ECE651 Server

1: API Summary

Product:

(1): createProduct,

(2): getProduct,

(3): updateProduct,

(4): deleteProduct,

(5): updateName,

(6): updateCategory,

(7): updatePicture.

Store:

(1): createStore,

(2): getStore,

(3): updateStore,

(4): updateStoreaddress,

(5): updateStorelatitude,

(6): updateStorelongitude,

(7): updateStorecity,

(8): updateStoreprovince,

(9): updateStorepostcode,

(10): queryallstore,

(11): deleteStore

Stock:

(1): createStock,

(2): getStock,

(3): updateStock,

(4): deleteStock

Item:

(1): createItem

2: Request specification

Product:

(1): getProduct,

Decription: query a product by UPC

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Product/Query/{UPC}

URL sample: http://ece651.us-east-2.elasticbeanstalk.com/Product/Query/12345678910

Require element: UPC

Return element: JSON example:
[{"UPC":"12345678910","category":"Home","name":"test3","picture":""}]

Error exception: JSON

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

Error reason: no such UPC in table Product

(2): createProduct

Description: insert a product in table product

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Product/Insert?UPC={UPC}&name={name}&category={0,1,2,3,4,5}&picture={picture}

*attention: 0: Entertainment, 1: Food, 2: Drink, 3:Home, 4:Wellness, 5:office

URL sample: http://ece651.us-east-2.elasticbeanstalk.com/Product/Insert?UPC=12345678910&name=test1&category=5&picture=test1Require element: UPC

Return element: JSON

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

Error exception: JSON

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

Error reason: the product has existed

(3)updateProduct

Description: update a product in table product by UPC

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Product/Update?UPC={UPC}&name={name}&category={0,1,2,3,4,5}&picture={picture}

*attention: 0: Entertainment, 1: Food, 2: Drink, 3:Home, 4:Wellness, 5:office

URL sample: http://ece651.us-east-2.elasticbeanstalk.com/Product/Update?UPC=12345678910&name=test2&category=4&picture=test3

Return element: JSON

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

Error exception: JSON

Example: [{"msg":"no such UPC"}]

Error reason: no such UPC in table Product

(4)deleteProduct

Description: delete a product by using UPC

HTTP method: get

URL Style: http://ece651.us-east-2.elasticbeanstalk.com/Product/Delete/{UPC}

URL example: http://ece651.us-east-2.elasticbeanstalk.com/Product/Delete/12345678911

Return element: JSON

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

Error exception: JSON

Example: [{"msg":"no such UPC"}]

Error reason: no such UPC in table Product

(5)updateName

Description: update a productname in table product by UPC

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Product/Updatename?UPC={UPC}&name={name}&category={0,1,2,3,4,5}&picture={picture}

*attention: 0: Entertainment, 1: Food, 2: Drink, 3:Home, 4:Wellness, 5:office

URL sample: http://ece651.us-east-2.elasticbeanstalk.com/Product/Update?UPC=12345678910&name=test2&category=4&picture=test3

Return element: JSON

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

Error exception: JSON

Example: [{"msg":"no such UPC"}]

Error reason: no such UPC in table Product

(6)updateCategory

Description: update a productcategory in table product by UPC

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Product/Updatecategory?UPC={UPC}&name={name}&category={0,1,2,3,4,5}&picture={picture}

*attention: 0: Entertainment, 1: Food, 2: Drink, 3:Home, 4:Wellness, 5:office

URL sample: http://ece651.us-east-2.elasticbeanstalk.com/Product/Updatecategory?UPC=12345678910&name=test3&category=0&picture=test3

Return element: JSON

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

Error exception: JSON

Example: [{"msg":"no such UPC"}]

Error reason: no such UPC in table Product

(6)updatePciture

Description: update a productpicture in table product by UPC

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Product/Updatepicture?UPC={UPC}&name={name}&category={0,1,2,3,4,5}&picture={picture}

*attention: 0: Entertainment, 1: Food, 2: Drink, 3:Home, 4:Wellness, 5:office

URL sample: http://ece651.us-east-2.elasticbeanstalk.com/Product/Updatecategory?UPC=12345678910&name=test3&category=0&picture=test3

Return element: JSON

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

Error exception: JSON

Example: [{"msg":"no such UPC"}]

Error reason: no such UPC in table Product

Stock

(1): createStock

Description: insert a stock in table stock

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Stock/Insert?storename={storename}&UPC={UPC}&price={price}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Insert?storename=Food%20Basics%20Cood&UPC=12345678920&price=11.23

Required element:storename,UPC,price

Return element: JSON

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

Error exception: JSON

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

Error reason: the stock exists in the table stock

Error exception: JSON

Example: [{"msg":"failure"}]

Error reason: URL is not correct

(2): getStock

Description: get the stock information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Query/{UPC}/{storename}

URL sample: [OBJ]

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Query/12345678914/Food Basics CMood

Required element: storename, UPC

Return element: JSON

[{"UPC":"12345678914","price":12.34,"storename":"Food Basics CMood"}]

Error exception: JSON

Example: [{"msg":"no such stock"}]

Error reason: the stock does not exist or the URL is not correct

(3): updateStock

Description: update the price of the stock

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Update?storename={storename}&UPC={UPC}&price={price}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Update?storename=Food%20Basics%20Cood&UPC=12345678920&price=11.23

