✦ AI Overview   ⋮

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JavaScript's `AggregateError` is a special type of error that allows developers to represent **multiple errors within a single error object**. It is primarily used in scenarios where an operation can fail in multiple ways concurrently, such as when using asynchronous methods like `Promise.any()` . 🔗

How it Works

The `AggregateError` object behaves like an `Error` but also includes an `errors` property, which is an array containing all the individual errors that occurred. 🔗

- **Consolidated Reporting:** Instead of stopping execution at the first error or requiring complex individual error handling, `AggregateError` collects all failures. This improves the user experience by allowing a developer to display all validation errors at once, for example.

- **Asynchronous Operations:** The most common built-in use case is `Promise.any()` . This function returns the first promise that resolves successfully. If *all* promises reject, `Promise.any()` throws a single `AggregateError` containing all the rejection reasons.

- **Custom Use Cases:** Developers can manually create and throw an `AggregateError` in their own code, for instance, when validating multiple fields in a form. 🔗

Key Features

- `errors` **Property:** An array that holds the collection of individual `Error` objects (or other non-Error values).

- **Constructor:** It is created using `new AggregateError(errorsIterable, message)` , where `errorsIterable` is an iterable (like an array) of errors and `message` is an optional human-readable description.

- **Inheritance:** `AggregateError` is a subclass of the built-in `Error` object, meaning it inherits standard error properties like `name` ("AggregateError") and `message` , and is caught in standard `try...catch` blocks. 🔗

Example Usage

```javascript
// Function that returns a promise which always rejects
function alwaysReject(message) {
  return Promise.reject(new Error(message));
}

// Use Promise.any() with multiple failing promises
try {
  await Promise.any([
    alwaysReject('First attempt failed'),
    alwaysReject('Second attempt failed'),
    alwaysReject('Third attempt failed')
  ]);
} catch (error) {
  // The 'catch' block receives an AggregateError
  console.log(error instanceof AggregateError); // true
  console.log(error.message); // e.g., "All promises were rejected" (browser dep

  // Iterate over the specific reasons for failure
  for (const individualError of error.errors) {
    console.error(individualError.message);
    // "First attempt failed"
    // "Second attempt failed"
    // "Third attempt failed"
  }
}
```

For more details and examples, refer to the [MDN Web Docs on AggregateError.](#) 🔗

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