

API Specification Doc

(*DeliveryRouteWalmart*)

Version	Date	Author	Description
1.0	26/04/2014	Renato Mesa	Version 1.0

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Methods

1. input map

Input a new map in the system

Request

Method	URL
POST	DeliveryRouteWalmart/rest/map

Type	Params	Values
QUERY HEADER	mapName Content-Type	string text/plain

mapName: name of the map

The map input should be sent as a text/plain body in the request as the example below:

```
A B 10  
B C 20  
D E 30
```

A URL example of this request would be:

<http://localhost:8080/DeliveryRouteWalmart/rest/map?mapName=Map>

There should not be spaces in the name of the map points, otherwise a parser error will happen. I thought about doing a JSON input, but I followed the specification of the requirement.

Response

Status	Response
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200	{ "status": "Your map request is being processing" }
500	{"error": "Invalid map"}

2. get shortest path

Get a shortest path between two points

Request

Method	URL
GET	DeliveryRouteWalmart/rest/path/

Type	Params	Values
QUERY	origin	string
QUERY	destination	origin
QUERY	autonomy	number
QUERY	cost_liter	number

A request example is:

http://localhost:8080/DeliveryRouteWalmart/rest/path/?origin=A&destination=B&autonomy=10&cost_liter=2.5

Response

Status	Response
200	Response will be an object containing a list of nodes as well as the distance and the total cost.

	<pre>{ "origin": "N_1", "destinationsVisited": [{ "name": "N_1" }, { "name": "N_153" }, { "name": "N_404" }, { "name": "N_2" }], "distance": 36, "totalCost": 0 }</pre>
404	<pre>{"status": "Path not found"}</pre>