

Unit Test

1: product create

Testcase1:

Input: UPC: 12345678910 name: test1 category:0

Output: [{"msg":"success"}]

Testcase2:

Input: UPC:1234567891011 name:test1 category:0

Output: [{"msg":"existed product"}]

2: product Query

Testcase1:

Input: UPC: 12345678910

Output: [{"UPC":"12345678910","category":"Entertainment","name":"test1","picture":""}]

Testcase2:

Input: UPC: 12345678915

Output: [{"msg":"No such UPC"}]

3: product Update

Testcase1:

Input: UPC: 12345678910 name: test1 category:0

Output: [{"msg":"success"}]

Testcase2:

Input: UPC: 12345678915 name: test1 category:0

Output: [{"msg":"No such UPC"}]

4: product Delete

Testcase1:

Input: UPC: 12345678910 name: test1 category:0

Output: [{"msg":"success"}]

Testcase2:

Input: UPC: 12345678915 name: test1 category:0

Output: [{"msg":"No such UPC"}]

5: store Create

Testcase1:

Input: storename: test1 address: test2 latitude: 2.2 longitude: 2.2 city:test4

province: test5 postcode: test6

Output: [{"msg":"success"}]

Testcase2:

Input: storename: test1 address: test1 latitude: 2.2 longitude: 2.2 city:test4

province: test5 postcode: test6

Output: [{"msg":"existed store"}]

6: store Query

Testcase1:

Input: storename: test1

Output:

[{"address":"test2","city":"test4","latitude":2.2,"longitude":2.2,"postcode":"test6","province":"test5","storename":"test1"}]

Testcase2:

Input: storename: test2

Output: [{"msg":"No such storename"}]

7: store Update

Testcase1:

Input: storename: test1 address: test3 latitude: 2.2 longitude: 2.2 city: test4

province: test5 postcode: test6

Output: [{"msg": "success"}]

Testcase2:

Input: storename: test2 address: test3 latitude: 2.2 longitude: 2.2 city: test4

province: test5 postcode: test6

Output: [{"msg": "no such storename"}]

8: store Delete

Testcase1:

Input: storename: test1

Output: [{"msg": "success"}]

Testcase2:

Input: storename: test2

Output: [{"msg": "no such storename"}]

9: stock Create

Testcase1:

Input: storename: test1 UPC: 12345678910 price: 2.59

Output: [{"msg": "success"}]

Testcase2:

Input: storename: test1 UPC: 12345678911 price: 2.59

Output: [{"msg": "existed stock"}]

10: stock Query

Testcase1:

Input: storename: test1 UPC: 12345678910

Output: [{"UPC":"12345678910","price":2.59,"storename":"test1"}]

Testcase2:

Input: storename: test2 UPC: 12345678910

Output: [{"msg":"No such Stock"}]

11: stock Update

Testcase1:

Input: storename: test1 UPC: 12345678910 price: 3.5

Output: [{"msg":"success"}]

Testcase2:

Input: storename: test1 UPC: 12345678912 price: 3.5

Output: [{"msg":"no such UPC and storename"}]

12: stock Delete

Testcase1:

Input: storename: test1 UPC: 12345678910

Output: [{"msg":"success"}]

Testcase2:

Input: storename: test1 UPC: 12345678910

Output: [{"msg":" no such UPC and storename "}]

13: store Queryall

Testcase1:

Output: ["Food Basics Laurelwood", "Sobeys Bridgeport", "Sobeys Columbia", "test1", "TNT Waterloo", "walmart", "Walmart Waterloo", "Waterloo Central", "Zehrs Conestoga", "Zehrs Lincoln"]

14: Item Insert

Testcase1:

Input: flagnewstore = 0, flagchangenname = 0, UPC = 12345678910, productname = "test product(3)"
category = 0, storename = test1, price = 12.43

Output: [{"msg": "success"}]

Testcase2:

