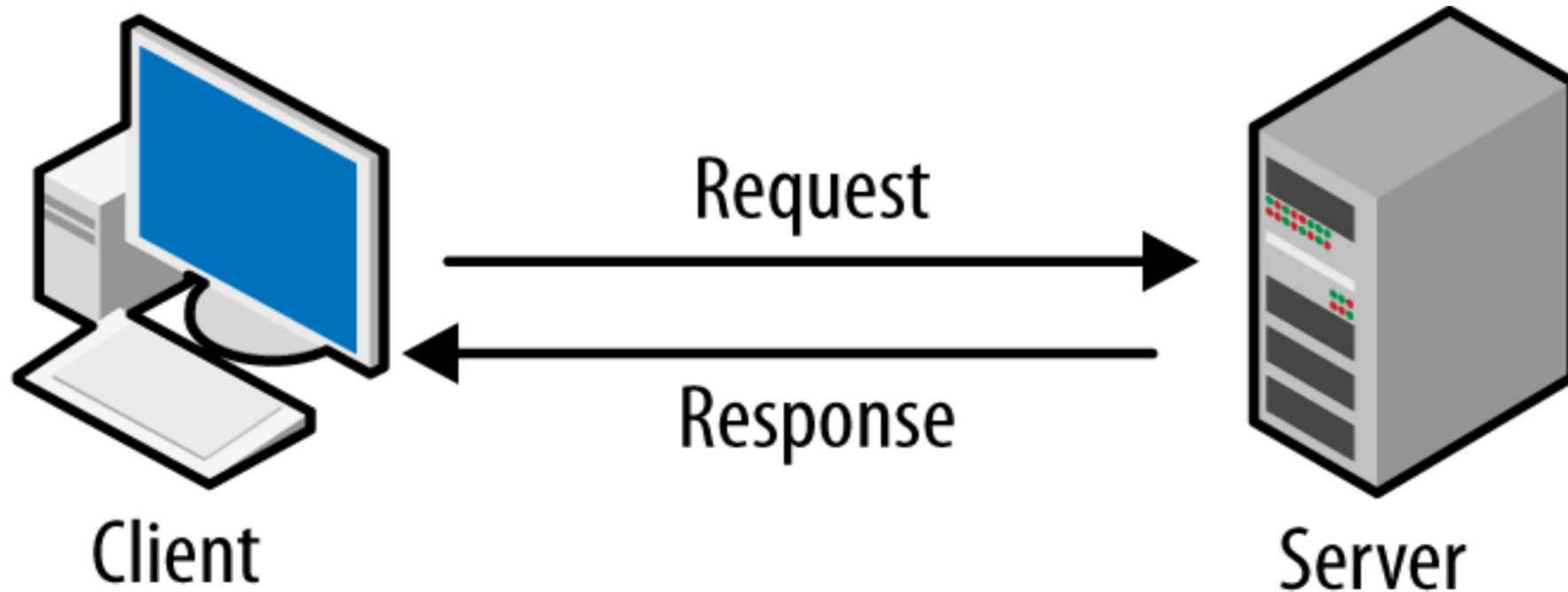


.Net Core

MOUMITA ASAD
IIT, DU.

