

PROG 2200 ASSIGNMENT 04

PRODUCT REST API ENDPOINTS

Assignment Value: 15% of overall the course mark.

Due Date: 22th Nov (See due date designated on the assignment on D2L.)

Late submissions will receive the standard late submission penalty as stated in the course outline. (5% overall deduction per day late).

Assignment Instructions:

Use IDE to create Java classes for REST API Endpoints using Spring boot framework along with Spring JPA for the given problem. **You must create .java files in this assignment.**

- Use the REST Resource Naming Conventions to design the endpoint URLs and methods.
- Ensure that the endpoints adhere to the principles of RESTful API design, including the use of nouns for resource names, plural nouns for collection names, hyphens to separate words and lowercase letters.

Submissions:

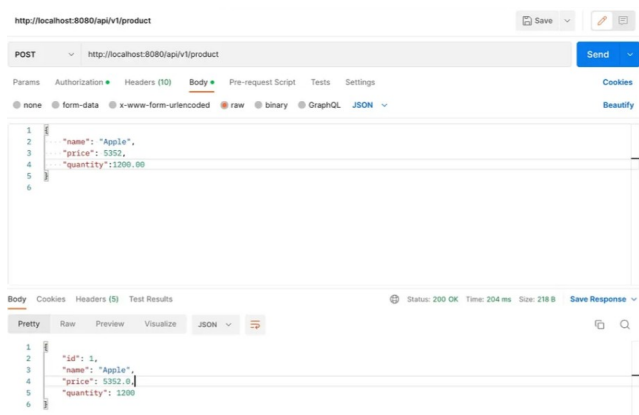
When you are finished, commit your all files (java files) to GitHub as your submission for Assignment 4. Also, share the screenshot of the outcome on the word document file name like [YourName]_PROG2200_Assignment4_Output_[ScenarioX].docx.

Evaluation:

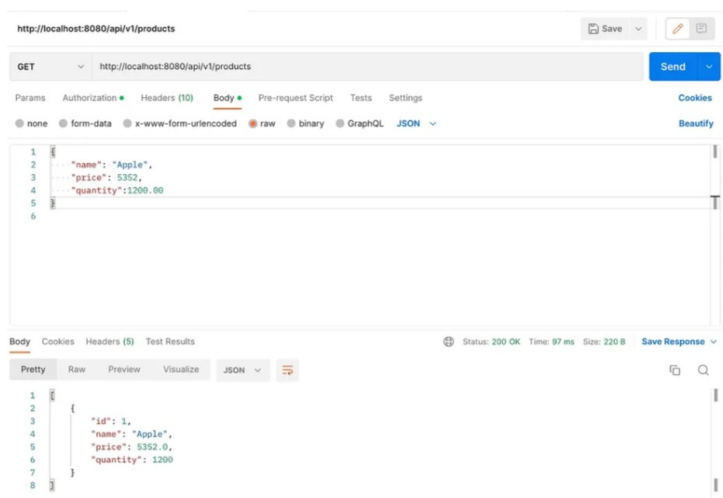
To ensure the greatest chance of success on this assignment, be sure to check the marking rubric contained at the end of this document or in D2L. The rubric contains the criteria your instructor will be assessing when marking your assignment.

Program 1 – Product REST APIs Endpoints

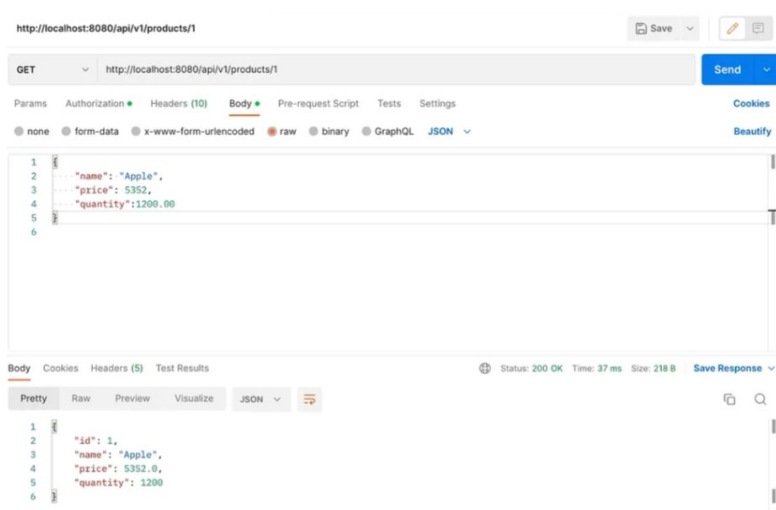
Post Request, the endpoint will be like
“http://localhost:8080/api/v1/product” and the output is:



