REST stands for REpresentational State Transfer.

REST is an architectural style not a protocol.

java web services api: JAX-WS and JAX-RS.

Java web service application perform communication through WSDL (Web Services Description Language).

Web url vs web uri

Status code

Resource relations

A resource in REST is a similar Object in Object Oriented Programming or is like an Entity in a Database.

A **resource can be a singleton or a collection**.

REST APIs use [Uniform Resource Identifiers](https://en.wikipedia.org/wiki/Uniform_Resource_Identifier) (URIs)

Idempotence

**@XmlRootElement with ‘name’ attribute**

|  |
| --- |
| Employee.java |
| @XmlRootElement(name = "employee")  @XmlAccessorType(XmlAccessType.FIELD)  public class EmployeeData implements Serializable {      private static final long serialVersionUID = 1L;      private Integer id;    private String firstName;    private String lastName;  } |

Above converts to:

|  |
| --- |
| employee.xml |
| <employee>      <id>1</id>      <firstName>Lokesh</firstName>      <lastName>Gupta</lastName>  </employee> |