

Exploring GET and POST Methods in HTML: A Detailed Overview

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1 Introduction

This document provides a detailed overview of the GET and POST methods used in HTML forms, examining their functionalities, applications, and implications in web development.

2 GET Method

2.1 Overview

The GET method sends requests to the server to retrieve specific resources. It appends data into the URL, visible in the address bar.

2.2 Key Use Cases

- Requesting data from a server, like HTML pages or images.
- Submitting data for search queries, where confidentiality isn't a concern.

2.3 Limitations and Concerns

- Data size is limited by the URL length.
- Sensitive data is visible in the URL, posing security risks.
- Data remains in the browser history, potentially exposing information.

2.4 Example Usage

```
<form action="search.php" method="get">  
  Search: <input type="text" name="query"><br>  
  <input type="submit" value="Find">  
</form>
```

3 POST Method

3.1 Overview

POST is used to send data to the server to create or update a resource. The data is included in the body of the request, hidden from the URL.

3.2 Key Use Cases

- Submitting form data like user registrations and login credentials.
- Uploading files and handling large amounts of data.

3.3 Advantages

- Enhanced security as data isn't visible in the URL.
- No size limitations for data submission, suitable for large data sets.
- Supports binary data and character encodings beyond ASCII.

3.4 Example Usage

```
<form action="login.php" method="post">  
  Username: <input type="text" name="username"><br>  
  Password: <input type="password" name="password"><br>  
  <input type="submit" value="Login">  
</form>
```