**API Document**

Endpoint: http(s)://domain.com/rs

Example endpoint: http://localhost/rs

Expected Date Format: ddMMyyyy (Ex: 31012000)

Path parameter order: if there are two or more path parameters the order of them is important. (Ex: http://{endpoint}/{prefix}/serviceURL/pathParam1/pathParam2)

Airline

|  |  |  |  |
| --- | --- | --- | --- |
| Path | Operation | Input | Output |
| /airlines | GET |  | [  {  "id": 51,  "name": "Mogolian Airline"  },  {  "id": 17,  "name": "North Star"  },  {  "id": 10,  "name": "oneworld"  }  ] |
| /airlines/create | POST | {  “name”:”US Airline”  } | {  “id”:10,  “name”:”US Airline”  } |
| /airlines/delete/{name} | DELETE |  | NO\_CONTENT |
| /airlines/delete | DELETE | {  “id”:”51”  } | NO\_CONTENT |
| /airlines/update | PUT | {  “id”:10,  “name”:”America Airline”  } | {  “id”:10,  “name”:”America Airline”  } |
| /airlines/find | POST | {  “id”: 10  } | {  “id”:10,  “name”:”America Airline”  } |
| /airlines/findByName/{name} | GET |  | {  “id”:10,  “name”:”America Airline”  } |
| /airlines/findByFlight | POST | {  "airline": {  "id": 17,  "name": "North Star"  },  "airplane": {  "capacity": 519,  "id": 18,  "model": "A380",  "serialnr": "34512"  },  "arrivalDate": "6/25/15",  "arrivalTime": "5:45 AM",  "departureDate": "8/6/09",  "departureTime": "2:30 PM",  "destination": {  "airportcode": "FRA",  "city": "Frankfurt",  "country": "Germany",  "id": 19,  "name": "Frankfurt International Airport"  },  "flightnr": "UA 944",  "id": 16,  "origin": {  "airportcode": "ORD",  "city": "Chicago",  "country": "USA",  "id": 20,  "name": "Chicago O'hare International"  }  } | [  {  "id": 17,  "name": "North Star"  }  ] |

Airplanes

|  |  |  |  |
| --- | --- | --- | --- |
| Path | Operation | Input | Output |
| /airplanes | GET |  | [  {  "capacity": 519,  "id": 3,  "model": "A380",  "serialnr": "12345"  },  {  "capacity": 416,  "id": 7,  "model": "747",  "serialnr": "54321"  }  ] |
| /airplanes/create | POST | {  "model": "A898",  "serialnr": "6666",  "capacity": 501  } |  |
| /airplanes/delete/{serialNumber} | DELETE |  | NO\_CONTENT |
| /airplanes/delete | DELETE | {  “id”:101,  "model": "A898",  "serialnr": "6666",  "capacity": 501  } | NO\_CONTENT |
| /airplanes/update | PUT | {  “id”:101,  "model": "A898",  "serialnr": "6666",  "capacity": 401  } | {  “id”:101,  "model": "A898",  "serialnr": "6666",  "capacity": 401  } |
| /airplanes/find | GET | {  “id”:101  } | {  “id”:101,  "model": "A898",  "serialnr": "6666",  "capacity": 401  } |
| /airplanes/findBySerialNumber/{serialNumber} | GET |  | {  “id”:101,  "model": "A898",  "serialnr": "6666",  "capacity": 401  } |
| /airplanes/findByFlight | POST | {  "airline": {  "id": 17,  "name": "North Star"  },  "airplane": {  "capacity": 519,  "id": 18,  "model": "A380",  "serialnr": "34512"  },  "arrivalDate": "6/25/15",  "arrivalTime": "5:45 AM",  "departureDate": "8/6/09",  "departureTime": "2:30 PM",  "destination": {  "airportcode": "FRA",  "city": "Frankfurt",  "country": "Germany",  "id": 19,  "name": "Frankfurt International Airport"  },  "flightnr": "UA 944",  "id": 16,  "origin": {  "airportcode": "ORD",  "city": "Chicago",  "country": "USA",  "id": 20,  "name": "Chicago O'hare International"  }  } | [  {  "capacity": 519,  "id": 18,  "model": "A380",  "serialnr": "34512"  }  ] |
| /airplanes/findByModel/{model} | GET |  | [  {  "capacity": 519,  "id": 3,  "model": "A380",  "serialnr": "12345"  },  {  "capacity": 519,  "id": 11,  "model": "A380",  "serialnr": "23451"  },  {  "capacity": 519,  "id": 18,  "model": "A380",  "serialnr": "34512"  }  ] |

