**API:-**

It is an interface that define interactions between multiple applications.

APIs are customizable according to need make it efficient to use.

APIs enable modular programming, allowing users to use the interface independently of the implementation.

**Use**

Web Application

Operating System

**Step to Modelling API**

1. Identify the participants, or actors, that will interact
2. Identify Activities which need to be achieve
3. Create small step from activity
4. Create list of API method from the step
5. Validate API by using scenarios to test

**Type of API**

GET

POST  
PUT

**REST**

**REST** stands for Representational State Transfer.

REST is an architectural style, or design pattern for APIs.

Constraints for REST:-

1. Uniform interface
2. Client-server separation
3. Stateless
4. Layered system
5. Cacheable
6. Code on demand