***RESTful API***

A REST API (also known as RESTful API) is an application programming interface (API or web API) that conforms to the constraints of REST architectural style and allows for interaction with RESTful web services. REST stands for representational state transfer and was created by computer scientist Roy Fielding.

An API is a set of definitions and protocols for building and integrating application software. It’s sometimes referred to as a contract between an information provider and an information user—establishing the content required from the consumer (the call) and the content required by the producer (the response).

When a client request is made via a RESTful API, it transfers a representation of the state of the resource to the requester or endpoint. This information, or representation, is delivered in one of several formats via HTTP: JSON (Javascript Object Notation), HTML, XLT, Python, PHP, or plain text. JSON is the most generally popular file format to use because, despite its name, it’s language-agnostic, as well as readable by both humans and machines.

Most business applications have to communicate with other internal and third-party applications to perform various tasks.

***Java 1.8 features***

 Lambda expressions,

 Method references,

 Functional interfaces,

 Stream API,

 Default methods,

 Base64 Encode Decode,

 Static methods in interface,

 Optional class,

 Collectors class,

 ForEach() method,

 Nashorn JavaScript Engine,

 Parallel Array Sorting,

 Type and Repating Annotations,

 IO Enhancements,

 Concurrency Enhancements,

 JDBC Enhancements etc.