

RESTAURANTS API

Restaurant API Document	Version 1.0	Homework Assignment	Submitted By: Jagrati Mahalwal
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Requirements:

- Php server 7.3.8
- PostgreSQL server 9.6

Files Changes:-

1. In the conf.php change the db connection parameters.
2. In generateLog.php (log folder) change the logPath, this will create a log file for the respective APIs. This is for debugging purposes to know which API was called.

API Details

This document explains how to utilize the APIs.

URL :- `https://<hostname>/api/v1.o/`

<hostname> - Server's name

Example : `https://sandbox-takeaway/api/v1.o/`

API Name	End Point	Method
Listing	readList.php	Get,Post
Sort	sort.php	Get,Post
Search	search.php	Post

1. Listing

URL : `https://sandbox-takeaway/api/v1.o/readList.php`

Method : All

Sample Curl Request :

```
curl -X GET -k -i 'https://sandbox-takeaway/api/v1.o/readList.php'
```

Response :

```
{
  "message": "OK",
  "status": 200,
  "records": [
    {
      "id": "98001223",
      "name": "La Gondolina",
      "branch": null,
      "latitude": "52.3486912",
      "longitude": "4.8570568",
      "url": "lagondolina",
      "open": "2",
      "bestMatch": "218",
      "newestScore": "1685",
      "ratingAverage": "9",
      "popularity": "91",
      "averageProductPrice": "10.93",
      "deliveryCosts": "6.57",
      "minimumOrderAmount": "6.57"
    },
    {
      "id": "98001224",
      "name": "Adnamics",
      "branch": null,
      "latitude": "52.022375",
      "longitude": "4.2183701",
      "url": "bluesky",
      "open": "1",
      "bestMatch": "392",
      "newestScore": "2404",
      "ratingAverage": "0",
      "popularity": "9",
      "averageProductPrice": "25",
      "deliveryCosts": "1.28",
      "minimumOrderAmount": "1.28"
    }
  ]
}
```

2. Sorting

For sort there are two provisions are provided

1. Sort via criteria - Will sort the restaurants by the provided criteria in GET method.

Keywords: bestMatch, newestScore, ratingAverage, popularity, averageProductPrice, deliveryCosts, minimumOrderAmount

2. Default Sort: In case no option is provided the API will sort them basis of open status. Assuming open status as 1-open, 2- order before , 0- closed

URL : <https://sandbox-takeaway/api/v1.0/sort.php>

Method : All

Sample Curl Request :

```
curl -X GET -k -i 'https://sandbox-takeaway/api/v1.0/sort.php'
```

Response:

```
{
  "message": "OK",
  "status": 200,
  "records": [
    {
      "id": "98001246",
      "name": "Roti Mahal",
      "open": "1",
      "minimumOrderAmount": "8.48"
    },
    {
      "id": "98001255",
      "name": "Montana",
      "open": "1",
      "minimumOrderAmount": "1.98"
    },
    {
      "id": "98001235",
      "name": "Pizzalijn",
      "open": "1",
      "minimumOrderAmount": "9.81"
    },
    {
      "id": "98001224",
      "name": "Adnamics",
      "open": "1",
      "minimumOrderAmount": "1.28"
    },
    {
      "id": "98001253",
      "name": "Karnak",
      "open": "1",
      "minimumOrderAmount": "1.2"
    },
    {
      "id": "98001254",
      "name": "Sien Sien",
      "open": "1",
      "minimumOrderAmount": "5.12"
    },
    {
      "id": "98001226",
      "name": "Papa",
      "open": "1",
      "minimumOrderAmount": "9.64"
    },
    {
      "id": "98001233",
      "name": "Pizza Dispensary",
      "open": "1",
      "minimumOrderAmount": "8.61"
    },
    {
      "id": "98001264",
      "name": "Porto Griek",
      "open": "1",
      "minimumOrderAmount": "7.86"
    },
    {
      "id": "98001257",
      "name": "Rick's Lunchservice",
      "open": "1",
      "minimumOrderAmount": "6.92"
    }
  ]
}
```

Sample Request:

<https://sandbox-takeaway/api/v1.0/sort.php?sortBy=ratingAverage>

Sample CURL:

```
curl -X GET -k -i 'https://sandbox-takeaway/api/v1.0/sort.php?sortBy=ratingAverage'
```

