week9

HTTP Methods in REST APIs

REST APIs leverage HTTP methods to define the actions that can be performed on resources. Here are the most common methods:

1. GET:

- **Purpose:** Retrieves data from a specified resource.
- **Example:** Fetching a list of users or a specific user's details.
- **URL:** `/users` or `/users/123`

2. POST:

- **Purpose:** Creates a new resource.
- **Example:** Adding a new user, creating a new post, or submitting a form.
- **URL:** `/users`

3. PUT:

- **Purpose:** Updates an existing resource entirely.
- **Example:** Modifying all fields of a user's profile.
- **URL:** `/users/123`

4. PATCH:

- **Purpose:** Updates specific fields of an existing resource.
- **Example:** Changing a user's email address or password.
- **URL:** `/users/123`

5. DELETE:

- **Purpose:** Deletes a resource.
- **Example:** Removing a user account or deleting a post.
- **URL:** `/users/123`

Additional Methods:

While less common, these methods can be used in specific scenarios:

- **OPTIONS:**

    - **Purpose:** Retrieves the available options for a resource.

    - **Example:** Determining the allowed HTTP methods for a specific URL.

- **HEAD:**

    - **Purpose:** Retrieves the metadata of a resource without the actual content.

    - **Example:** Checking the size, content type, and last modified date of a file.