Seller Microservice:

#1. createSeller

Http Request:

{

username :

password :

companyName :

GSTIN :

companyDescription :

PostalAddress :

website :

emailID :

contactNo :

}

Http Response :

{

sellerId: 45,

--other Seller details--

}

#2. addProduct

Http Request:

{

productName: "CPUMonitor"

Manufacturer: "Xyz"

Model: "abc"

sellerId: 23

Price: 245.50

Quantity: 50

CategoryId: 3

SubCategoryId: 9

decription: ""

picture: ""

}

Http Response:

{

productId:

--other product details here--

}

#3. deleteItem

Http Request:

{

productId: 34

sellerId: 5

}

Http Response:

{

productId: 34,

sellerId: 5

status: "deleted"

}

#4. updateProduct

Http Request:

{

productId: 34,

sellerId:8,

Quantity: 50

--any other details of existing Product can be updated--

}

Http Response:

{

productId: 34,

sellerId: 8,

--other details of product--(optional)

status: "updated"

}

#5. viewProducts

Http Request:

{

sellerId: 23

}

HttpResponse:

[

{

productName: "CPUMonitor"

Manufacturer: "Xyz"

Model: "abc"

sellerId: 23

Price: 245.50

Quantity: 50

CategoryId: 3

SubCategoryId: 10

decription: ""

picture: ""

},

{

productName: "MnoLaptop"

Manufacturer: "Hp"

Model: "Hp 123"

sellerId: 23

Price: 64500.50

Quantity: 50

CategoryId: 3

SubCategoryId: 9

decription: ""

picture: ""

},

{

productName: "Mobile"

Manufacturer: "Oppp"

Model: "S123"

sellerId: 23

Price: 11245.50

Quantity: 50

CategoryId: 3

SubCategoryId: 9

decription: ""

picture: ""

}

]

viewBalanceandTax End point-- optional

INternal REST End points:

#6. updateProductStock -- Invoked during Buyer Checkout Use Case

Http Request:

{

productId:

productStock: -6 //always negative

}

Http response:

{

productId:

status: "updated"

}

#6 a.

getMatchingProducts

Http Request:

{

searchString: "",

Manufacturer: "",

fromPrice: ,

toPrice: ,

}

Http Response:

{

}

#7. getProductDetails -- invoked when Buyer is listing Cart Items, and during Checkout

Http Request:

{

productId:

}

Http Response:

{

--all product details--

}

#8. getCategory

Http Request:

{

categoryId:

}

Http Response:

{

categoryId:

--Category details--

}

#9. getSubCategory

Http Request:

{

subCategoryId:

}

Http Response:

{

subCategoryId:

--SUb Category details--

}

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BuyerController

CartController

#1. addCartItem

Http Request:

{

"itemId":26,

"buyerId":45

}

HttpResponse:

{

"cartId":354,

"itemId":26,

"buyerId":45

}

#2. deleteCartItem

Http Request:

{

"cartId": 321,

"buyerId": 31

}

Http Response:

{

"cartId": 321,

"buyerId": 31,

"status": "deleted"

}

#3. updateCartItem

Http Request:

{

"cartId":245,

"buyerId":21,

"numberOfItems":1

}

Http Response:

{

"cartId":245,

"buyerId":21,

"numberOfItems":1,

"status":"done"

}

#4. emptyCart

Http Request:

{

"buyerId":213

}

Http Response:

{

"buyerId":213,

"cartstatus":"deleted"

}

#5. getCartItems

Http Request:

{

"buyerId":213

}

Http Response:

[

{

"cartItemId":12,

"itemId":25,

"itemName":"Xyz Monitor",

"quantity": 4

},

{

"cartItemId":15,

"itemId":28,

"itemName":"Abc Monitor",

"quantity": 2

},

{

"cartItemId":22,

"itemId":1251,

"itemName":"Mno Keyboard",

"quantity": 1

}

]

#6. checkOut

Http Request:

{

"buyerId":213

}

Http Response:

{

"buyerId":213,

"cartstatus":"checkout\_done"

}

algorithm:

a)deduct item inventory

b)add record to Txn Repository

c)add record to Purchase History(add one record for each item)

d)empty the cart