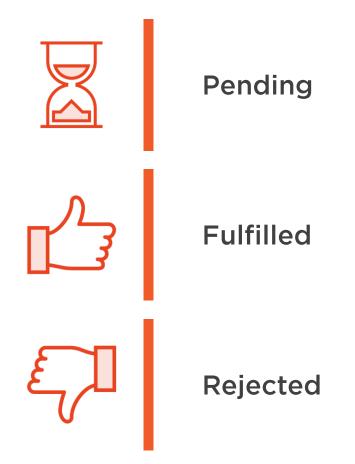
Creating and Queuing Promises



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Promise States



A pending promise is a promise that has not yet settled



Promise

Object that represents the eventual completion (or failure) of an asynchronous operation, and its resulting value.

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global Objects/Promise



promise.js

A Promise Object

let temp = new Promise();

Understanding Promise States



Promise States





If the associated promise has already been resolved, either to a value, a rejection, or another promise, this method [resolve] does nothing.

https://developer.mozilla.org/en-US/docs/Mozilla/JavaScript_code_modules/Promise.jsm/Promise



Rejecting a Promise



You have the power to control how a promise is settled



Waiting for All Promises to Resolve

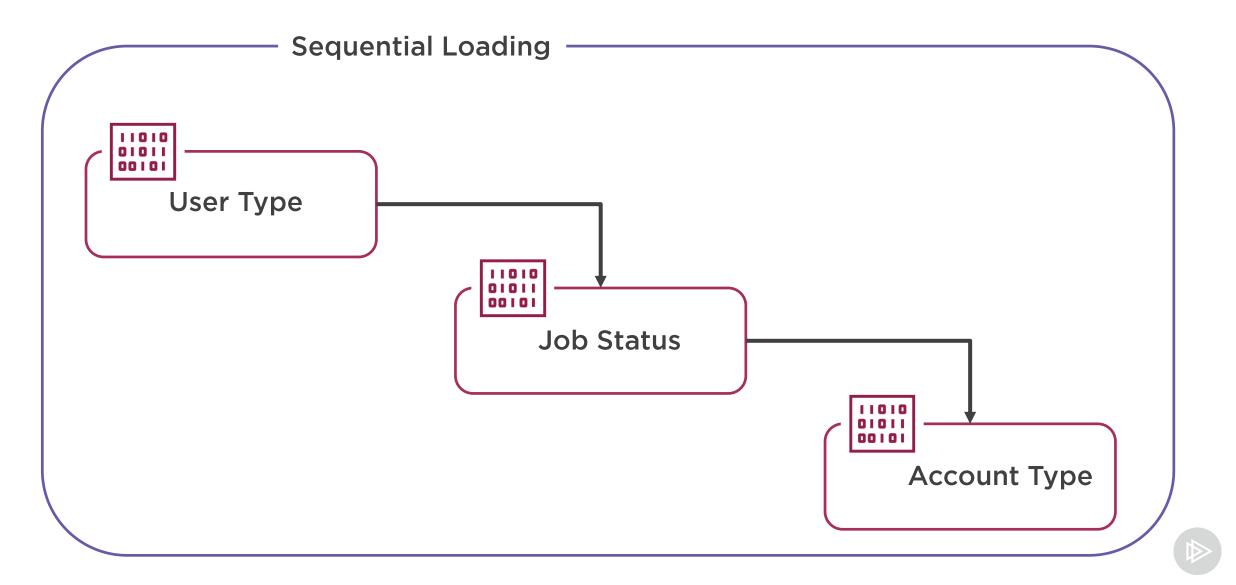


Metadata Types

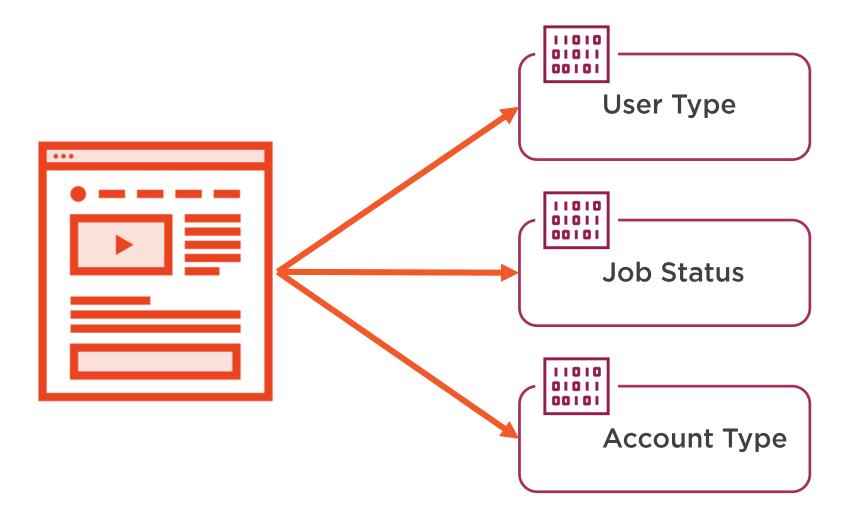
Job Type **Job Status Account Type**



Loading Metadata



Power of Asynchronous Programming





Settling All Promises



How Is all Settled Different?

