

Part 1. Consider the GET request: /api/v0/aircrafts/export

- Read the documentation in Swagger
<http://192.168.40.100:8000/swagger-ui/index.html#/Aircraft/exportAllAsCsvFile> and describe what this method does.

Login with user: john and password: john123
<http://192.168.40.100:8000/swagger-ui/index.html#/Aircraft/exportAllAsCsvFile> and we can see

Documentation about Flight ticket booking API

Swagger.
Supported by SMARTBEAR

/api-docs

Flight ticket booking API

00.06 OAS3

/api-docs

FTB API Support - Website
Send email to FTB API Support

Servers

http://192.168.40.100:8000 - Generated server url

Filter by tag

Aircraft

Aircraft resource

Airport

Airport resource, CRUD operations

Data generator

Generate additional fresh fake data for testing purposes.

We can see such different buttons:

Aircraft Aircraft resource**Airport** Airport resource, CRUD operations**Data generator** Generate additional fresh fake data for testing purposes.**Debug** Debug assistance**Flight** Flight resource. Flight booking is possible as well!**Passenger** Passenger resource.**User** User resource. CRUD+ operations.**Version** This is the way to get app/API version info.

When we click on each button we can see all commands that we can do with this api Flight ticket booking API and all responses are written here. We can delete, get, patch, post, put the information with this API. By clicking on all buttons we can see detailed menu :

Aircraft

Aircraft resource

DELETE

</api/v0/aircrafts/{id}>

Attempt to delete an entity by its id.

GET

</api/v0/aircrafts/{id}>

Get an entity by its id.

GET

</api/v0/aircrafts>

Get all entities available.

GET

</api/v0/aircrafts/paged>

Get entities as a paged list.

GET

</api/v0/aircrafts/page/{number}>

Get entities available on the page.

GET

</api/v0/aircrafts/model/{modelName}>

Attempt to get an aircraft by its model name.

GET

</api/v0/aircrafts/manufacturer/{manufacturerName}>

Attempt to get an aircraft by its manufacturer name.

GET

[/api/v0/aircrafts/export](#)

Attempt to export all aircraft records to CSV file.

Parameters

Try it out

No parameters

Responses

Code	Description	Links
200	<p>OK</p> <p>Media type</p> <p><i>*/*</i></p> <p>Controls Accept header.</p> <p>Example Value Schema</p> <p>[]</p>	No links

Bad Request

Media type

/

Example Value

Schema

```
{
  "timestamp": "2023-12-12T10:33:58.672Z",
  "status": "string",
  "message": "string",
  "details": [
    "string"
  ]
}
```

PATCH

[/api/v0/aircrafts/{id}](#)

Partial update using JSON-Patch operations.

POST

[/api/v0/aircrafts](#)

Attempt to create an entity by using its DTO.

POST

[/api/v0/aircrafts/import](#)

Attempt to import aircraft data from CSV file.

POST

[/api/v0/aircrafts/import/async](#)

Attempt to import aircraft data from CSV file asynchronously.

PUT

[/api/v0/aircrafts/{id}](#)

Attempt to update an entity by using its DTO.

For example we can see information form our own app with port 8108 about flights . Let us take flightid 56

http://192.168.40.100:8108/swagger-ui/index.html#/Flight/findById_2

Responses

Curl

```
curl -X 'GET' \
  'http://192.168.40.100:8108/api/v0/flights/56' \
  -H 'accept: */*'
```

Request URL

```
http://192.168.40.100:8108/api/v0/flights/56
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "flightId": 56, "flightNumber": "IA-TEX101", "departureAirportCode": "CID", "destinationAirportCode": "TEX", "departureDate": [2023, 10, 7], "arrivalDate": [2023, 10, 7], "departureTime": "09:00", "arrivalTime": "15:00", "gate": "12", "status": "12", "flightCharge": 100, "aircraftId": 36, "passengerIds": [36], "id": 56 }</pre> <p>Response headers</p>

- How to run this method from curl? What happened?

We can see the info about flight with flightid= 56 with command curl

```
curl -v -X "GET" http://192.168.40.100:8108/api/v0/flights/56 --user "john:john123"
```

