Airport

GET

|  |  |
| --- | --- |
| Function | Get all airports |
| URL Params | None |
| Body | None |
| Route | https://localhost:8080/airports |
| Returns | A list of all airports (List<Airports>) |

|  |  |
| --- | --- |
| Function | Get airport by id |
| URL Params | {id of airport} |
| Body | None |
| Route | https://localhost:8080/airport/{id of airport} |
| Returns | A single Airport or null |

POST

|  |  |
| --- | --- |
| Function | Create an Airport |
| URL Params | None |
| Body | Airport Object (Example):  {  "airport\_ID": 1,  "code": "YYZ",  "name": "Toronto Pearson International Airport",  "city": "Toronto",  "province": "Ontario"  } |
| Route | https://localhost:8080/airport |
| Returns | The Inserted Airport |

PUT

|  |  |
| --- | --- |
| Function | Update an Airport |
| URL Params | ID of the Airport to be Updated |
| Body | Airport Object (Example):  {  "airport\_ID": 1,  "code": "YYZ",  "name": "Toronto Pearson Supernational Airport",  "city": "Super Toronto",  "province": "Ontario"  } |
| Route | [https://localhost:8080/airport/{id](https://localhost:8080/airport/%7bid) of airport} |
| Returns | The Updated Airport or null |

DELETE

|  |  |
| --- | --- |
| Function | Delete by id |
| URL Params | {id of airport} |
| Body | None |
| Route | https://localhost:8080/airport/{id of airport} |
| Returns | A single deleted Airport or null |

Aircraft

GET

|  |  |
| --- | --- |
| Function | Get all aircraft |
| URL Params | None |
| Body | None |
| Route | https://localhost:8080/aircrafts |
| Returns | A list of all airports (List<Aircraft>) |

|  |  |
| --- | --- |
| Function | Get a single aircraft |
| URL Params | None |
| Body | None |
| Route | https://localhost:8080/aircraft/{id} |
| Returns | Single Aircraft Object |

POST

|  |  |
| --- | --- |
| Function | Create a new aircraft |
| URL Params | None |
| Body | {  "aircraft\_ID": 2, (not important, new one will get assigned)  "model": "Airbus A320",  "airline": "WestJet",  "capacity": 180,  "rows": 30, (very important)  "columns": 6, (also very important)  "numAisles": 1  } |
| Route | https://localhost:8080/aircraft |
| Returns | The New Aircraft (Single Aircraft Object) |

PUT

|  |  |
| --- | --- |
| Function | Update an aircraft based on flight id aircraft |
| URL Params | {ID of aircraft to be updated} |
| Body | {  "aircraft\_ID": 2,  "model": "The Super cool Airbus A320XZ",  "airline": "WestJet",  "capacity": 360,  "rows": 60, (very important)  "columns": 12, (also very important)  "numAisles": 2  }, |
| Route | https://localhost:8080/aircraft/{id} |
| Returns | The Updated Aircraft (Single Aircraft Object) |

DELETE

|  |  |
| --- | --- |
| Function | Delete an aircraft |
| URL Params | {id of aircraft to be deleted} |
| Body | None |
| Route | https://localhost:8080/aircraft/{id} |
| Returns | The Removed Aircraft (Single Aircraft Object) |

Flight

GET

|  |  |
| --- | --- |
| Function | Get all flights |
| URL Params | None |
| Body | None |
| Route | https://localhost:8080/flights |
| Returns | A list of all flights(List<Flight>) |

|  |  |
| --- | --- |
| Function | Get flight by flight id |
| URL Params | {id} |
| Body | None |
| Route | https://localhost:8080/flight/{id } |
| Returns | A single flight or null |

|  |  |
| --- | --- |
| Function | Get flights by destination/arriving airport id |
| URL Params | {id of airport} |
| Body | None |
| Route | https://localhost:8080/flight/arriving/{id } |
| Returns | List of Flights(List<Flight>) |

|  |  |
| --- | --- |
| Function | Get flights by origin/departing airport id |
| URL Params | {id of airport} |
| Body | None |
| Route | https://localhost:8080/flight/departing/{id } |
| Returns | List of Flights(List<Flight>) |

|  |  |
| --- | --- |
| Function | Get flights by airport id |
| URL Params | {id of airport} |
| Body | None |
| Route | https://localhost:8080/flight/airport/{id } |
| Returns | List of Flights(List<Flight>) |

POST

|  |  |
| --- | --- |
| Function | Create a new flight |
| URL Params | None |
| Body | {  "flight\_ID": 1,  "destination": {  "airport\_ID": 1,  "code": "YYZ",  "name": "Toronto Pearson International Airport",  "city": "Toronto",  "province": "Ontario"  },  "origin": {  "airport\_ID": 2,  "code": "YVR",  "name": "Vancouver International Airport",  "city": "Vancouver",  "province": "British Columbia"  },  "aircraft": {  "aircraft\_ID": 1,  "model": "Boeing 737",  "manufacturer": "Boeing",  "airline": "Air Canada",  "capacity": 160,  "rows": 27,  "columns": 6,  "numAisles": 1  },  "departure\_time": "2024-06-17T12:00:00",  "arrival\_time": "2024-06-17T15:00:00",  "status": "ON\_TIME"  } |
| Route | https://localhost:8080/flight |
| Returns | The New Flight (Single Object) |

