# PROG 2200 Assignment 03

# REST API Endpoints

Assignment Value: 15% of overall the course mark.

Due Date: 08th 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 entity classes as per the database schema 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 3. Also, share the screenshot of the outcome on the word document file name like [YourName]\_PROG2200\_Assignment3\_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 – REST APIs Endpoints

**Background**

## Online Courier systems have improvised the shopping experience to an exponential level. Be it your lunch or your favorite electronic gadget, you can place an order for it online, and the product will be delivered in no time.

This kind of application is used by any product and service-based company like Amazon, Uber, and much more. Experience in designing, developing, and deploying such an application could make you stand out and make it easy for you to get into your dream company.

Online Courier Service project deals with the 'Courier Service Management System.' The system will be used for day-to-day activities.

* Product
* Buy a Product
* To return a product
* Payment Window
* company details
* hub rates
* Delivery Details
* Non-delivery Details
* Reviews

## A diagram of a delivery process Description automatically generated

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| **Program 1 – REST API Endpoint** | |  |  |  |  |
| **Criteria** | **Insufficient (0 pts)** | **Needs Development**  **(1-2 pts)** | **Sufficient (3 pts)** | **Excellent (5 pts)** | **Mark** |
| **Able to create REST API endpoints.** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * An excellent effort was made with no errors and missing requirements. | /5 |
| **Able to create database schema** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * An excellent effort was made with no errors and missing requirements. | /5 |
| **Able to give Classroom Presentation & prepare GitHub README File** | * Little to no effort was made or contains too many errors/omissions. | * A reasonable effort was made, but there are multiple areas for improvement. | * A good effort was made, but at least one error or omission exists. | * A excellent effort was made with no error and missing requirement. | /5 |
|  |  |  |  | **Total:** | **/15** |

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