1.What is client-side and server-side in web development, and what is the main difference between the two?

Client-side or front-end web developers use their programming talents to create visually appealing websites for users. This means they build homepages, shopping pages, and slideshows. Server-side or back-end developers create, design, and manage server-side code responsible for data exchange.

2.What is an HTTP request and what are the different types of HTTP requests?

The most common types of request methods are **GET and POST** but there are many others, including HEAD, PUT, DELETE, CONNECT, and OPTIONS. GET and POST are widely supported while support for other methods is sometimes limited but expanding.

3.What is JSON and what is it commonly used for in web development?

JSON. *JSON stands for JavaScript Object Notation*. JSON is a text format for storing and transporting data. JSON is "self-describing" and easy to understand .

4.What is a middleware in web development, and give an example of how it can be used.

Middleware is a (loosely defined) term for any software or service that enables the parts of a system to communicate and manage data. It is the software that handles communication between components and input/output, so developers can focus on the specific purpose of their application.

In server-side web application frameworks, the term is often more specifically used to refer to pre-built software components that can be added to the framework's request/response processing pipeline, to handle tasks such as database access.

5.What is a controller in web development, and what is its role in the MVC architecture?

Controllers act as an interface between Model and View components to process all the business logic and incoming requests, manipulate data using the Model component and interact with the Views to render the final output.