Input: flagnewstore = 0, flagchangenname = 0, UPC = 12345678910, productname = "test product(3)"
category = 0, storename = test1, price = 12.43

Output: [{"msg": "existed stock"}]

Testcase3:

Input: flagnewstore = 1, flagchangenname = 0, UPC = 12345678910, productname = "test product(3)"
category = 0, storename = test1, price = 12.43

Output: [{"msg": "existed store"}]

Testcase4:

Input: flagnewstore = 1, flagchangenname = 0, UPC = 12345678910, productname = "test product(3)"
category = 0, storename = test2, price = 12.43

Output: [{"msg": "success"}]

Testcase5:

Input: flagnewstore = 1, flagchangenname = 1, UPC = 12345678910, productname = "test product(3)"
category = 0, storename = test2, price = 12.43

Output: [{"msg": "success"}]

15: Display querybycategory

Testcase1:

Input: category = 0

Output: [{"UPC":"62847210233","discount":-0.2783882783882784,"name":"Redpath Granulated White Sugar 2kg","price":1.97,"storename":"Walmart Waterloo"}, {"UPC":"60410017715","discount":-0.22697674418604655,"name":"Lays Classic 255g","price":2.77,"storename":"Walmart Waterloo"}, {"UPC":"65651000014","discount":0.0,"name":"BurnbFrm Eggs Large 18ea","price":5.29,"storename":"Sobeys Columbia"}, {"UPC":"65651003619","discount":0.0,"name":"Burnbrea Eggs White 12pc","price":5.49,"storename":"Sobeys Columbia"}, {"UPC":"68100046069","discount":0.0,"name":"Kraft Pure Thousand Island Dressing","price":3.49,"storename":"Sobeys Columbia"}, {"UPC":"59950190101","discount":0.0,"name":"Becel Margarine Soft Tub 454g","price":3.99,"storename":"Sobeys Columbia"}]

16: Display querybystore

Testcase1:

Input: store = Sobeys Columbia

Output:

[{"UPC":"6750600","category":"Drink","minprice":-0.09132420091324199,"name":"Sprite 2L","price":1.99,"storename":"Sobeys Columbia"}, {"UPC":"6742708","category":"Drink","minprice":-0.05984251968503939,"name":"Coca-Cola 2L","price":1.99,"storename":"Sobeys Columbia"}, {"UPC":"64420010124","category":"Drink","minprice":0.0,"name":"Natrel Milk 2pct 2L","price":3.99,"storename":"Sobeys Columbia"}, {"UPC":"41540066040","category":"Office","minprice":0.0,"name":"Papermate Dryline Correction Film","price":5.99,"storename":"Sobeys Columbia"}, {"UPC":"71641301016","category":"Office","minprice":0.0,"name":"Sharpie Black Fine Permanent Marker Black","price":1.99,"storename":"Sobeys Columbia"}, {"UPC":"61328801144","category":"Home","minprice":0.0,"name":"Scotties Regular 2-Ply Facial Tissue","price":2.49,"storename":"Sobeys Columbia"}, {"UPC":"59950190101","category":"Food","minprice":0.0,"name":"Becel Margarine Soft Tub 454g","price":3.99,"storename":"Sobeys Columbia"}, {"UPC":"67311338796","category":"Drink","minprice":0.0,"name":"Oasis watermelon juice 960ml","price":1.99,"storename":"Sobeys Columbia"}, {"UPC":"61083634803","category":"Office","minprice":0.0,"name":"LePage 100pct Glue 50 ml","price":12.99,"storename":"Sobeys Columbia"}, {"UPC":"65651003619","category":"Food","minprice":0.0,"name":"Burnbrea Eggs White 12pc","price":5.49,"storename":"Sobeys Columbia"}]

17: Display bestprice

Testcase1:

Input: UPC = 60410017715

Output: [{"UPC":"60410017715","price":2.77,"storename":"Walmart Waterloo"}]

