What is REST architecture?

REST stands for Representational State Transfer. REST is web standards based architecture and uses HTTP Protocol. It revolves around resource where every component is a resource and a resource is accessed by a common interface using HTTP standard methods. REST was first introduced by Roy Fielding in 2000.

In REST architecture, a REST Server simply provides access to resources and REST client accesses and modifies the resources. Here each resource is identified by URIs/ global IDs. REST uses various representation to represent a resource like text, JSON, XML. JSON is the most popular one.

REST-based Communication APIs HTTP Packet HTTP Client HTTP Server HTTP Command REST-GET PUT Authorization Aware POST DELETE HTTP Client REST-ful Web Service **REST Payload** JSON XIVIL Resources URI URI Representations Representations Resource Resource

HTTP methods wrt resouce

Following four HTTP methods are commonly used in REST based architecture.

- GET Provides a read only access to a resource.
- POST Used to create a new resource.
- DELETE Used to remove a resource.
- PUT Used to update a existing resource or create a new resource.