

SmartCart server API

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Categories

GetProductCategories

Returns all available categories in the designated radius in meters.

Request type: POST

Parameters:

- string Latitude
- string Longitude
- decimal Distance

Returns:

- int CategoryId
- string Name

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetProductCategories
```

```
{"Latitude":"31.321312312", "Longitude":"43.43234234", "Distance":800}
```

Example response:

```
[
```

```
{
```

```
  "CategoryId": 3,
```

```
  "Name": "Snacks"
```

```
}, {
```

```
  "CategoryId": 4,
```

```
  "Name": "Baked goods"
```

```
}
```

```
]
```

Products

GetProducts

Returns all available products with Id larger than the input parameter within designated radius in meters.

Request type: POST

Parameters:

- int Id
- string Latitude
- string Longitude
- decimal Distance

Returns:

- int CategoryId
- string CategoryName
- int ProductId
- string Name

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetProducts
```

```
"Id":10, "Latitude":"10.23123123", "Longitude":"32.4342432"
"Distance":200}
```

Example response:

```
[
  {
    "CategoryId": 1,
    "CategoryName": "Fruit",
    "Name": "Apple",
    "ProductId": 11
  },
  {
    "CategoryId": 5,
    "CategoryName": "Candy",
    "Name": "Kinder",
    "ProductId": 12
  }
]
```

GetProductByBarcode

Returns the product id that matches the input barcode. If the product doesn't exist, returns -1.

Request type: POST

Parameters:

- string Barcode

Returns:

- int

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetProductByBarcode
```

```
{"Barcode": "43273948273"}
```

Example response:

```
55
```

InsertProduct

Inserts a product into the specified store. If the store is part of a chain with identical prices across all stores (CategoryType 'Same'), inserts the price into all stores.

Request type: POST

Parameters:

- string ProductName
- int CategoryId
- string Barcode (If unavailable, send empty string.)
- string Price
- string StoreId
- string PriceEnd (Formatted as a yyyy-mm-dd string if it is a temporary discount. Empty string if no end date is known.)

Returns:

- int (Id of inserted product if successful, -1 otherwise)

Example request:

```
"http://161.53.67.237/SmartCart/SmartCartService/InsertProduct
```

```
{"Name": "Pineapple", "CategoryId": 1, "Barcode": "31234324"}
```

Example response:

```
44
```

Stores

GetStoresWithProduct

Returns all available stores with specified product within the designated radius in meters.

Request type: POST

Parameters:

- int ProductId
- string Latitude
- string Longitude
- decimal Distance

Returns:

- int StoreId
- int StoreCategoryId
- string StoreCategoryName
- int ProductId
- string ProductName
- decimal Price
- string Latitude
- string Longitude
- string Address
- decimal Distance
- string Currency

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetStoresWithProduct
```

```
{"ProductId": 1, "Latitude":"31.321312312",  
"Longitude":"43.43234234","Distance":800}
```

Example response

```
[
```

```
{"StoreId":1, "StoreCategoryId":1, "StoreCategoryName":"SomeName",  
"ProductId":1, "ProductName":"Product1", "Price":55.34,  
"Latitude":"34.5343", "Longitude":"23.34545", "Address":"Savska 26",  
"Distance":2000, "Currency":"HRK"}
```

```
{"StoreId":2, "StoreCategoryId":1, "StoreCategoryName":"SomeName",  
"ProductId":1, "ProductName":"Product1", "Price":22,  
"Latitude":"34.5343", "Longitude":"23.34545", "Address":"Savska 25",  
"Distance":2000, "Currency":"HRK"}
```

```
{"StoreId":3, "StoreCategoryId":1, "StoreCategoryName":"SomeName",  
"ProductId":1, "ProductName":"Product1", "Price":321.43,
```

```
"Latitude": "34.5343", "Longitude": "23.34545", "Address": "Savska 24",  
"Distance": 2000, "Currency": "HRK"}
```

```
{"StoreId": 4, "StoreCategoryId": 1, "StoreCategoryName": "SomeName",  
"ProductId": 1, "ProductName": "Product1", "Price": 7,  
"Latitude": "34.5343", "Longitude": "23.34545", "Address": "Savska 23",  
"Distance": 2000, "Currency": "HRK"}
```

```
]
```

GetStores

Returns all available stores within the designated radius.