**Flight services**

Prefix path: /flight

Example: http://localhost/rs/flight/serviceURL

***Service name***: Update flight info

URL: /update

Method: POST

Request body: Flight Object

***Service name***: Find flight by id

URL: /find

Method: GET

Path parameter(s): id

Response: Flight object

***Service name***: Find flights by number

URL: /findByNumber

Method: GET

Path parameter(s): flightNumber

Response: Flight objects list

***Service name***: Find flights by airline’s id

URL: /findByAirline

Method: GET

Path parameter(s): airlineId

Response: Flight objects list

***Service name***: Find flights by origin airport id

URL: /findByOrigin

Method: GET

Path parameter(s): airportId

Response: Flight objects list

***Service name***: Find flights by airplane id

URL: /findByAirplane

Method: GET

Path parameter(s): airplaneId

Response: Flight objects list

***Service name***: Find flights by arrival date

URL: /findByArrival

Method: GET

Path parameter(s): date (Format: ddMMyyyy / Ex: 31012000)

Response: Flight objects list

***Service name***: Find flights by arrival date in a range

URL: /findByArrivalBetween

Method: GET

Path parameter(s): fdate, tdate (Format: ddMMyyyy / Ex: 31012000)

Response: Flight objects list

***Service name***: Find flights by departure date

URL: /findByDeparture

Method: GET

Path parameter(s): date (Format: ddMMyyyy / Ex: 31012000)

Response: Flight objects list

***Service name***: Find flights by departure date in a range

URL: /findByDepartureBetween

Method: GET

Path parameter(s): fdate, tdate (Format: ddMMyyyy / Ex: 31012000)

Response: Flight objects list

***Service name***: Find all flights

URL: /findAll

Method: GET

Response: Flight objects list

**Airport services**

**prefix path:/airport**

**All the URL follow the of : htt://localhost/rs/airport/..............**

1.**service name:** Create Airport

     >URL:-/create

      >Method:-POST

**2.Service Name:-** Delete Airport

      >URL:-/delete

      >Method:-GET

       >Path  Parameter:- airportid

**3.Service Name:-** Update Airport

    >URL:-/update

       >Method:-PUT

      >Request body:- Airport Object

**4.Service Name:-** Find Airport

        >URL:-/find

       >Method:-GET

       >Path  Parameter:- airportid

         >Response :-Airport Object

**5.Service Name:-** Find Airport by Code

          >URL:-/bycode

          >Method:-GET

         >Path  Parameter:- name

           >Response :-Airport Object

**6.Service Name:-** Find Airport by Arrival

          >URL:-/byarrival

          >Method:-GET

        >Path  Parameter:- flightid

          >Response :-List of Airport Object

**7.Service Name:-** Find Airport by Departure

         >URL:-/bydeparture

         >Method:-GET

        >Path  Parameter:- flightid

         >Response :-List of Airport Object

**8.Service Name:-** Find Airport by City

         >URL:-/bycity

          >Method:-GET

           >Path  Parameter:- name

          > Response :-List of Airport Object

**9.Service Name:-** Find Airport by Country

             >URL:-/bycountry

            >Method:-GET

           >Path  Parameter:- name

           >Response :-List of Airport Object

**10.Service Name:-** Find Airport by Name

          >URL:-/byname

          >Method:-GET

           >Path  Parameter:- name

        >Response :-List of Airport Object

**11.Service Name:-** Find all Airports

         >URL:-/all

         >Method:-GET

         >Response :-List of Airport Object