palatable by wrapping it appropriately in most JavaScript libraries like jQuery as Ajax
- The Fetch API is a modern replacement for XMLHttpRequest
 - Provides an interface for fetching resources (including across the network)
 - More powerful and flexible feature set
 - Promise based

Fetch Abstractions

- Request: Represents a resource request
- Response: Represents the response to a request
- Headers: Represents response/request headers, allowing you to query them and take different actions depending on the results
- Body: Provides methods relating to the body of the response/request, allowing you to declare what its content type is and how it should be handled

Fetch Usage

```
fetch(baseUrl + 'dishes')
.then(response => response.json())
.then(data => console.log(data))
.catch(error => console.log(error.message));
```

Fetch Posting Data

```
fetch(baseUrl + 'comments', {
 method: 'POST',
 body: JSON.stringify(newComment),
 headers: {
     'Content-Type': 'application/json'
 credentials: 'same-origin'
```

Fetch Dealing with Errors

```
fetch(baseUrl + 'dishes')
     .then(response => {
              if (response.ok) {
                       return response;
              else {
                       var error = new Error('Error' + response.status + ': ' + response.statusText);
                       error.response = response;
                       throw error;
     error => {
              var errmess = new Error(error.message);
              throw errmess;
      .then(response => response.json())
     .then(data => console.log(data))
      .catch(error => console.log(error.message));
```

Cross-Fetch

- Cross-Fetch library provides support for Fetch both in Node applications and Browsers
 - Uses whatwg-fetch polyfill in browsers that do not have fetch support
 - Uses node-fetch for Node applications on the server
- To use in the application: import fetch from 'cross-fetch';

Fetch Alternatives

- Axios
- Superagent