

Document tabs

## interview question fo...

- API, JSON, Data Lode, Dy...
  - 1. What is an API?
  - 2. What are the HTTP ...
  - 3. Can you get use GE...
  - 4. What is the differe...
  - 5. What is JSON?
  - 6. What are CRUD op...
  - 7. What is the file exte...
  - 8. What are the data t...
  - 9. What is the role of ...
  - 10. Show how to pars...
  - 11. Tell us the differen...
- More About the javascrip...
- Key components:

## interview question fo...

- API, JSON, Data Lode, Dy...
  - 1. What is an API?
  - 2. What are the HTTP ...
  - 3. Can you get use GE...
  - 4. What is the differe...
  - 5. What is JSON?
  - 6. What are CRUD op...
  - 7. What is the file exte...
  - 8. What are the data t...
  - 9. What is the role of ...
    10. Show how to pars...

  - 11. Tell us the differen...
- More About the javascrip...
- Key components:

## interview question fo...

- API, JSON, Data Lode, Dy...
  - 1. What is an API?
  - 2. What are the HTTP ...
  - 3. Can you get use GE...
  - 4 What is the differe
  - 5. What is JSON?
  - 6. What are CRUD op...
  - 7. What is the file exte...
  - 8. What are the data t...
  - 9. What is the role of ...
  - 10. Show how to pars...11. Tell us the differen...
- More About the javascrip...
- .
- Key components:

## interview question fo...

API, JSON, Data Lode, Dy...

1. What is an API?

# API, JSON, Data Lode, Dynamic Website:

#### 1. What is an API?

Ans. An API (Application Programming Interface) is a tool that allows different software applications to communicate with each other, enabling them to request and share data or services efficiently.

Interview Questions

# 2. What are the HTTP Methods supported by REST?

Ans. REST supports the following HTTP methods:

- 1. GET Retrieve data.
- 2. POST Create new data.
- 3. PUT Update existing data.
- 4. PATCH Partially update data.
- 5. DELETE Remove data.

These methods correspond to standard CRUD operations: Create, Read, Update, and Delete.

## 3. Can you get use GET request instead of PUT to create a resource?

Ans. No, a GET request is used to retrieve data, while creating a resource requires a POST or PUT request.

#### 4. What is the difference between PUT and POST?

Ans

POST is used to create a new resource.

PUT is used to update or create an existing resource if it doesn't exist.

## 5. What is JSON?

Ans. JSON (JavaScript Object Notation) is a lightweight data format that stores and transfers data. It's easy for humans and machines to read and write, and it's commonly used in APIs to exchange information between a server and a client.

## 6. What are CRUD operations?

**Ans**. CRUD operations are the basic functions for interacting with a database or system:

- Create: Add new data.
- Read: Retrieve or view data.
- Update: Modify existing data.
- Delete: Remove data.

# 7. What is the file extension of JSON?

Ans. The file extension of JSON is .json.

# 8. What are the data types supported by JSON?

Ans. JSON supports the following data types:

- 1. String
- 2. Number (integer or floating-point)
- 3. Boolean (true or false)
- 4. Array
- 5. Object (key-value pairs)
- 6. Null

## 9. What is the role of JSON.stringify?

Ans. JSON.stringify is a JavaScript method that converts a JavaScript object or value into a JSON string. This is useful for sending data over a network, storing it in a file, or saving it in a database.

## 10. Show how to parse a JSON.

Ans. To parse a JSON string in JavaScript, you can use the JSON.parse() method. Here's a quick example:

const jsonString = '{"name": "John", "age": 30}';

- 2. What are the HTTP ...
- 3. Can you get use GE..
- 4. What is the differe...
- 5. What is JSON?
- 6. What are CRUD op...
- 7. What is the file exte...
- 8. What are the data t...
- 9. What is the role of ...
- 10. Show how to pars...
- io. onovi novi to paro...
- 11. Tell us the differen...

More About the javascrip...

