[Weekly -31st Dec 2025 Wednesday – 1st Jan 2026 Thursday]

What is REST API?

A REST API (Representational State Transfer Application Programming Interface) is an architectural style for designing networked applications that uses standard HTTP methods to access and manipulate data. It provides a flexible and scalable way for different software systems (clients and servers) to communicate with each other over the internet.

Key Concepts

a) Resources: In REST, data is treated as resources, each identified by a unique URI (usually a URL).
b) HTTP Methods: Standard HTTP methods like GET, POST, PUT, PATCH, and DELETE are used to perform operations on these resources, corresponding to actions like retrieving, creating, updating, and deleting data.
c) Representation: Resources are represented in various formats, most commonly JSON, when exchanged between client and server.
d) Statelessness: Each request is independent; the server doesn't store client information between requests, enhancing scalability.

How It Works

A client sends an HTTP request to a server, specifying a resource and an action (HTTP method). The server processes the request and returns a response containing an HTTP status code, headers, and often a data body (like JSON).

Benefits of REST APIs

REST APIs offer simplicity due to their use of standard web technologies and are highly scalable because of their stateless design. They provide flexibility in data formats and implementation languages, and promote decoupling, allowing clients and servers to develop independently.

References:

https://www.geeksforgeeks.org/node-js/rest-api-introduction/

https://www.redhat.com/en/topics/api/what-is-a-rest-api

https://www.ibm.com/think/topics/rest-apis

https://aws.amazon.com/what-is/restful-api/

https://cloud.google.com/discover/what-is-rest-api

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What is Postman?

Postman is a comprehensive API platform that streamlines the entire API lifecycle — from designing and prototyping to testing, documenting, monitoring, and governance. It eliminates the need for multiple

tools by providing a unified workspace where developers and teams can collaborate efficiently on API development.

Core Capabilities include:

a) API Client: Send HTTP requests (GET, POST, PUT, PATCH, DELETE) with built-in authentication, variable handling, and response visualization.
b) API Design & Documentation: Create API definitions, mock servers, and generate AI-assisted documentation for faster onboarding.
c) Testing & Automation: Write pre-request and test scripts, run automated tests via the Collection Runner or Postman CLI, and integrate with CI/CD pipelines.
d) Monitoring: Schedule monitors to track API uptime, performance, and security compliance.
e) Collaboration: Use shared workspaces, version control, and in-line comments to coordinate across teams.

References:
https://www.postman.com/
https://en.wikipedia.org/wiki/Postman_(software)
https://www.geeksforgeeks.org/web-tech/introduction-postman-api-development/
https://www.blazemeter.com/blog/how-use-postman-test-apis

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Developer Center for Each Product. Every SaaS product, has a backend developer end – API Programming Model.

HubSpot – Developer Home:
https://developers.hubspot.com/docs

HubSpot – Developer Home – CRM Section:
https://developers.hubspot.com/docs/guides/crm/understanding-the-crm

Asana – Developer Home – Section:
https://asana.com/developers

SalesForce – Developer Home – Section:
https://developer.salesforce.com/developer-centers

Google as:

Microsoft Dynamics 365 api

Hubspot CRM public api

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POSTMAN API – Workspace
HubSpot CRM - POSTMAN API - Workspace:
https://www.postman.com/hubspot/hubspot-public-api-workspace/

SalesForce CRM - POSTMAN API - Workspace:
https://www.postman.com/salesforce-developers/workspaces

Asana - POSTMAN API - Workspace:
https://www.postman.com/asana-team/asana-s-public-workspace/collection/j8tdhts/asana

Google as:

postman Microsoft Dynamics 365 public api workspace

postman Hubspot CRM public api workspace

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Weekly - Notes:

1) Simplified assignment – See details:
   https://github.com/ShahzadSarwar10/LOW-CODE-NO-CODE-B-
   1/blob/main/Assignments/AssignmentNo-3-Course-NoCode-LowCode-Course-
   SimpliedVersion.pdf

2) "Zapier Webhook" as trigger? Related event?
3) "Zapier Webhook" as action? Related event?
4) Read document – 'For httpzapier.com - How to -ZapierWebhook both as Trigger and as
   Action.pdf"
5) Postman - Example – demo
6) Zapier - Example – demo
7) Next – Week Assignment….Will discuss

   Let's discuss in class.
   Thanks.