

ASSIGNMENT 3

Can you Remember the Assignment 1 & 2?

Farmers' market in Montreal have decided to use a software-based product sales system to track every sales and place order for missing items properly. You are asked to make a small desktop application so that they can keep track of all of their sales & orders perfectly.

Farmers' market coordinator has shared you the following dataset:

Product Name	Product ID	Amount(kg)	Price(CAD)/kg
Apple	124567	23	2.10
Orange	345678	20	2.49
Raspberry	125678	25	2.35
Blueberry	456732	29	1.45
Cauliflower	238901	24	2.22

As a continuous developer, you have already developed the front-ends of the application, the ADO based local database connection and REST API based remote database connection. Both ADO and REST API based database connections are pointing to the same database. As a software developer, you need to develop test codes and methods to check whether the database connectivity is perfectly working or not. You actually need to deploy the following test methods for your database connection:

1. You need to develop test methods for testing the database insertion properties. The method will first try to add the data using ADO connection and will verify whether the data is inserted properly (you can retrieve the entry from the table using SELECT queries and perform assert operation). After that, you have to insert another data using REST API in the database. You can perform assert testing again for this operation in one of two ways: i. use SELECT queries followed by assert operation, ii. Extract the response message code and use assert method to test the response message code.
2. You need to develop test methods for testing database update properties. The method will first update the table using ADO connection and will verify the updated information using SELECT queries followed by assertion testing. After that, you have to update the table with another value. But instead of ADO connection, this time you are going to update the table with REST API. After update operation, you have to verify the update operation by performing assertion testing on the updated data. Like ADO based database connection, for testing the REST API based update operation you can use the SELECT query-based assertion test.
3. You need to develop test methods for DELETE operation, for both ADO based database operation and REST API based database operation. For this, like previous steps, you can use SELECT query to verify the non-existence of the deleted data in the table.

Your final work should be submitted through Github. You have to upload the code first and then share the link in the LEA. (you can directly put the GitHub link in the LEA or create a text file, add the link and upload that text file in the LEA.)