

JavaScript Promise APIs

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1. Promise.all

- Accepts an array of promises.
- Waits for all promises to either resolve or for one to reject.

Cases:

a) All success:

- Returns an array of results (e.g., [val1, val2, val3]).

b) Any rejection:

- If one promise rejects, it immediately rejects with that error and stops further execution.

2. Promise.allSettled

- Accepts an array of promises.
- Waits for all promises to settle (whether resolved or rejected).

Cases:

a) All success:

- Returns an array of objects with {status: 'fulfilled', value: ...}.

b) Any failure:

- Returns an array of objects with {status: 'rejected', reason: ...} for failures.

3. Promise.race

JavaScript Promise APIs

- Accepts an array of promises.
- Returns the result of the first promise to settle (whether resolved or rejected).

Note: It's like a race - whichever promise resolves/rejects first determines the output.

4. Promise.any

- Accepts an array of promises.
- Returns the result of the first promise to successfully resolve.
- If all promises reject, it returns an `AggregateError` with all errors.