Key components:

#### interview question fo...

- API, JSON, Data Lode, Dy...
  - 1. What is an API?
  - 2. What are the HTTP ...
  - 3. Can you get use GE...
  - 4. What is the differe...
  - 5. What is JSON?
  - 6. What are CRUD op...
  - 7. What is the file exte...
  - 8. What are the data t...
  - 9. What is the role of ...
  - 10. Show how to pars...
  - 11. Tell us the differen...

More About the javascrip...

Key components:

## interview question fo...

API, JSON, Data Lode, Dy...

- 1. What is an API?
- 2. What are the HTTP ...
- 3. Can you get use GE...
- 4. What is the differe...
- 5. What is JSON?
- 6. What are CRUD op...
- 7. What is the file exte...
- 8. What are the data t...
- 9. What is the role of ...10. Show how to pars...
- 11. Tell us the differen...
- More About the javascrip...

Key components:

## interview question fo...

API, JSON, Data Lode, Dv...

- 1. What is an API?
- 2. What are the HTTP ...
- 3. Can you get use GE...
- 4. What is the differe...
- 5. What is JSON?
- 6. What are CRUD op...
- 7. What is the file exte...
- What are the data t...

   What is the role of ....

const jsonObject = JSON.parse(jsonString);

console.log(jsonObject.name); // Output: John

console.log(jsonObject.age); // Output: 30

In this example, jsonString is a JSON-formatted string that gets converted into a JavaScript object called jsonObject.

#### 11. Tell us the difference between GET and POST.

Ans. The main differences between GET and POST are:

- GFT
  - Requests data from a specified resource.
  - Data is sent in the URL (query string), making it visible and limited in size.
  - Typically used for retrieving information (e.g., web pages).
- POST:
  - o Sends data to a server to create or update a resource.
  - Data is included in the request body, making it more secure and allowing larger amounts of data.
  - o Typically used for submitting forms or uploading files.

# More About the javascript concept:

1. Tell me something about the js engine v8 internal mechanism.

Ans. The V8 JavaScript engine, developed by Google, is used in browsers like Chrome and Node.js. It works by converting JavaScript code into machine code, rather than interpreting it line-by-line.

Key components:

- Parser: V8 first parses the JavaScript code into an abstract syntax tree (AST).
- 2. Ignition: This is the interpreter that generates bytecode from the AST, which is faster to execute than row JavaScript.
- TurboFan: The optimizing compiler that compiles the code's hot (frequently run) parts into highly optimised machine code.
- Garbage Collector: V8 has a garbage collector that manages memory by automatically freeing up memory that's no longer used.

By using these mechanisms, V8 provides high performance for running JavaScript.

2. What is an event loop in javascript?

Ans. In JavaScript, the event loop is a mechanism that handles asynchronous operations by continuously checking the call stack and callback queue. It ensures that functions in the queue are executed only when the stack is empty, allowing non-blocking operations like timers and I/O tasks to run efficiently.

3. If JavaScript is single-threaded, how does it handle asynchronous calls?

Ans. JavaScript handles asynchronous calls using its event loop. Although JavaScript is single-threaded, it uses a combination of callbacks, promises, and async/await to offload tasks like network requests or timers to the browser's Web APIs. Once these tasks are complete, the results are placed in the event queue, and the event loop picks them up when the main thread is free, ensuring non-blocking execution.

4. Differences between setTimeOut and SetInterval?

Ans. Here are the key differences between setTimeout and setInterval in JavaScript:

- 1. Purpose:
  - setTimeout: Executes a function once after a specified delay.
  - setInterval: Executes a function repeatedly at regular intervals.
- 2. Clearing:
  - o clearTimeout(): Stops a scheduled setTimeout.
  - clearInterval(): Stops the repeated execution of setInterval.

```
10. Show how to pars..
```

11. Tell us the differen...

More About the javascrip...

Key components:

## interview question fo...

API, JSON, Data Lode, Dy...