Request type: POST

Parameters:

- string Latitude
- string Longitude
- decimal Distance

Returns:

- int StoreCategoryId
- string StoreCategoryName
- int StoreId
- string Address
- string Latitude
- string Longitude
- decimal Distance

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetStores
```

```
{"ProductId": 1, "Latitude": "31.321312312",  
"Longitude": "43.43234234", "Distance": 800}
```

Example response:

```
[
```

```
{"StoreCategoryId": 3, "StoreCategoryName": "Konzum", "StoreId": 24,  
"Address": "Vukovarska 12", "Latitude": "32.321312312",  
"Longitude": "49.43234234", "Distance": 343 }
```

```
{ "StoreCategoryId":4, "StoreCategoryName":"Lidl", "StoreId":66,
  "Address":"Jurušićeva 2", "Latitude":"31.321312312",
  "Longitude":"43.43234234", "Distance":800 }
```

```
]
```

Prices

GetStorePrices

Gets prices for all products in a store.

Request type: POST

Parameters:

- int StoreId

Returns:

- int StoreId
- string StoreName
- int StoreCategoryId
- string StoreCategoryName
- int ProductId
- string ProductName
- decimal Price
- string Latitude
- string Longitude
- string Address
- decimal Distance
- string Currency

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetStorePrices
```

```
{"StoreId":1}
```

Example response:

```
[
```

```
{ "StoreId":1, "StoreName":"Store1", "StoreCategoryId":1,
  **"StoreCategoryName":"SomeName"**, "ProductId":1,
  "ProductName":"Product1", "Price":55.34, "Latitude":"34.5343",
  "Longitude":"23.34545", "Address":"Savska 26", "Distance":2000,
  "Currency":"HRK"}
```

```
{ "StoreId":1, "StoreName":"Store1", "StoreCategoryId":1,
  **"StoreCategoryName":"SomeName"**, "ProductId":2,
  "ProductName":"Product2", "Price":22, "Latitude":"34.5343",
```

```
"Longitude": "23.34545", "Address": "Savska 26", "Distance": 2000,
"Currency": "HRK"}
```

```
{"StoreId": 1, "StoreName": "Store1", "StoreCategoryId": 1,
**"StoreCategoryName": "SomeName"**, "ProductId": 3,
"ProductName": "Product3", "Price": 321.43, "Latitude": "34.5343",
"Longitude": "23.34545", "Address": "Savska 26", "Distance": 2000,
"Currency": "HRK"}
```

```
{"StoreId": 1, "StoreName": "Store1", "StoreCategoryId": 1,
**"StoreCategoryName": "SomeName"**, "ProductId": 4,
"ProductName": "Product4", "Price": 7, "Latitude": "34.5343",
"Longitude": "23.34545", "Address": "Savska 26", "Distance": 2000,
"Currency": "HRK"}
```

```
]
```

GetProductSummary

Gets prices for a certain product in all available stores within designated radius.

Request type: POST

Parameters:

- int ProductId
- string Latitude
- string Longitude
- decimal Distance
- string Method (accepts "Price" or "Distance")

Returns:

- int StoreId
- int StoreCategoryId
- string StoreCategoryName
- string Latitude
- string Longitude
- int ProductId
- string ProductName
- decimal Price
- string Address
- decimal Distance
- string Currency

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetProductSummary
```

```
Parameters:
```

```
{"ProductId":1, "Latitude":"34.423423534", "Longitude":"43.545345343",  
"Distance":2000, "Method":"Price"}
```

Example response