Required element:storename,UPC,price

Return element: JSON

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

Error exception: JSON

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

Error reason: the UPC and storename you provide is not correct

4: deleteStock

Description: delete the stock information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Delete/{UPC}/{storename}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Delete/12345678914/Food Basics CMood

Required element: storename,UPC

Return element: JSON

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

Error exception: JSON

Example: [{"msg":"no such UPC"}]

Error reason: the UPC does not exist

Store

(1): createStore

Description: insert a store in table store

Http method: get

URL style: http://ece651.us-east-2.elasticbeanstalk.com/Store/Insert?storename={storename}&address={address}&latitude={latitude}&longitude={longitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Stock/Insert?storename=Sobeys Bridgeport&address=94 Bridgeport Rd E&latitude=43.4767642&longitude=-80.5304868&city=Waterloo&province=ON&postcode=N2J 2J9

[OBJ]

Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the store exists in the table store

Error exception: JSON

Example: [{"msg":"failure"}]

Error reason: URL is not correct

(2) getStore

Description: get the store information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Query/{storename}

URL sample: http://ece651.us-east-2.elasticbeanstalk.com/Store/Query/Food%20Basics%20Hwood

Required element: storename

Return element: JSON

[{"address":"","city":"","latitude":0.0,"longitude":0.0,"postcode":"","province":"","storename":"Food Basics Hwood"}]

Error exception: JSON

Example: [{"msg":"no such store"}]

Error reason: the store does not exist or the URL is not correct

(3)updateStore

Description: update the price of the stock

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Update?storename={storename}&address={address}&latitude={latitude}&longitude={longitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Update?storename=Sobeys Bridgeport&address=94 Bridgeport Rd E&latitude=43.4767642&longitude=-80.5304868&city=Waterloo&province=ON&postcode=N2J 2J9

⌗Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename you provide is not correct

(4)deleteStore

Description: delete the store information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Delete/{storename}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Delete/test1

Required element: storename

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename does not exist

(5): updatestoreAddress

Description: update the store address information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestoreaddress?storename={storename}&address={address}&latitude={latitude}&longitude={longtitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestoreaddress?storename=walmart&address=test1&latitude=10&longitude=10&city=waterloo&province=on&postcode=2jz1

Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename does not exist

(6): updatestorelatitude

Description: update the store latitude information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorelatitude?storename={storename}&address={address}&latitude={latitude}&longitude={longtitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorelatitude?storename=walmart&address=test1&latitude=10&longitude=10&city=waterloo&province=on&postcode=2jz1

Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename does not exist

(7):updatestorelongitude

Description: update the store longitude information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorelongitude?storename={storename}&address={address}&latitude={latitude}&longitude={longtitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorelongitude?storename=walmart&address=test1&latitude=10&longitude=10&city=waterloo&province=on&postcode=2jz1

Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename does not exist

(8) Updatestorecity

Description: update the store city information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorecity?storename={storename}&address={address}&latitude={latitude}&longitude={longtitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorecity?storename=walmart&address=test1&latitude=10&longitude=10&city=waterloo&province=on&postcode=2jz1

Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename does not exist

(9) Updatestoreprovince

Description: update the store province information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestoreprovince?storename={storename}&address={address}&latitude={latitude}&longitude={longtitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestoreprovince?storename=walmart&address=test1&latitude=10&longitude=10&city=waterloo&province=on&postcode=2jz1

Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename does not exist

(10) Updatestorepostcode

Description: update the store postcode information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorepostcode?storename={storename}&address={address}&latitude={latitude}&longitude={longtitude}&city={city}&province={province}&postcode={postcode}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Updatestorepostcode?storename=walmart&address=test1&latitude=10&longitude=10&city=waterloo&province=on&postcode=2jz1Required element: storename, address,latitude, longitude, city, province, postcode

Return element: JSON

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

Error exception: JSON

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

Error reason: the storename does not exist

(11) getallStore

Description: get all the store information

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Queryallstore

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Store/Queryallstore

Required element: Queryallstore

Return element: JSON

example: ["Food Basics CMood","Food Basics Cood","Food Basics Cwood","Food Basics Dwood","Food Basics Ewood","Food Basics Fwood","Food Basics Gwood","Food Basics Hwood","Food Basics Iwood","Food Basics Jwood","Food Basics Kwood","Food Basics Laurelwood","Food Basics Lwood","Food Basics Mwood","Sobeys Bridgeport","Sobeys Columbia","T&T Waterloo","walmart","Walmart Waterloo","Waterloo Central","Zehrs Conestoga","Zehrs Lincoln"]

Item

(1) createItem

Description: Add a item to table product, store and stock

Http method: get

URL style:

http://ece651.us-east-2.elasticbeanstalk.com/Item/Insert?item={newstoreflag}?={productnamechangeflag}?={UPC}?={productname}?={category}?={storename}?={price}

URL sample:

http://ece651.us-east-2.elasticbeanstalk.com/Item/Insert?item=1?=0?=12345678915?=Test%20product(1)?=0?=Food%20Basics%20Mwhod?=12.34

Attention:

newstoreflag is 0 or 1, if 1 it means store is a new store, so do not set it 1 when store is not a new store!

Productnamechangeflag is 0 or 1, 1 means change name, 0 means not change name

Category: 0: Entertainment, 1: Food, 2: Drink, 3:Home, 4:Wellness, 5:office

Return element: JSON

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

Error exception: JSON

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

Error reason: the stock has existed.