

This cheat sheet is for the course [Learn C# Full Stack Development with Angular and ASP.NET](#) by Jannick Leismann.

Full-Stack Development

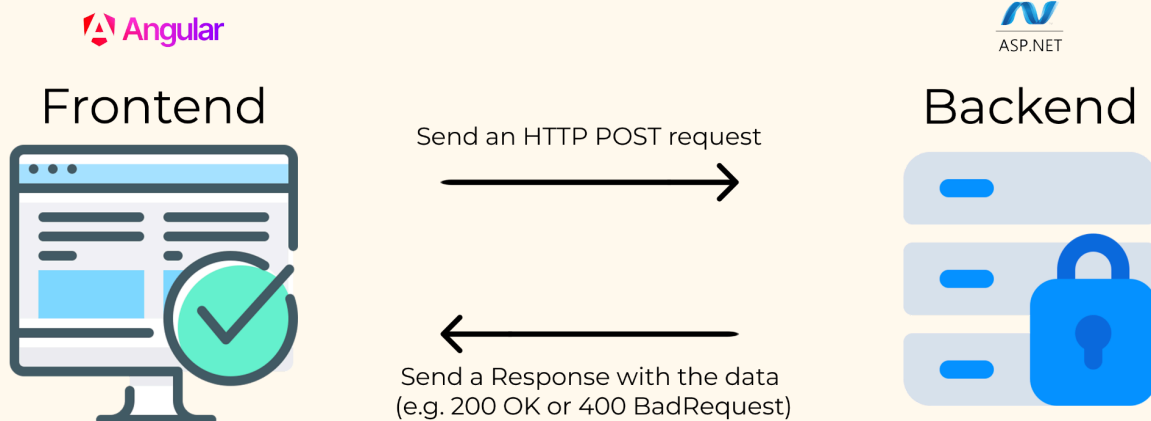
The process of working with a web application's **frontend** and **backend** is known as full stack development. A **full stack developer** is equipped to manage every step of creating a web application, from creating the user interface to controlling the server and database.

Frontend

Client User Interface/Website

Backend

Web Server and Database



HTTP Requests and Responses

Frontend (Side Client)

Request Initiation: A request is sent to the back end (server) by the frontend, which is typically a web browser. This may occur as a result of user input (such as pressing a button) or system input (such as page loading).

HTTP Techniques: Typical HTTP techniques consist of:

GET

Use the server to retrieve data.

POST

To create a new resource, send data to the server.

PUT

Modify a server resource that already exists.

DELETE

Takes an item off the server.

Backend (Server-Side)

Processing Requests

After receiving the HTTP request, the back end processes it (by running business logic or searching a database, for example) and returns a response.

Sending of Response

The front end receives an HTTP response from the server. Usually, this reaction consists of:

Status Code

Indicates the result of the request (e.g., 200 for success, 404 for not found).

Headers

Metadata about the response (e.g., content type, length).

Body

The actual data, often in formats like JSON or XML