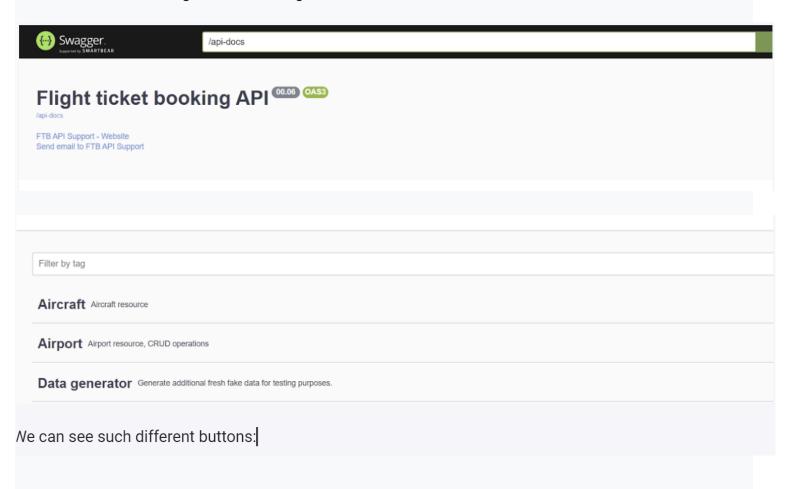
Part 1. Consider the GET request: /api/v0/aircrafts/export

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

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

Documentation about Flight ticket booking API



Filter by tag
Aircraft Aircraft resource
Airport Airport resource, CRUD operations
All port Allport Goodie, and operations
Data generator Generate additional fresh fake data for testing purposes.
Data generator contrate additional restriance data for testing purposes.
Debug Debug assistance
Debug bestgatestative
Flight Flight resource. Flight booking is possible as well!
Tinght regimental regi
Passenger Passenger resource.
r assenger raddings resource.
User User resource, CRUD+ operations.
USCI Soci tosociros, ertos, epitatoria.
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 cat 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 CONTROL OF THE CO
/api/v0/aircrafts/model/{modelName}
Attempt to get an aircraft by its model name.
GET CONTROL OF THE CO
/api/v0/aircrafts/manufacturer/{manufacturerName}
Attempt to get an aircraft by its manufacturer name.
GET CONTROL OF THE CO
/api/v0/aircrafts/export
Attempt to export all aircraft records to CSV file.
Parameters
Γry it out
No parameters
Responses
Description
Description Description
OK
Media type
/
Controls Accept header.
Example Value
Schema

```
4
         Media type
```

Bad Request

/

Example Value

Schema

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

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/asvnc

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://server_ip:8108/swagger-ui/index.html#/Flight/findByld_2

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://server_ip:8108/api/v0/flights/56 --user "john:john123"

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

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

All info about this flight will be in file flights

```
[ipapara@c7-sandbox ~]S cat flights

{"flightId":56, "flightNumber":"IA-TEX101", "departureAirportCode":"CID", "destinationAirportCode":"TEX", "departureDate":[2023,10,7], "arrivalDate":[2023,10,7], "departureTime":"09:00", "arriws1:00", "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



And then use get with Fligt

```
Server response
Code
             Details
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
```

With curl from cmd

```
- Authorization: Basic am9objpqb2huMTIz
User-Agent: curl/8.4.0
- Accept: */*

HTTP/1.1 200
- Set-Cookie: JSESSIONID=8180DF936708E3282627C11ED736D0B5; 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 16:34:38 GMT

"flightId":56, "flightNumber":null, "departureAirportCode":null, "destinationAirportCode":null, "departureDate":null, "arrivalDate":null, "departureTime":null
rivalTime":null, "gate":null, "status":null, "flightCharge":0.0, "aircraftId":0, "passengerIds":[], "id":56}* Connection #0 to host 192.168.40.100 left intact
```

Part 2. Explain the components of URI:

https://john.doe@www.example.com:8080/forum/questions/?tag=networking&order=newest#top

Https - protocol component specifies which protocol being used to access the resource

john.doe@www.example.com - host

8080 - port component, which specifies the port number where the server is listening

/forum/questions/ - path component specifies the location of the resource on the server

?tag=networking&order=newest#top - parameters component contains additional information that the server can use to process the request.

telnet://192.0.5.105:23/

Telnet - here we use telnet protocol

192.0.5.105 - it is an IP address

23 - port

Part 3* (optional for 100 points): Explain each component of the following command:

curl -i -H 'X-USER-IDENTITY-DOMAIN-NAME: OAuthTestTenant125' -H 'Authorization: Basic MzAzYTI00TItZDY0Zi00ZTA0LWI30GYtYjQzMzAwNDczMTJi0II5Sk5NSkdFc0ZqUkxWZVZsdVMz' -H 'Content-Type: application/x-www-form-urlencoded;charset=UTF-8' --request POST https://<idm-domain>.identity.<data-center>.oraclecloud.com/oauth/tokens -d 'grant_type=password & username=tenantAdminUser & password=Fusionapps1&scope=http://www.example.com'

i (or --include): Includes the HTTP response headers in the output along with the response body.

H (or --header): Sets a specific HTTP request header. It can be used to pass various parameters, such as setting an authorization token or other custom headers.

'X-USER-IDENTITY-DOMAIN-NAME: OAuthTestTenant125' This header specifies the name of the identity domain

-H 'Authorization: Basic

MzAzYTI0OTItZDY0Zi00ZTA0LWI3OGYtYjQzMzAwNDczMTJi0ll5Sk5NSkdFc0ZqUkxWZVZsdVMz' - header

This header specifies the authorization credentials.

'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 = tenant Admin User &password = Fusion apps 1 &scope = http://www.example.com.