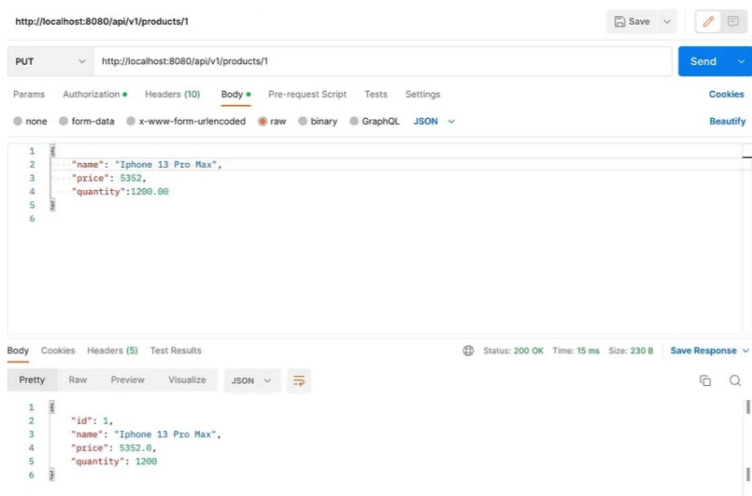
Get Request, the endpoint will be like
“http://localhost:8080/api/v1/product” and the output is:



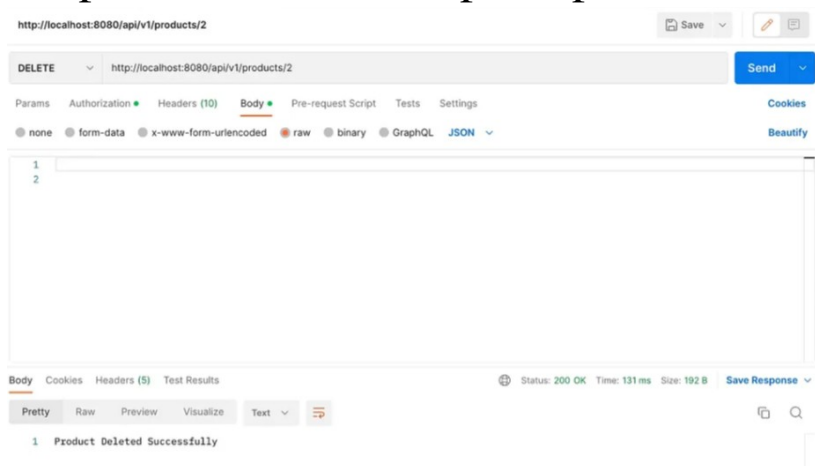
Get By Id Request, the endpoint will be like
“http://localhost:8080/api/v1/product/id” and the output is:



Update Request, the endpoint will be like
“http://localhost:8080/api/v1/product/id” and the output is:



Delete Request, the endpoint will be like
“`http://localhost:8080/api/v1/product/id`” and the output is:



Program 1 – PRODUCT REST API Endpoints

Criteria	Insufficient (0 pts)	Needs Development (1-2 pts)	Sufficient (3 pts)	Excellent (5 pts)	Mark
Able to create REST API endpoints using Spring boot along with error or exemption handling or http status codes. Also REST Resource Naming Conventions to design the endpoint URLs as per the requirement.	<ul style="list-style-type: none"> Little to no effort was made or contains too many errors/omissions . 	<ul style="list-style-type: none"> A reasonable effort was made, but there are multiple areas for improvement. 	<ul style="list-style-type: none"> A good effort was made, but at least one error or omission exists. 	<ul style="list-style-type: none"> An excellent effort was made with no errors and missing requirements. 	/5
Able to using Spring JPA along in-memory database or MySQL database	<ul style="list-style-type: none"> Little to no effort was made or contains too many errors/omissions. 	<ul style="list-style-type: none"> A reasonable effort was made, but there are multiple areas for improvement. 	<ul style="list-style-type: none"> A good effort was made, but at least one error or omission exists. 	<ul style="list-style-type: none"> An excellent effort was made with no errors and missing requirements. 	/5
Able to give Classroom Presentation/upload recording & prepare GitHub README File. Also showcase the usage of Postman to test the APIs.	<ul style="list-style-type: none"> Little to no effort was made or contains too many errors/omissions. 	<ul style="list-style-type: none"> A reasonable effort was made, but there are multiple areas for improvement. 	<ul style="list-style-type: none"> A good effort was made, but at least one error or omission exists. 	<ul style="list-style-type: none"> A excellent effort was made with no error and missing requirement. 	/5
Total:					/15