- 1. What is an API?
- 2. What are the HTTP ...
- 3. Can you get use GE...
- 4. What is the differe...
- 5. What is JSON?
- 6. What are CRUD op...
- 7. What is the file exte...
- 8. What are the data t...
- 9. What is the role of ...
- 10. Show how to pars...
- 11. Tell us the differen...

More About the javascrip...

Key components:

#### interview question fo...

APL JSON Data Lode Dv

- 1. What is an API?
- 2. What are the HTTP ...
- 3. Can you get use GE...
- 4. What is the differe...
- 5. What is JSON?
- 6. What are CRUD op...
- 7. What is the file exte...
- 8. What are the data t...
- 9. What is the role of ...
- 10. Show how to pars...
- 11. Tell us the differen...

More About the javascrip...

Key components:

# interview question fo...

API, JSON, Data Lode, Dy...

- 1. What is an API?
- 2. What are the HTTP ...
- 3. Can you get use GE...
- 4. What is the differe...
- 5. What is JSON?
- 6. What are CRUD op...
- 7 What is the file exte
- 8. What are the data t...
- 9 What is the role of
- 10. Show how to pars...
- 11. Tell us the differen... More About the javascrip...

Key components:

## interview question fo...

API, JSON, Data Lode, Dy...

## 5. Can you explain the difference between an async/await and promise?

Ans. The main difference between async/await and Promises is in how they handle asynchronous operations:

- Promises: A promise represents a value that will be available in the future. It uses .then() and .catch() to handle success or failure.
- Async/Await: This is a more readable and concise syntax for working with promises. async functions return promises, and await pauses the execution until the promise resolves, making the code look synchronous.

In short, async/await simplifies working with promises, making the code easier to read and write.

## 6. What's the error-handling strategy for rejected promises while awaitina?

Ans. When handling rejected promises while using await, the primary strategy is to use a try...catch block. Here's a summary:

- 1. Wrop the await in a try block: This allows you to handle any errors that may arise during the promise's execution.
- 2. Use a catch block: This block captures any errors that occur in the try block, allowing you to handle them appropriately (e.g., logging the error, retrying the operation, or providing user feedback).

## Example:

```
async function fetchData() {
   try {
        const data = await
fetch('https://api.example.com/data');
        const jsonData = await data.json();
        return jsonData;
   } catch (error) {
       console.error('Error fetching data:', error);
        // Handle the error (e.g., return a default value
or rethrow)
   }
```

This approach ensures that your application can gracefully handle errors without crashing.

# 7. Can you explain what the .then() method does?

Ans. The .then() method is used in JavaScript with promises to handle the result of an asynchronous operation. It allows you to specify a callback function that will be executed when the promise is resolved (fulfilled) successfully. If the promise is rejected (failed), you can use .catch() to handle the error.

Here's a quick breakdown:

- Syntax: promise.then(onFulfilled, onRejected)
- onFulfilled: A function that runs when the promise is resolved, receiving the resolved value as an argument.
- onRejected (optional): A function that runs if the promise is rejected, receiving the error reason.

## Example:

```
fetch('https://api.example.com/data')
  .then(response => response.json()) // onFulfilled
                                      // next onFulfilled
  .then(data => console.log(data))
  .catch(error => console.error(error)); // onRejected
```

In this example, the first .then() processes the response, and the second .then() logs the data. If there's an error at any point, the .catch() handles it.

- 1. What is an API?
- 2. What are the HTTP ...
- 3. Can you get use GE...
- 4. What is the differe...
- 5. What is JSON?
- 6. What are CRUD op...
- 7. What is the file exte...
- 8. What are the data t...
- 9. What is the role of ...

## interview question fo...

- API, JSON, Data Lode, Dy...
  - 1. What is an API?
  - 2. What are the HTTP ...
  - 3. Can you get use GE...
  - 4. What is the differe...
  - 5. What is JSON?
  - 6. What are CRUD op...
  - 7. What is the file exte...
  - 8. What are the data t...
  - 9. What is the role of ...
  - 10. Show how to pars...
- 11. Tell us the differen...

More About the javascrip...

Key components: