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when building web applications, it is often necessary to send data from the client to the server. One common way to accomplish this is by making a POST request. In this article, we will explore how to make a x-www-form-urlencoded POST request using the Fetch API in JavaScript. What is x-www-form-urlencoded? x-www-form-urlencoded is a string encoding used to send data in HTML forms and is the default format for sending data in POST requests. In this format, the data is encoded as key-value pairs, separated by ampersands (&), and the keys and values are URL-encoded. Using the Fetch API The Fetch API provides a modern and flexible way to make HTTP requests in JavaScript. It is supported in all major browsers and allows us to easily send data to a server. To make a x-www-form-urlencoded POST request, we can use the Fetch API's fetch() function. fetch(url, { method: 'POST', headers: { 'Content-Type': 'application/x-www-form-urlencoded' }, body: 'key1=value&key2=value2' }).then(response => response.json()) then(data => { // Handle the response data }) .catch(error => { // Handle any errors }); In the above example, we pass the URL of the server as the first argument to the fetch() function. The second argument is an options object where we specify the method as 'POST' and set the 'Content-Type' header to 'application/x-www-form-urlencoded'. The body of the request is a string containing the encoded key-value pairs. URL-encoding the data in the body of the request, we need to use URL-encode the key-value pairs. This ensures that any special characters are properly encoded and can be safely transmitted over the network. In JavaScript, we can use the encodeURIComponent() method to encode the data. encodeURIComponent('key1=value&key2=value2') returns 'key1=value%26key2=value2'. In this example, we define an object data containing the key-value pairs to be sent in the request. We then use Object.keys() to get an array of the keys, and map() to iterate over the keys and values, URL-encoding them using encodeURIComponent(). Finally, we join the encoded key-value pairs with ampersands to form the body of the request. Conclusion In this article, we have learned how to make a x-www-form-urlencoded POST request using the Fetch API in JavaScript. We explored the concept of x-www-form-urlencoded, saw an example of making a POST request using the Fetch API, and learned how to URL-encode the data before sending it. By understanding and applying these concepts, you can effectively send data from the client to the server in your web applications. For further information, you may refer to the following resources: In this quick example, we will see how to send a post body in restTemplate as x-www-form-urlencoded with an example. Consider we have two parameters token and client\_id that we want to send as post data as x-www-form-urlencoded. The token and client\_id have some value as below. Sending post body using restTemplate as x-www-form-urlencoded using postman Let's see an example to send post body using restTemplate and x-www-form-urlencoded import com.fasterxml.jackson.databind.JsonNode; import org.springframework.beans.factory.annotation.Autowired; import org.springframework.http.HttpEntity; import org.springframework.http.HttpHeaders; import org.springframework.http.MediaType; import org.springframework.stereotype.Component; import org.springframework.web.client.RestTemplate; import org.springframework.web.util.UriComponentsBuilder; @Component public class RestTemplateClient { private RestTemplate restTemplate = new RestTemplate(); private HttpHeaders headers = new HttpHeaders(); private UriComponentsBuilder uriBuilder = UriComponentsBuilder.fromHttpUrl("http://localhost:8080/api/users").buildAndExpand("{token}"); public void sendPostBody() { HttpHeaders headers = new HttpHeaders(); headers.setContentType(MediaType.APPLICATION\_FORM\_URLENCODED); HttpEntity requestBodyFormUrlEncoded = new HttpEntity(map, headers); ResponseEntity responseEntity = null; try { responseEntity = restTemplate.postForEntity(uriBuilder.toUriString(), requestBodyFormUrlEncoded, JsonNode.class); } catch (Exception e) { e.printStackTrace(); } return responseEntity; } } In the above example, we are reading the rest URL using @Value annotation. We have created a RestTemplate reference using @Autowired annotation. We are using UriComponentsBuilder and LinkedMultiValueMap for storing request body x-www-form-urlencoded. We need to make sure we set x-www-form-urlencoded in headers. headers.setContentType(MediaType.APPLICATION\_FORM\_URLENCODED); We are using restTemplate.postForEntity() method restTemplate.postForEntity(uriBuilder.toUriString(), requestBodyFormUrlEncoded, JsonNode.class); That's all about how to send post body using restTemplate as x-www-form-urlencoded. Other examples. When working with APIs or web services in C#, sending POST requests is a common task. In this guide, we will explore how to use the WebClient class to make POST requests while encoding the data in the x-www-form-urlencoded format. Setting up WebClient Before we can start making POST requests, we need to create an instance of WebClient. Here's how you can do it: using System.Net; WebClient client = new WebClient(); Sending a POST Request To send a POST request with WebClient, we need to specify the URL we want to send the request to and the data we want to include in the request body. Let's see an example: string url = "http://localhost:3000/api/users"; string postData = "key1=value&key2=value2"; client.Headers.Add(HttpRequestHeader.ContentType, "application/x-www-form-urlencoded"); string response = client.UploadString(url, "POST", postData); Console.WriteLine(response); In the example above, we use the 'Content-Type' header to application/x-www-form-urlencoded and use the postData variable to store the data we want to send in the request body. The UploadString method takes the URL, the HTTP method (in this case, 'POST'), and the data to be sent as arguments. It returns a string representing the response from the server. Handling Exceptions When making POST requests, it's important to handle exceptions that may occur during the request process, such as network errors or server timeouts. Consider using HttpClient for more advanced scenarios, as WebClient is a simpler but less flexible option. By following these guidelines and examples, you can effectively make POST requests with WebClient in C# using the x-www-form-urlencoded format. Happy coding! Baeldung Pro - NPI EA (cat = Baeldung) Baeldung Pro comes with both absolutely No-Ads as well as finally with Dark Mode, for a clean learning experience: >> Explore a clean Baeldung One the early-adopter seats are all used, the price will go up and stay at \$33/year. Partner - Microsoft - NPI EA (cat = Baeldung) Azure Container Apps is a fully managed serverless container service that enables you to build and deploy modern, cloud-native Java applications and microservices at scale. It offers a simplified developer experience while providing the flexibility and portability of containers. Of course, Azure Container Apps has really solid support for our ecosystem, from a number of build options, managed Java components, native metrics, dynamic logging, and quite a bit more. To learn more about Java features on Azure Container Apps, visit the documentation page. You can also ask questions and leave feedback on the Azure Container Apps GitHub page. Partner - Microsoft - NPI EA (cat= Spring Boot) Azure Container Apps is a fully managed serverless container service that enables you to build and deploy modern, cloud-native Java applications and microservices at scale. It offers a simplified developer experience while providing the flexibility and portability of containers. Of course, Azure Container Apps has really solid support for our ecosystem, from a number of build options, managed Java components, native metrics, dynamic logging, and quite a bit more. To learn more about Java features on Azure Container Apps, visit the documentation page. And, you can also ask questions and leave feedback on the Azure Container Apps GitHub page. Partner - Microsoft - NPI EA (cat= Spring) Modern software architecture is often broken. Slow delivery leads to missed opportunities, innovation is stalled due to architectural complexity, and engineering resources are exceedingly expensive. Orkes is built to enable teams to transform the way they develop, connect, and deploy applications, microservices, AI agents, and more. With Orkes Conductor modern software architecture is often broken. Slow delivery leads to missed opportunities, innovation is stalled due to architectural complexity, and engineering resources are exceedingly expensive. Orkes is built to enable teams to transform the way they develop, connect, and deploy applications, microservices, AI agents, and more. With Orkes Conductor modern software architecture is often broken. 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