

RESTful Web Service :- REST (Representational State Transfer) is an architectural style using HTTP methods (GET, POST, PUT, DELETE) for communication.

WEB API :- It is a framework that allows us to create RESTful services using .NET.

Microservice :- It is an architectural style where an application is composed of small, independent services that communicate over HTTP or messaging.

<u>Feature</u>	<u>Web Service</u>	<u>Web API</u>
Protocol	SOAP	HTTP/REST
Format	XML	JSON, XML, etc.
Platform Support	Windows only	Cross-platform (.NET Core)
Lightweight	No	Yes

HttpRequest: Contains details of the incoming request (headers, method, URL, body).

HttpResponse: Used to send data back to the client (status codes, content, headers).

GET :- Fetch Data

POST :- Add New Resource

PUT :- Update Existing Resource

DELETE :- Remove Resource

HTTP Status Codes in Web API :-

- 200 OK - Request Successful
- 400 BadRequest - Invalid request from client
- 401 Unauthorized - No valid auth token
- 500 InternalServerError - Server-side issue