

# HTTP Methods, Request Headers, and Response Headers

## 1. HTTP Methods

Method	Description	Example
GET	Retrieves data from the server.	GET /users HTTP/1.1
POST	Sends data to create new resource.	POST /users HTTP/1.1
PUT	Updates an existing resource fully.	PUT /users/1 HTTP/1.1
PATCH	Updates part of an existing resource.	PATCH /users/1 HTTP/1.1
DELETE	Deletes a resource from the server.	DELETE /users/1 HTTP/1.1

## 2. HTTP Request Headers

Header	Description	Example
Host	Specifies the domain name of the server.	Host: example.com
Content-Type	Indicates the type of data in the request body.	Content-Type: application/json
Authorization	Sends authentication credentials.	Authorization: Bearer <token>
Accept	Specifies the data format the client prefers.	Accept: application/json

## 3. HTTP Response Headers

Header	Description	Example
Content-Type	Indicates the format of the returned data.	Content-Type: application/json
Status Code	Indicates the status of the HTTP request.	200 OK, 404 Not Found

## 4. Common HTTP Status Codes

Status Code	Meaning	Description
200 OK	Success	The request was successful.
201 Created	Resource Created	A new resource has been created.
400 Bad Request	Client Error	The server cannot process the request.
401 Unauthorized	Authentication Issue	The request lacks valid authentication.
404 Not Found	Resource Not Found	The requested resource does not exist.
500 Internal Server Error	Server Error	A general error occurred on the server.

## 5. Example Request and Response

Request:

POST /api/users HTTP/1.1

Host: example.com

Content-Type: application/json

Authorization: Bearer abc123

## HTTP Methods, Request Headers, and Response Headers

```
{  
  "name": "Ahmed",  
  "age": 25  
}
```

Response:

HTTP/1.1 201 Created

Content-Type: application/json

```
{  
  "id": 1,  
  "name": "Ahmed",  
  "age": 25  
}
```