PUT

|  |  |
| --- | --- |
| Function | Update an existing flight |
| URL Params | {id of flight} |
| Body | {  "flight\_ID": 1,  "destination": {  "airport\_ID": 1,  "code": "YYZ",  "name": "Toronto Pearson International Airport",  "city": "Toronto",  "province": "Ontario"  },  "origin": {  "airport\_ID": 2,  "code": "YVR",  "name": "Vancouver International Airport",  "city": "Vancouver",  "province": "British Columbia"  },  "aircraft": {  "aircraft\_ID": 1,  "model": "Boeing 737",  "manufacturer": "Boeing",  "airline": "Air Canada",  "capacity": 160,  "rows": 27,  "columns": 6,  "numAisles": 1  },  "departure\_time": "2024-06-17T12:00:00",  "arrival\_time": "2024-06-17T15:00:00",  "status": "ON\_TIME"  } |
| Route | https://localhost:8080/flight/{id} |
| Returns | The New Flight (Single Object) |

DELETE

|  |  |
| --- | --- |
| Function | Delete flight by id |
| URL Params | {id of flight to be delated} |
| Body | None |
| Route | https://localhost:8080/flight/{id } |
| Returns | List of Flights(List<Flight>) |

Booking

GET

|  |  |
| --- | --- |
| Function | Get bookings by id |
| URL Params | {id of booking} |
| Body | None |
| Route | https://localhost:8080/booking/{id} |
| Returns | Single Booking |

|  |  |
| --- | --- |
| Function | Get all bookings |
| URL Params | None |
| Body | None |
| Route | https://localhost:8080/bookings |
| Returns | List of Bookings(List<Booking>) |

|  |  |
| --- | --- |
| Function | Get bookings by passenger id |
| URL Params | {id of passenger} |
| Body | None |
| Route | https://localhost:8080/booking/passenger/{id} |
| Returns | List of Bookings(List<Booking>) |

|  |  |
| --- | --- |
| Function | Get bookings by flight id |
| URL Params | {id of flight} |
| Body | None |
| Route | https://localhost:8080/booking/flight/{id} |
| Returns | List of Bookings(List<Booking>) |

POST

|  |  |
| --- | --- |
| Function | Create a new bookng/book a seat on a flight |
| URL Params | None |
| Body | {  "booking\_ID": 0,  "flight\_ID": 0,  "passenger\_ID": 3,  "seatRow": 1,  "seatColumn": 3  } |
| Route | https://localhost:8080/flight/book |
| Returns | The New Booking (Single Object) |

PUT

|  |  |
| --- | --- |
| Function | Update a booking |
| URL Params | {id of a booking to update} |
| Body | {  "booking\_ID": 0,  "flight\_ID": 0,  "passenger\_ID": 4,  "seatRow": 2,  "seatColumn": 3  } |
| Route | https://localhost:8080/flight/book/update/{id} |
| Returns | The Updated Booking (Single Object) |

DELETE

|  |  |
| --- | --- |
| Function | Booking to delete |
| URL Params | {id of a booking to delete} |
| Body | None |
| Route | https://localhost:8080/flight/book/delete/{id} |
| Returns | The Removed Booking (Single Object) |

Passenger

GET

|  |  |
| --- | --- |
| Function | Get all passengers |
| URL Params | None |
| Body | None |
| Route | https://localhost:8080/passengers |
| Returns | A list of all passengers (List<passengers>) |

|  |  |
| --- | --- |
| Function | Get passenger by id |
| URL Params | {id of passenger} |
| Body | None |
| Route | https://localhost:8080/passenger/{id} |
| Returns | A single passenger or null |

|  |  |
| --- | --- |
| Function | Get passenger by name |
| URL Params | {first name} {last name} |
| Body | None |
| Route | https://localhost:8080/search\_passenger?first-name={firstname}&lastname={lastname} |
| Returns | A List of Passengers (List<passengers>) |

POST

|  |  |
| --- | --- |
| Function | Create a passenger |
| URL Params | None |
| Body | Passenger\_ID Object (Example):   {  "passenger\_ID": "12",  "first\_name": "Bill",  "last\_name": "Nye",  "email": "Bill.Nye.Science@hotmail.com"  } |
| Route | https://localhost:8080/passenger |
| Returns | The Inserted Passenger |

PUT

|  |  |
| --- | --- |
| Function | Update a passenger |
| URL Params | ID of the Passenger to be Updated |
| Body | Passenger\_ID Object (Example):   {  "passenger\_ID": "12",  "first\_name": "Bill",  "last\_name": "Nye",  "email": "Bill.Nye.Science@gmail.com"  } |
| Route | [https://localhost:8080/passenger/{id](https://localhost:8080/passenger/%7bid)} |
| Returns | The Updated Passenger or null |

DELETE

|  |  |
| --- | --- |
| Function | Delete by id |
| URL Params | {id} |
| Body | None |
| Route | https://localhost:8080/airport/{id} |
| Returns | A single deleted Passenger or null |