

Assignment Of Module 7 (Part 1)

Short Answer Questions

1. In web development, client-side refers to the execution of code on the user's browser, typically using HTML, CSS, and JavaScript. Server-side refers to the execution of code on the web server, using programming languages like Python, Ruby, or PHP. The main difference is that client-side code runs on the user's device, while server-side code runs on the server and generates the HTML, CSS, and JavaScript that are sent to the client.
2. An HTTP request is a message sent by a client (usually a web browser) to a server, requesting a certain action to be performed. There are several types of HTTP requests, including GET (retrieving data), POST (submitting data), PUT (updating data), DELETE (deleting data), and more. Each type serves a specific purpose and is used in different scenarios.
3. JSON (JavaScript Object Notation) is a lightweight data interchange format. It is commonly used in web development to transmit data between a server and a client as a text string. JSON provides a way to represent complex data structures using key-value pairs and arrays, making it easy to parse and generate data in different programming languages.
4. A middleware in web development is a piece of code that is executed between the client and server. It is used to handle common tasks, such as authentication, authorization, and logging. Middleware can be used to improve the performance of a website or web application. It can also be used to add new features to a website or web application. Here is an example of how middleware can be used: A website might use middleware to authenticate users before they can access certain pages. The middleware would check the user's credentials and then allow or deny access to the page.
5. In web development, a controller is a component that handles user interactions and manages the flow of data within the Model-View-

Controller (MVC) architecture. It receives requests from the user's browser, interacts with the model (data layer), and determines the appropriate view (presentation layer) to display back to the user. The controller acts as a mediator, coordinating the different components of the MVC pattern to enable effective separation of concerns.