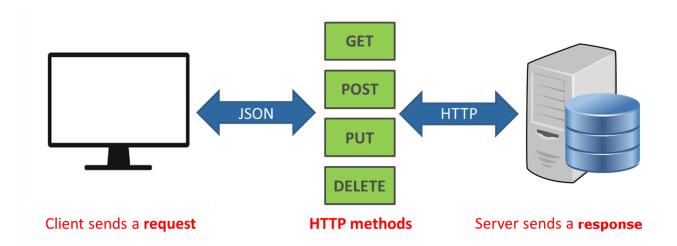
Different API's and their Differences

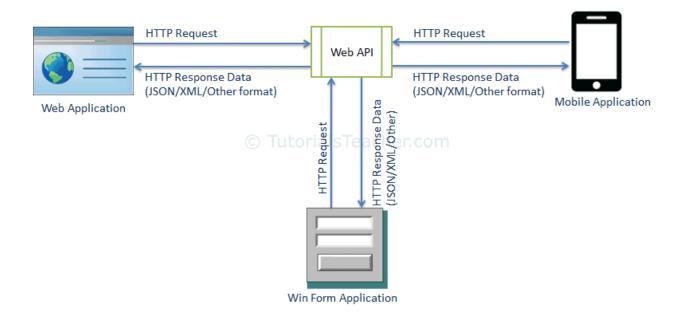
1. REST Api



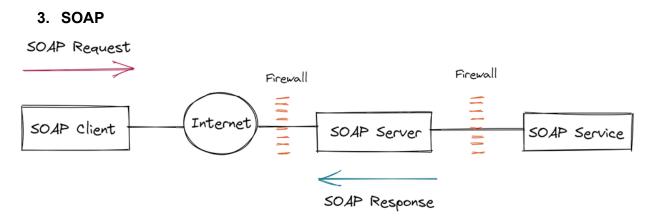
A RESTful API is a specific architectural style application programming interface (API) that follows a specific type of architectural style which help them interface with data using HTTP requests. This data is used for different purposes such as reading resource, update resource, create resource and delete resource which are the same as GET, PUT, POST or DELETE respectively. An API is a code framework which enables two software applications to communicate. It describes the protocol on which an application (Client) can use the API in order to ask for services from another software program known as a server. APIs play a critical role in facilitating the interoperability of varied stand-alone systems. RESTful APIs, or otherwise REST APIs, are modeled from the state of their resources in Representational State Transfer. This architectural style is frequently used in developing web services and also helps to communicate diverse types of applications. RESTful APIs can be created using popular programming languages like PHP, JavaScript, Python, et al. This is why REST gains an upper hand when compared to similar others (technologies); it requires less bandwidth hence saving internet usage.

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2. WEB Api



The web API implies a kind of API that can be gotten through the Internet using the hypertext transfer protocol, that is, HTTP. The web API is a framework that is applied in the creation and development of RESTful services that are known to rely heavily on Hypertext Transfer Protocol. For an interactive design agency looking to develop web applications from the scratch may use web APIs since there are so many technologies used in designing such APIs including Java or ASP.NET among others while it can be utilized by web servers or web browsers majoring on web development concepts.



SOAP, an XML-based protocol using HTTP for interacting with web services, has been designed to allow applications written in various programming languages to communicate with each other efficiently. It can manage its activities as persistent or transient. Here, persistent refers to keeping track of all information pertaining to its client over multiple requests thereby recalling past experience like among banks or when booking flights. On the other hand, in a stateless interaction the server is not required to hold on to any information about the client since it is already aware of the client's state.

References:

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