.Net

**NET** is a Microsoft web services strategy to connect information, people, systems, and devices through software, making it easier for users to share and use their information between multiple websites, programs, and computers.

.**NET** is a software framework developed by Microsoft that runs primarily on Microsoft Windows. Microsoft also produces an integrated development environment largely for .**NET** software called Visual Studio. FCL provides user interface, data access, database connectivity, cryptography, web application development, numeric algorithms, and network communications.. It is a web service, providing the ability to use the Web rather than one’s own computer for various services. Microsoft's goal is to provide individual and business users with a seamlessly interoperable and Web-enabled interface for applications and computing devices and to make computing activities increasingly Web browser-oriented. The .NET platform includes servers; building-block services, such as Web-based data storage; and device software.

API

An application program interface (API) is [code](http://searchsoa.techtarget.com/definition/source-code) that allows two software programs to communicate with each other.

The API defines the correct way for a developer to write a program that requests services from an [operating system (OS)](http://searchcio-midmarket.techtarget.com/definition/operating-system) or other application. APIs are implemented by [function calls](http://whatis.techtarget.com/definition/function) composed of verbs and nouns. The required [syntax](http://whatis.techtarget.com/definition/syntax) is described in the documentation of the application being called.

In [computer programming](https://en.wikipedia.org/wiki/Computer_programming), an **application programming interface** (**API**) is a set of [subroutine](https://en.wikipedia.org/wiki/Subroutine) definitions, [protocols](https://en.wikipedia.org/wiki/Protocol), and tools for building [application software](https://en.wikipedia.org/wiki/Application_software). In general terms, it is a set of clearly defined methods of communication between various software components. A good API makes it easier to develop a [computer program](https://en.wikipedia.org/wiki/Computer_program) by providing all the building blocks, which are then put together by the [programmer](https://en.wikipedia.org/wiki/Programmer). An API may be for a web-based system, [operating system](https://en.wikipedia.org/wiki/Operating_system), [database system](https://en.wikipedia.org/wiki/Database_system), [computer hardware](https://en.wikipedia.org/wiki/Computer_hardware) or [software library](https://en.wikipedia.org/wiki/Library_%28computing%29). An API specification often includes specifications for [routines](https://en.wikipedia.org/wiki/Subroutine), [data structures](https://en.wikipedia.org/wiki/Data_structure), [object classes](https://en.wikipedia.org/wiki/Class_%28computer_programming%29), [variables](https://en.wikipedia.org/wiki/Variable_%28computer_science%29) or [remote calls](https://en.wikipedia.org/wiki/Remote_procedure_call). [POSIX](https://en.wikipedia.org/wiki/POSIX), [Microsoft](https://en.wikipedia.org/wiki/Microsoft) [Windows API](https://en.wikipedia.org/wiki/Windows_API), the [C++](https://en.wikipedia.org/wiki/C%2B%2B) [Standard Template Library](https://en.wikipedia.org/wiki/Standard_Template_Library) and [Java APIs](https://en.wikipedia.org/wiki/List_of_Java_APIs) are examples of different forms of APIs.

APIs take three basic forms: local, web-like and program-like. Local APIs are the original form, from which the name came. They offer OS or [middleware](http://searchmicroservices.techtarget.com/definition/middleware) services to application programs. Web APIs are designed to represent widely used resources like [HTML](http://searchmicroservices.techtarget.com/definition/HTML-Hypertext-Markup-Language) pages and are accessed using a simple [HTTP](http://searchwindevelopment.techtarget.com/definition/HTTP) protocol.  Any web [URL](http://searchnetworking.techtarget.com/definition/URL) activates a web API. Program APIs are based on [remote procedure call (RPC)](http://searchmicroservices.techtarget.com/definition/Remote-Procedure-Call-RPC) technology that makes a remote program component appear to be local to the rest of the software. [Service oriented architecture (SOA)](http://searchmicroservices.techtarget.com/definition/service-oriented-architecture-SOA) APIs are program APIs.

ASP

Object Oriented Design

Single Page Architecture

Cloud

Wagtail CMS

Apache

Netweaver

Authentication Method – Kerberos

PERL

BI/BoBJ

Glassfish

Weblogic

JAVA runs on JVM - Java Virtual Machine - a platform that runs on the end user machine. Takes tje compiled bytecode, .CLASS and converts it to executable file that the machine could run.