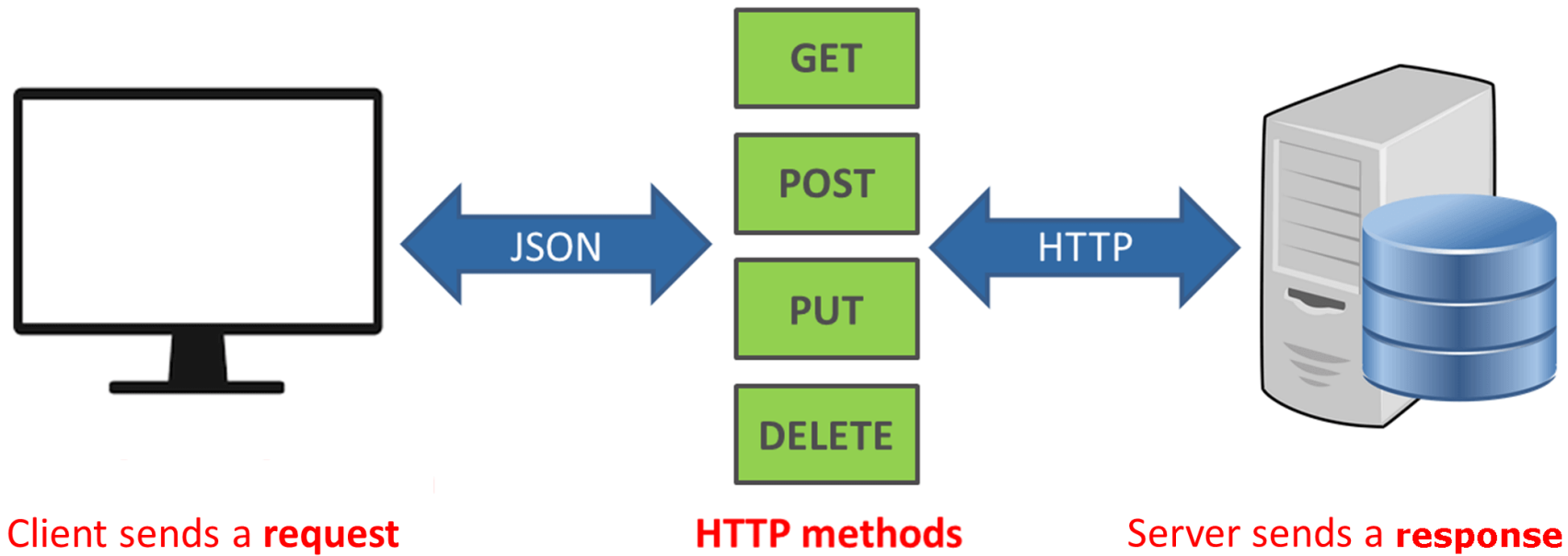
A solid blue horizontal bar at the bottom of the slide.

Client-Server



REST API

- REST (Representational State Transfer) is an API that defines a set of functions that programmers can use to send requests and receive responses using the HTTP protocol methods such as GET and POST



HTTP Protocol Methods

| | |
|--------|--|
| GET | Retrieves data from a remote server. It can be a single resource or a list of resources. |
| POST | Creates a new resource on the remote server. |
| PUT | Updates the data on the remote server. |
| DELETE | Deletes data from the remote server |

Sending Requests

- The requests should be sent to URLs on the remote server.
 - To view the list of articles a **GET** request is sent to the URL:
[/api/articles](#)
 - If we want to view an article with the id of 1, we send a **GET** request to the URL:
[/api/articles/1](#)
 - To create a new article, we send the data with the **POST** method to:
[/api/articles](#)
 - To edit the article with the id of 1 we prefer to use the **PUT** method, and send the request to:
[/api/articles/1](#)
 - To delete an article we use the **DELETE** method. We also need to specify the id:
[/api/articles/1](#)

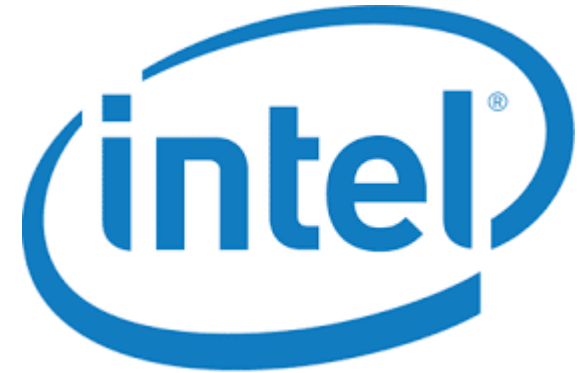
Benefits of REST API

- **Scalability.** Due to the separation between client and server, a product may be scaled by a development team without much difficulty.
- **Independence.** With the separation between client and server, the protocol makes it easy for developments across a project to take place independently.
- **Easy to integrate**
- **Easy to understand and learn due to its simplicity**

.NET Core

- a free, open-source, general-purpose development platform maintained by Microsoft.
- a cross-platform framework that runs on Windows, macOS, and Linux operating systems.

Companies using .NET Core



Resources

- <https://phpenthusiast.com/blog/what-is-rest-api>
- <https://www.freecodecamp.org/news/learn-asp-net-core-mvc-net-6/>
- <https://medium.com/net-core/how-to-build-a-restful-api-with-asp-net-core-fb7dd8d3e5e3>
- <https://docs.microsoft.com/en-us/aspnet/core/tutorials/first-web-api?view=aspnetcore-6.0&tabs=visual-studio>