Website = HTML CSS and JavaScript

API client communicate with server over HTTP, JSON or XML

SPA(react, Angular) perdorm most UI logic of website.

REST:

* GET: Retrieve data from the web service.
* POST: Create a new item of data on the web service.
* PUT: Update an item of data on the web service.
* PATCH: Update an item of data on the web service by describing a set of instructions about how the item should be modified. The sample application in this module doesn't use this verb.
* DELETE: Delete an item of data on the web service.

Benefits

 S**imple serialization**: ASP.NET was designed for modern web experiences. Endpoints automatically serialize your classes to properly formatted JSON out of the box. No special configuration is required. Of course, you can [customize serialization](https://learn.microsoft.com/en-us/aspnet/core/web-api/advanced/custom-formatters) for endpoints that have unique requirements.

 **Authentication and authorization**: For security, API endpoints have built-in support for industry-standard JSON Web Tokens (JWTs). Policy-based authorization gives you the flexibility to define powerful access-control rules in code.

 **Routing alongside your code**: ASP.NET lets you define routes and verbs inline with your code by using attributes. Data from the request path, query string, and request body are automatically bound to method parameters.

 **HTTPS by default**: HTTPS is an important part of modern, professional web APIs. It relies on end-to-end encryption to provide privacy, and to help ensure that your API calls aren't intercepted and altered between client and server.

dotnet dev-certs https --trust

Serve traditional page = use Razor Pages or MVC

FormBased to WebAppbased // ASP.NET use HTML + ASP markup

Java Spring PHP Laravel Python Flask, Node.js express

ASP.NET fullStack (from DB, business logic ot HTML) combine with Vue React

一張含有 文字 的圖片

自動產生的描述dotnet new webapi -f net6.0

Dotnet run

Localhost:{port}/WeatherForecast

一張含有 文字, 螢幕擷取畫面, 監視器, 黑色 的圖片

自動產生的描述

ASP.NET REPL

dotnet tool install -g Microsoft.dotnet-httprepl

httprepl [https://localhost:{PORT}](https://localhost:%7bPORT%7d)

ls / cd WeatherForecast / get/ post

Visual Studio

VS Code

Firefox

Node.js

OBS

Postman

ProtonVPN

Tor

Putty

KillDisk

7zip

Android Studio

GIMP -G’MIC – Batch IMP

Java

Intellij -clion -Rider

CMake

Kdenlive

LenStudio

SQLite DBBrowser

iTunes

blender

crystal

epic

geneshift

filezillia

VNC

Unity

Steam

XDisplays

SmartDraw

Sketchup

XAMPP

Spacedesk