Different Data Returned



allSettled Returned Data

```
resolved.js
status: "fulfilled",
value: {}
```

```
rejected.js
status: "rejected",
reason: {}
```

How Is all Settled Different?

Different Data Returned

Don't *Need* a Catch



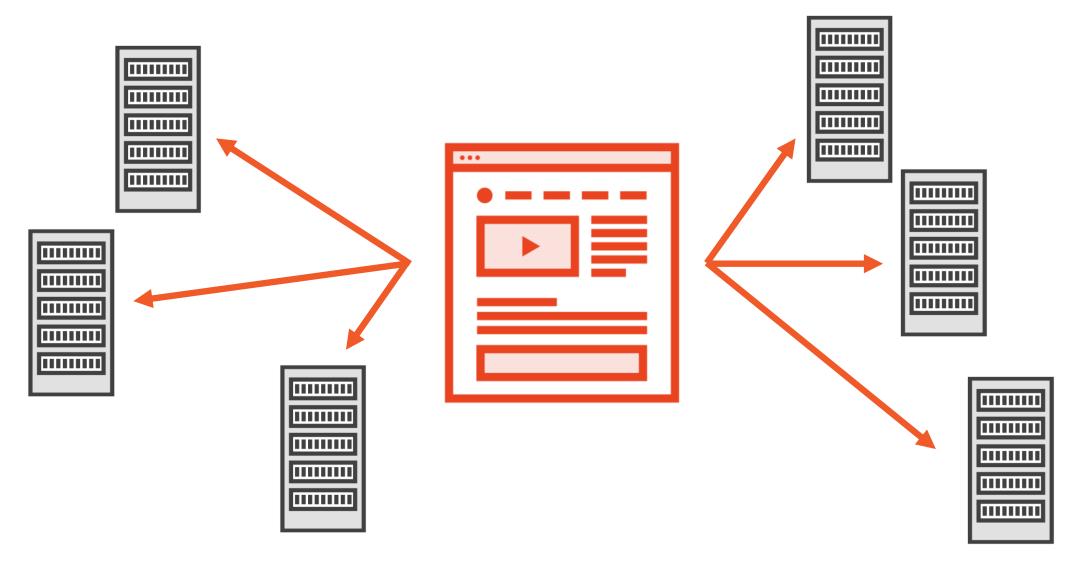
A catch block is recommended



Racing Promises



Using the Closest Endpoint



Using the Closest Endpoint



"race" is a rare function



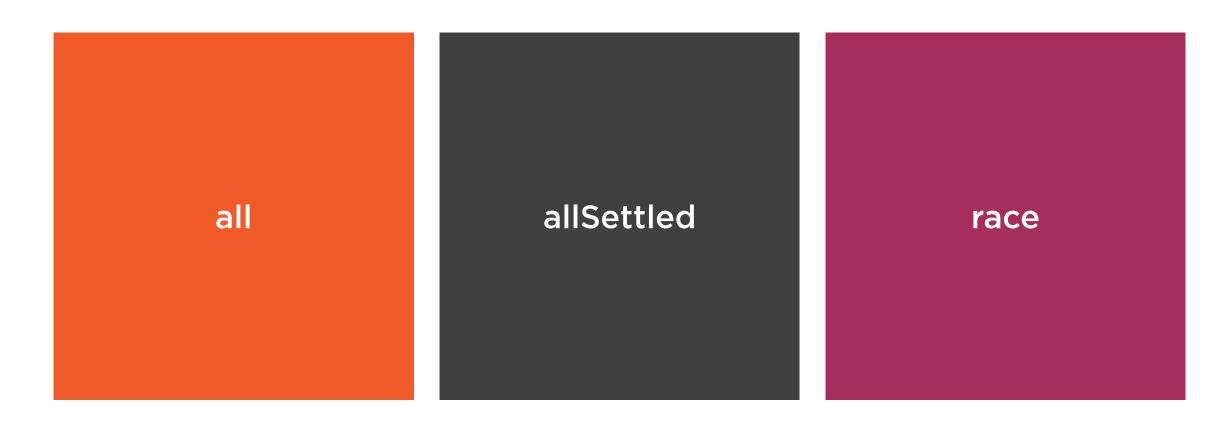
promise.js

```
let promise = new Promise();
```

promise.js

```
let promise = new Promise((resolve, reject) => {});
```

Ways to Queue Promises







Secrets of async/await

