

### Q1 [Interview] What is HTTP?

Ans: HyperText Transfer Protocol used for communication over the web.

### Q2 [Interview] Name some HTTP methods.

Ans: GET, POST, PUT, DELETE, PATCH

### Q3 [Interview] What is status code 200?

Ans: Success.

### Q4 [Interview] What is status code 404?

Ans: Not Found.

### Q5 [Interview] What is JSON?

Ans: JavaScript Object Notation, a lightweight data format.

### Q6 [Interview] How do you parse JSON?

Ans: Use `JSON.parse()`.

```
JSON.parse('{"name": "John"}')
```

### Q7 [Interview] How do you stringify an object?

Ans: Use `JSON.stringify()`.

### Q8 [Interview] What is AJAX?

Ans: Asynchronous JavaScript and XML, used for dynamic content loading.

### Q9 [Interview] What is XMLHttpRequest?

Ans: An older API for AJAX.

### Q10 [Interview] What is fetch()?

Ans: Modern promise-based AJAX API.

### Q11 [Interview] What is a Promise?

Ans: An object representing the eventual completion or failure of an async operation.

### Q12 [Interview] What does .then() do?

Ans: Handles resolved Promise result.

### Q13 [Interview] What does .catch() do?

Ans: Handles rejected Promise result.

### Q14 [Interview] What is async/await?

Ans: Syntax sugar for working with promises.

### Q15 [Interview] Is fetch() async?

Ans: Yes, it returns a promise.

### Q16 [DSA] Fetch data from API using fetch().

Ans:

```
fetch('https://api.example.com/data')  
  .then(res => res.json())
```

```
.then(data => console.log(data));
```

### Q17 [DSA] POST data to API with fetch.

Ans:

```
fetch('/submit', {  
  method: 'POST',  
  body: JSON.stringify(data),  
  headers: { 'Content-Type': 'application/json' }  
})
```

### Q18 [DSA] Create custom Promise that resolves in 2s.

Ans:

```
new Promise(res => setTimeout(() => res('Done'), 2000));
```

### Q19 [DSA] Chain multiple fetch calls.

Ans:

### Q20 [DSA] Handle fetch error with .catch().

Ans:

### Q21 [DSA] Convert object to JSON before sending.

Ans:

### Q22 [DSA] Display loading while waiting for fetch.

Ans:

### Q23 [DSA] Abort fetch request using AbortController.

Ans:

### Q24 [DSA] Retry fetch on failure.

Ans:

### Q25 [DSA] Create wrapper function to fetch + parse JSON.

Ans:

### Q26 [DSA] Validate API response before parsing.

Ans:

### Q27 [DSA] Use async/await to fetch and return data.

Ans:

### Q28 [DSA] Log status code of fetch.

Ans:

### Q29 [DSA] Create loader using fetch().

Ans:

### Q30 [DSA] Handle nested JSON fetch.

Ans:

**Q31 [LeetCode] typeof JSON**

Ans: 'object'

**Q32 [LeetCode] typeof fetch**

Ans: 'function'

**Q33 [LeetCode] JSON.parse('{}')**

Ans: returns {}

**Q34 [LeetCode] Promise.resolve(5).then(x => x)**

Ans: 5

**Q35 [LeetCode] Promise.reject('error').catch(e => e)**

Ans: 'error'

**Q36 [LeetCode] fetch returns?**

Ans: a Promise

**Q37 [LeetCode] async function always returns?**

Ans: a Promise

**Q38 [LeetCode] await 10 returns?**

Ans: 10

**Q39 [LeetCode] typeof XMLHttpRequest**

Ans: 'function'

**Q40 [LeetCode] JSON.stringify([1,2])**

Ans: '[1,2]'

**Q41 [Conceptual] Is fetch() better than XHR?**

Ans: Yes, modern and promise-based.

**Q42 [Conceptual] Can JSON.parse() fail?**

Ans: Yes, with invalid JSON.

**Q43 [Conceptual] Are Promises synchronous?**

Ans: No, they're async.

**Q44 [Conceptual] Can .then() return another Promise?**

Ans: Yes.

**Q45 [Conceptual] Can await only be used in async function?**

Ans: Yes.

**Q46 [Conceptual] Can fetch handle timeout?**

Ans: Only with AbortController.

**Q47 [Conceptual] What happens if fetch fails?**

Ans: Promise is rejected.

**Q48 [Conceptual] Can JSON have comments?**

Ans: No.

**Q49 [Conceptual] Is JSON valid JavaScript?**

Ans: Subset of JavaScript.

**Q50 [Conceptual] What does JSON stand for?**

Ans: JavaScript Object Notation.