RequestSpecification is used for reducing the redundant lines of code in the requests. It is an interface, we cannot create the object hence to get a reference we call the given() method of rest assured.

PATCH request is the correct choice to update the record partially instead of updating the entire resource.

Advantages With RestAssured:

Open Source, Java Based and supports both XML & JSON format.

With support of Given/When/Then notation, it makes your test more readable to human.

For the basics step like HTTP method, sending request and receiving & analyzing the response, no extra or separate code is to be written.

Being the Java Library, REST assured can be easily integrated with CI/CD, also with framework like JUnit.

ResponseSpecification:

ResponseSpecification is used to specify how the expected response should be for a test to pass. It is an interface, we cannot create the object hence to get a reference we call the expect() method of rest assured.

Payload:

The Payload/Body contains the information that the user wants to send to the server. The payload is used only with the requests that alter the existing resource or create new ones.

Path Parameter:

The Path parameter is the variable part of a URL. It is used to point to a particular resource within a collection, such as a user with a specific ID. In Path Parameter we move to the subresource.