Response:

```
{
  "message": "OK",
  "status": 200,
  "records": [
    {
      "id": "98001223",
      "name": "La Gondolina",
      "open": "2",
      "ratingAverage": "9",
      "minimumOrderAmount": "6.57"
    },
    {
      "id": "98001227",
      "name": "Brasserie Meerzicht",
      "open": "2",
      "ratingAverage": "9",
      "minimumOrderAmount": "8.14"
    },
    {
      "id": "98001234",
      "name": "Valentino",
      "open": "2",
      "ratingAverage": "9",
      "minimumOrderAmount": "7.13"
    },
    {
      "id": "98001232",
      "name": "Sushi Kings",
      "open": "0",
      "ratingAverage": "9",
      "minimumOrderAmount": "1.98"
    }
  ]
}
```

3. Search

URL: <http://localhost/api/v1.0/search.php>

Method: POST

Body: {"name": "Roti Mahal"}

Sample Curl Request:

```
curl -X POST -i 'http://localhost/api/v1.0/search.php' --data '{"name": "Roti Mahal"}'
```

Response:

```
{
  "message": "OK",
  "status": 200,
  "records": [
    {
      "id": "98001246",
      "name": "Roti Mahal",
      "branch": "Den"
    }
  ]
}
```

Haag","latitude":"52.089412","longitude":"4.310478","url":"rotimahal","open":"1","best Match":"232","newestScore":"1463","ratingAverage":"0","popularity":"14","averageProductPrice":"25","deliveryCosts":"8.48","minimumOrderAmount":"8.48"}]}

Status Codes:-

Code	Message	Description
200	OK	The API is working fine
204	No Content	In search API if name is not send in the post body.
404	Restaurant data not found	In case the restaurant data not found in DB
405	Method not allowed	For search API, only POST method is allowed

Test Cases

API	Method	Response	Description
https://sandbox-takeaway/api/v1.o/readList.php	Get	{"message":"An error occurred while making connection to the DB.","status":500}	PHP-postgres connection error
Listing			
https://sandbox-takeaway/api/v1.o/readList.php	Get,Post	{"status":200,"message":"OK","records":[]}	API is OK
https://sandbox-takeaway/api/v1.o/readList.php	Get,Post	{"message": "Error occurred while querying the DB","status": 500 }	If the relation name or schema name is wrong or not created in DB. For more info check logs.

https://sandbox-takeaway/api/v1.o/readList.php	Get,Post	{"message": "No restaurant found.", "status": 404}	There were no records in DB
Sort			
https://sandbox-takeaway/api/v1.o/sort.php	Get,Post	{"status": 200, "message": "OK", "records": []}	API is working OK
https://sandbox-takeaway/api/v1.o/sort.php?sortBy=bestMatch	Get,Post	{"status": 200, "message": "OK", "records": []}	API is working OK
https://sandbox-takeaway/api/v1.o/sort.php?sortBy=bestMatch	Get,Post	{"message": "Error occurred while querying the DB", "status": 500 }	If the relation name or schema name is wrong or not created in DB. For more info check logs.
https://sandbox-takeaway/api/v1.o/sort.php?sortBy=bestMatch	Get,Post	{"message": "No restaurant found.", "status": 404}	There were no records in DB
Search			
curl -X GET -k -i 'https://sandbox-takeaway/api/v1.o/search.php'	Get	{"message": "Method Not Allowed", "status": 405}	Only POST method is allowed
curl -X POST -k -i 'https://sandbox-takeaway/api/v1.o/search.php'	POST	{"message": "Please provide name to perform search", "status": 404}	Request without any body param to perform the search
curl -X POST -k -i 'https://sandbox-takeaway/api/v1.o/search.php' --data '{"rest_name": "anyname"}	POST	{"message": "Please provide name to perform search", "status": 404}	The keyword is work, it requires name keyword to perform the search.
curl -X POST -k -i 'https://sandbox-takeaway/api/v1.o/search.php' --data '{"name": "papa"}	POST	{"message": "OK", "status": 200, "records": [{"id": "98001226", "name": "Papa", "branch": "Wattstraat", "latitude": "52.0596183", "longitude": "4.525	API Response id OK

		853","url":"pizzeriagrill roompapaoud","open": 1","bestMatch":"138","n ewestScore":"517","rati ngAverage":"0","popula rity":"68","averageProd uctPrice":"25","delivery Costs":"9.64","minimu mOrderAmount":"9.64" }}}	
curl -X POST -k -i 'https://sandbox-takea way/api/v1.0/search.ph p' --data '{"name":"anyname"}'	POST	{"message":"No restaurant found.", "status":404}	No record found with this name