```
C:\Users\irapa>curl -v -X "GET" http://192.168.40.100:8108/api/v0/flights/56 --user "john:john123"
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 192.168.40.100:8108...
* Connected to 192.168.40.100 (192.168.40.100) port 8108
* Server auth using Basic with user 'john'
> GET /api/v0/flights/56 HTTP/1.1
> Host: 192.168.40.100:8108
> Authorization: Basic am9objpb2huMTIz
> User-Agent: curl/8.4.0
> Accept: */*
>
< HTTP/1.1 200
< Set-Cookie: JSESSIONID=786A8F88CE13C99394B3AF4647624292; Path=/; HttpOnly
< X-Content-Type-Options: nosniff
< X-XSS-Protection: 1; mode=block
< Cache-Control: no-cache, no-store, max-age=0, must-revalidate
< Pragma: no-cache
< Expires: 0
< X-Frame-Options: SAMEORIGIN
< Content-Type: application/json
< Transfer-Encoding: chunked
< Date: Tue, 12 Dec 2023 15:04:56 GMT
<
{"flightId":56,"flightNumber":"IA-TEX101","departureAirportCode":"CID","destinationAirportCode":"TEX","departureDate":[2023,10,7],"arrivalDate":[2023,10,7],"departureTime":"09:00","arrivalTime":"15:00","gate":"12","status":"12","flightCharge":100.0,"aircraftId":36,"passengerIds":[36],"id":56}* Connect
host 192.168.40.100 left intact
```

- How to redirect the result to a file instead of a terminal?

```
curl -v -X "GET" http://192.168.40.100:8108/api/v0/flights/56 --user "john:john123" | cat > flights
```

All info about this flight will be in file flights

```
[ipapara@c7-sandbox ~]$ cat flights
{"flightId":56,"flightNumber":"IA-TEX101","departureAirportCode":"CID","destinationAirportCode":"TEX","departureDate":[2023,10,7],"arrivalDate":[2023,10,7],"departureTime":"09:00","arrivalTime":"15:00","gate":"12","status":"12","flightCharge":100.0,"aircraftId":36,"passengerIds":[36],"id":56}[ipapara@c7-sandbox ~]$ ^C
[ipapara@c7-sandbox ~]$
```

- Say, we need to see an empty result to check how the method works in this case. What preparation needs to be done in the system?

We can do empty info in all fields in this flight with flightid 56 manually in DB

25	56	[NULL]	[NULL]	[NULL]	[NULL]	0	[NULL]	[NULL]	[NULL]	[NULL]

And then use get with Flight

Flight

Flight resource. Flight booking is possible as well!

Curl

```
curl -X 'GET' \
'http://192.168.40.100:8108/api/v0/flights/56' \
-H 'accept: */*'
```

Request URL

```
http://192.168.40.100:8108/api/v0/flights/56
```

Server response

CodeDetails

200

Response body

```
{
  "flightId": 56,
  "flightNumber": null,
  "departureAirportCode": null,
  "destinationAirportCode": null,
  "departureDate": null,
  "arrivalDate": null,
  "departureTime": null,
  "arrivalTime": null,
  "gate": null,
  "status": null,
  "flightCharge": 0,
  "aircraftId": 0,
  "passengerIds": [],
  "id": 56
}
```

Response headers

```
cache-control: no-cache,no-store,max-age=0,must-revalidate
connection: keep-alive
content-type: application/json
date: Tue,12 Dec 2023 15:20:10 GMT
expires: 0
keep-alive: timeout=60
pragma: no-cache
transfer-encoding: chunked
x-content-type-options: nosniff
x-frame-options: SAMEORIGIN
x-xss-protection: 1; mode=block
```

With curl from cmd

'Content-Type: application/x-www-form-urlencoded; charset=UTF-8' -header. This header specifies the type of content that is being sent in the request

--request option in curl is used to specify the HTTP method to be used in the request. This option allows you to explicitly set the type of HTTP request you want to perform.

POST - it is our HTTP method

https://<idm-domain>.identity.<data-center>.oraclecloud.com/oauth/tokens - This is the URL that is being used to obtain the access token.

-d 'grant_type=password &username=tenantAdminUser &password=Fusionapps1&scope=http://www.example.com'

This option is used to specify the data that is being sent in the request body. In this case, it is grant_type=password &username=tenantAdminUser&password=Fusionapps1&scope=http://www.example.com.