**Restaurant API description**

**Models**

**Restaurant**

id: long – primary key of restaurant

name: String – string that contains name of the restaurant

description: String – string that contains description of the restaurant

monOpeningHour: String[] – array of \*openingTime string that contains opening time of the restaurant on Monday.

tueOpeningHour: String[] – array of \*openingTime string that contains opening time of the restaurant on Tuesday.

wedOpeningHour: String[] – array of \*openingTime string that contains opening time of the restaurant on Wednesday.

thuOpeningHour: String[] – array of \*openingTime string that contains opening time of the restaurant on Thursday.

friOpeningHour: String[] – array of \*openingTime string that contains opening time of the restaurant on Friday.

satOpeningHour: String[] – array of \*openingTime string that contains opening time of the restaurant on Saturday.

sunOpeningHour: String[] – array of \*openingTime string that contains opening time of the restaurant on Sunday.

latitude: Double – latitude of the restaurant

longitude: Double – longitude of the restaurant

\*openingTime string – string has 8 characters which

1st-2nd characters represent hour of opening time

3rd-4th characters represent minute of opening time

5th-6th characters represent hour of opening time

7th-8th characters represent minute of opening time

For example, restaurant open at 8.00-16.00 can be represented by 08001600

**CommandInput**

latitude: Double – latitude of input

longitude: Double – longitude of input

radius: Double – radius from latitude and longitude point represent in kilometer unit

daytime: String – string that represent day of the weed and time of input. The string contains 5 characters which

1st character represents day of the week

Monday = 0

Tuesday = 1

Wednesday = 2

Thursday = 3

Friday = 4

Saturday = 5

Sunday = 6

2nd-3rd characters represent hour

4th-5th characters represent hour

For example, Saturday 15.30 can be represented by 51530

name: String – name of the input restaurant

description: String – description of the input restaurant

**Services**

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| Get list of restaurants |
| Returns list of restaurant as JSON  URL: /restaurant  Method: GET  URL Params: None  Data Params: None  Success Response:  Code: 200  Content:  [{  "id": 1,  "name": "Mock1",  "description": "First mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }]  Error Response: None |

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| Get information of a restaurant |
| Returns a restaurant object as JSON  URL: /restaurant/:id  Method: GET  URL Params: id:long  Data Params: none  Success Response:  Code: 200  Content:  {  "id": 1,  "name": "Mock1",  "description": "First mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }  Error Response:  Code: 404  Content: none |

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| Add new restaurant |
| Add new JSON restaurant object to the repository  URL: /restaurant  Method: POST  URL Params: none  Data Params:  {  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }  Success Response:  Code: 204  Content: none  Error Response: none |

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| Update restaurant |
| Update an existing restaurant by submitting JSON restaurant object  URL: /restaurant  Method: PUT  URL Params: none  Data Params:  {  "id": 5,  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }  Success Response:  Code: 204  Content: none  Error Response:  Code: 404  Content: none |

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| Delete all restaurants |
| Delete all existing restaurant from repository  URL: /restaurant  Method: DELETE  URL Params: none  Data Params: none  Success Response:  Code: 204  Content: none  Error Response: none |

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| Delete a restaurant |
| Delete a restaurant by id  URL: /restaurant/:id  Method: DELETE  URL Params: id:long  Data Params: none  Success Response:  Code: 204  Content: none  Error Response:  Code: 404  Content: none |

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| Search restaurant |
| Search for restaurant using JSON as input, the service will choose appropriate approach to deal with JSON input  URL: /restaurant/search  Method: POST  Path Params: none  Data Params:  {  "name":"Mock5",  "description" : ""  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock5",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }]  Error Response: none |

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| Search by name and description |
| Search for restaurant using name and description  URL: /restaurant/searchByNameAndDescription  Method: POST  Path Params: none  Data Params:  {  "name":"Mock5",  "description" : ""  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock5",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }]  Error Response: none |

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| Search by location |
| Search for restaurant using latitude, longitude and radius  URL: /restaurant/searchByLocation  Method: POST  Path Params: none  Data Params:  {  "latitude":18.791308,  "longitude":98.950719,  "radius":0.5  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.791308,  "longitude": 98.950719  }]  Error Response: none |

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| Search by opening time |
| Search for restaurant using string that contain day of the week and time  URL: /restaurant/searchOpening  Method: POST  Path Params: none  Data Params:  {  "dayTime":"11200"  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }]  Error Response: none |

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| Search by opening time and location |
| Search for restaurant using string that contain day of the week and time, latitude, longitude and radius  URL: /restaurant/searchOpeningNearby  Method: POST  Path Params: none  Data Params:  {  "latitude":18.791608,  "longitude":98.950719,  "radius":0.5,  "dayTime":"11200"  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }]  Error Response: none |

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| Search by location, name and description |
| Search for restaurant using latitude, longitude, radius, name and  Description  URL: /restaurant/searchNearbyByNameAndDescription  Method: POST  Path Params: none  Data Params:  {  "latitude":18.791308,  "longitude":98.950719,  "radius":0.5,  "name":"Mock3",  "description" : ""  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }]  Error Response: none |

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| Search by time, name and description |
| Search for restaurant using string that contain day of the week and time, name and description  URL: /restaurant/searchOpeningByNameAndDescription  Method: POST  Path Params: none  Data Params:  {  "dayTime":"01200",  "name":"Mock6",  "description" : ""  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.7916,  "longitude": 98.950612  }]  Error Response: none |

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| Search by time, location, name and description |
| Search for restaurant using latitude, longitude, radius, string that contains day of the week and time, name and description  URL: /restaurant/searchNearbyOpeningByNameAndDescription  Method: POST  Path Params: none  Data Params:  {  "latitude":18.791308,  "longitude":98.950719,  "radius":0.5,  "dayTime":"11200",  "name":"Mock6",  "description" : ""  }  Success Response:  Code: 200  Content:  [{  "id": 5,  "name": "Mock6",  "description": "Fifth mock restaurant",  "monOpeningHour": [  "08002000",  "21002200"  ],  "tueOpeningHour": [  "08002000"  ],  "wedOpeningHour": [  "08002000"  ],  "thuOpeningHour": [  "08002000"  ],  "friOpeningHour": [  "08002000"  ],  "satOpeningHour": [  "08002000"  ],  "sunOpeningHour": [  "08002000"  ],  "latitude": 18.791308,  "longitude": 98.950719  }]  Error Response: none |