```
[  
  
{"StoreId":1, "StoreCategoryId":1, "StoreCategoryName":"SomeName1",  
"ProductId":1, "ProductName":"Product1", "Price":7, "Address":"Savska  
26", "Distance":2000, "Currency":"HRK"}  
  
{"StoreId":2, "StoreCategoryId":2, "StoreCategoryName":"SomeName2",  
"ProductId":1, "ProductName":"Product1", "Price":22,  
"Address":"Savska 25", "Distance":2000, "Currency":"HRK"}  
  
{"StoreId":3, "StoreCategoryId":3, "StoreCategoryName":"SomeName3",  
"ProductId":1, "ProductName":"Product1", "Price":55.34,  
"Address":"Savska 24", "Distance":2000, "Currency":"HRK"}  
  
{"StoreId":4, "StoreCategoryId":4, "StoreCategoryName":"SomeName4",  
"ProductId":1, "ProductName":"Product1", "Price":321.43,  
"Address":"Savska 23", "Distance":2000, "Currency":"HRK"}  
  
]
```

UpdateProductPrice

Updates a product price.

Request type: POST

Parameters:

- int ProductId
- int StoreId
- decimal Price
- (optional)string PriceEnd [formatted as "yyyy-mm-dd"]

Returns:

- int (0 when successful, -1 when unsuccessful)

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/UpdateProductPrice
```

```
{"ProductId":1, "StoreId":1, "Price":33}
```

Example response

0

Searching for stores

GetBestStores

Returns a list of best stores for a given shopping list of items.

Request type: POST

Parameters:

- string Method (describing how the stores should be sorted. Currently accepts "Price" and "Distance")
- decimal Distance (the maximum distance for a store in **meters**)
- string Latitude
- string Longitude
- List ShoppingList:
 - string ProductId
 - decimal Quantity
 - string ProductName

Returns:

- int StoreId
- string StoreCategoryName
- string StoreAddress
- int StoreCategoryId
- decimal TotalProducts
- decimal TotalPrice
- string Currency
- string Latitude
- string Longitude
- decimal Distance
- List Products
 - ProductId
 - Name
 - Price
 - Quantity

Example request:

```
http://161.53.67.237/SmartCart/SmartCartService/GetBestStores
```

```
*Parameters:*
```

```
{
```

```
  "ShoppingList": [
```

```
    {
```

```
"ProductId": "1",
"Quantity": "1",
"ProductName": "Milk1LK-Plus"
},
{
"ProductId": "2",
"Quantity": "1",
"ProductName": "Coca-Cola2L"
},
{
"ProductId": "15",
"Quantity": "1",
"ProductName": "PringlesTomato400g"
}
],
"Method": "Price",
"Latitude": "59.618637",
"Longitude": "16.540604",
"Distance": 5000
}
```

Example response:

```
[
{
"Currency": "SEK",
```

```
"Distance": 3792,
"Latitude": "59.6292868",
"Longitude": "16.5822093",
"Products": [
  {
    "Name": "PringlesTomato400g",
    "Price": 25.4,
    "ProductId": 15,
    "Quantity": 1
  },
  {
    "Name": "Coca Cola 500ml",
    "Price": 8.4,
    "ProductId": 12,
    "Quantity": 1
  }
],
"StoreAddress": "Gunnilibogatan",
"StoreId": 8,
"StoreCategoryName": "Hemk+Ãp",
"StoreCategoryId":2,
"TotalPrice": 33.6,
"TotalProducts": 2
},
```

```
{
  "Currency": "SEK",
  "Distance": 3205,
  "Latitude": "59.6372868",
  "Longitude": " 16.5475017",
  "Products": [
    {
      "Name": "PringlesTomato400g",
      "Price": 22.4,
      "ProductId": 15,
      "Quantity": 1
    }
  ],
  "StoreAddress": "Grytavången 2",
  "StoreId": 11,
  "StoreCategoryId":6,
  "StoreCategoryName": "Lidl",
  "TotalPrice": 22.4,
  "TotalProducts": 1
}
```