**Difference between POST, PUT and PATCH-2022**

**POST - create**

**PUT - replace**

**PATCH – update**

**POST**:

* **To create** new resources, returns HTTP status 201, sometimes returns a Location header with a link to the newly-created resource

**PUT**:

* PUT is for checking if resource exists then update, else create a new resource.
* Replaces the ENTIRE RESOURCE with the new representation provided

**PATCH**:

* **PATCH** is always for updating a resource
* Submits a partial modification to a resource
* Patch request says that we would only send the data that we need to modify without modifying or effecting other parts of the data
* Replace parts of the source resource with the values provided

1. **POST**
   * If the client sends data without any identifier, then we will store the data and assign/generate a new identifier.
   * If the client again sends the **same** data without any identifier, then we will store the data and assign/generate a new identifier.
   * **Note**: Duplication is allowed here.
2. **PUT**
   * If the client sends data with an identifier, then we will check whether that identifier exists. If the identifier exists, we will update the resource with the data, else we will create a resource with the data and assign/generate a new identifier.
3. **PATCH**
   * If the client sends data with an identifier, then we will check whether that identifier exists. If the identifier exists, we will update the resource with the data, else we will throw an exception.

**Note**: On the **PUT** method, we are not throwing an exception if an identifier is not found. But in the **PATCH** method, we are throwing an exception if the identifier is not found.