**🔍 1. GET**

**Purpose**: Retrieve data from the server.  
**Safe**: ✅ Yes | **Idempotent**: ✅ Yes

**Example**:

http

GET /api/users/123

**Meaning**: Fetch user data with ID 123.

**📝 2. POST**

**Purpose**: Send new data to the server (create resource).  
**Safe**: ❌ No | **Idempotent**: ❌ No

**Example**:

http

POST /api/users

Body:

{

"name": "John Doe",

"email": "john@example.com"

}

**Meaning**: Create a new user.

**🔄 3. PUT**

**Purpose**: Replace the entire resource.  
**Safe**: ❌ No | **Idempotent**: ✅ Yes

**Example**:

http

PUT /api/users/123

Body:

{

"name": "John Updated",

"email": "john.new@example.com"

}

**Meaning**: Completely replace the user with ID 123.

**✏️ 4. PATCH**

**Purpose**: Update part of the resource.  
**Safe**: ❌ No | **Idempotent**: ✅ (Generally)

**Example**:

http

PATCH /api/users/123

Body:

{

"email": "updated@example.com"

}

**Meaning**: Update only the email of user ID 123.

**❌ 5. DELETE**

**Purpose**: Delete a resource.  
**Safe**: ❌ No | **Idempotent**: ✅ Yes

**Example**:

http

DELETE /api/users/123

**Meaning**: Delete the user with ID 123.

**🧠 Summary Table**

| **Method** | **Action** | **Safe** | **Idempotent** | **Use Case** |
| --- | --- | --- | --- | --- |
| GET | Read | ✅ | ✅ | Fetch data |
| POST | Create | ❌ | ❌ | Submit new data |
| PUT | Replace/Update | ❌ | ✅ | Replace entire resource |
| PATCH | Modify/Update | ❌ | ✅ | Partially update a resource |
| DELETE | Remove | ❌ | ✅ | Delete resource |