

Part 1 answer

1 no que answer

In web development, there are two terms that are used: client-side and server-side. Client-side refers to code execution or processing that takes place on the user's device (client), usually in a web browser. It uses programs that the client's browser downloads and runs on their computer, such as HTML, CSS, and JavaScript.

2 no que ans

### HTTP Request and HTTP Request Types

A client (often a web browser) can communicate with a server by sending an HTTP (Hypertext Transfer Protocol) request, which asks for specified data or takes certain action. It serves as the cornerstone of online communication. The following elements are typically present in an HTTP request:

Request Method: Specifies the action to be performed on the server. The most common methods are:

- GET: Retrieves data from the server.
- POST: Sends data to the server to be processed.
- PUT: Updates existing data on the server.
- DELETE: Removes data from the server.

Request URL: The address of the server and the specific resource being requested.

Request Headers: Additional information about the request, such as the user agent, content type, or authentication credentials.

Request Body (optional): Data sent to the server, typically used with POST or PUT requests to transmit form data or JSON/XML payloads.

3 no answer

JavaScript Object Notation, or JSON, is a lightweight data transfer format that is used in web development. It is frequently employed in web development for data transmission and storage. JSON is simple to parse and generate for both machines and people to read and write.

JSON is frequently used in web development for API answers and data transmission between the client and server. It offers a uniform method of representing structured data, including objects and arrays. Most computer languages accept JSON, which is simple to convert to native data formats.

4 no answer

In online applications, the middleware acts as a bridge between the client and server components. As a bridge, it facilitates communication and carries out particular tasks along the request-response cycle. Incoming requests and outbound answers are intercepted and processed by middleware.

Middleware used for authentication is one type. Before granting access to particular sections of a web application, it can be used to confirm a user's identity. Incoming requests are intercepted by the authentication middleware, which subsequently approves or refuses access based on whether the credentials or session information are legitimate.

Answer 5

Web development's use of controllers and their function in MVC

As part of the MVC (Model-View-Controller) architectural paradigm, a controller in web development is a part or module that manages user requests and coordinates interaction between the model and the view.

The controller interacts with the model, which represents the data and business logic, to carry out the appropriate activities after receiving requests from the user interface (view) and analyzing the request parameters. The controller chooses the appropriate view and sends the processed data to it for rendering and displaying to the user after the model has completed processing the request. A major role is played by the controller.