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REST using Spring Boot

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## **What is REST?**

**REST stands for representational state transfer. It is developed by Roy Thomas Fielding who also developed HTTP.**

**REST does not specify a specific messaging exchange format. We can build REST applications using both XMLs and JSON. However, JSON is the most widely used format**.

## **HTTP Methods**

**GET: It reads a resource.  
PUT: It updates an existing resource.  
POST: It creates a new resource.  
DELETE: It deletes the resource.**

**For example, if we want to perform the following actions in the social media application, we get the corresponding results.**

**POST /users: It creates a user.**

**GET /users/{id}: It retrieves the detail of a user.**

**GET /users: It retrieves the detail of all users.**

**DELETE /users: It deletes all users.**

**DELETE /users/{id}: It deletes a user.**

## **HTTP Standard Codes**

* **404: RESOURCE NOT FOUND**
* **200: SUCCESS**
* **201: CREATED**
* **401: UNAUTHORIZED**
* **500: SERVER ERROR**

## **Advantages of RESTful web services**

* **Platform independent**
* **It can be written in any programming language and executed in any platform**
* **It provides different data exchange formats like json, html, xml or text.**
* **It is fast in comparison on to SOAP because there is no strict specification like SOAP.**
* **They are usable**
* **Language neutral**