**Interview Questions**

The choice to use HTTP methods like `PATCH` for delete and `PUT` for modification depends on RESTful API design principles and the semantics of these HTTP methods.

- \*\*PATCH\*\*: The HTTP `PATCH` method is typically used to apply partial modifications to a resource. It's not limited to just updates; it's meant to modify a resource partially. This method is often used for scenarios where you want to make small changes to a resource without sending the entire resource in the request body.

- \*\*PUT\*\*: The HTTP `PUT` method is used to update or replace a resource entirely with a new representation. It is typically used when you want to completely replace the resource's state with a new representation provided in the request body. In the context of RESTful APIs, it's often used for full updates.

In the case of your missions, you might use `PATCH` for deletion because when you delete a mission, you're not sending an entirely new representation of the mission; you're just changing a specific attribute (the state) to indicate it's deleted. It's a partial modification.

For modifications, you might use `PUT` because when you modify a mission, you typically send a new representation of the mission with the changes, effectively replacing the old representation with the new one.