REST API Document

# API Search flights

## 1. API Specs

|  |  |
| --- | --- |
| Name | Search flights |
| Description | Search domestic or international flights with one-way or return ticket supported |
| URL | https://{{flight\_booking}}/flight-services/v1/flights |
| Method | POST |
| Header | * Content-Type: application/json |
| Params | * N/A |
| Request Body | {  "departure\_city\_code": "SGN",  "departure\_date": "28-12-2024",  "destination\_city\_code": "HAN",  "return\_date": "29-12-2024",  "passengers": {  "adults": 2,  "children": 1,  "baby": 0,  }  "coupon\_code": “VIETJETAIR”,  "low\_fares\_option ": true,  } |
| Response | Status Code: 201  {  "meta": {  "code": "201000",  "type": "SUCESS",  "message": "Success",  "service\_id": "flight-service",  "extra\_meta": {}  },  "data": {  "SGN-HAN": {  "departure\_date": "28-12-2024",  "price": {  "total\_price": 2144600,  "price\_discount": 0,  "price\_before\_discount": 1290000,  "price\_after\_discount": 1290000  },  "class": "Skyboss",  "flight\_code": "VJ198",  },  "HAN-SGN": {  "departure\_date": "29-12-2024",  "price": {  "total\_price": 3624200,  "price\_discount": 0,  "price\_before\_discount": 2660000,  "price\_after\_discount": 2660000  },  "class": "Skyboss",  "flight\_code": "VJ205",  }  }  Status Code: 404  {  "meta": {  "code": "404000",  "type": "FLIGHT\_NOT\_FOUND",  "message": "Flight not found. Please try again",  "service\_id": "flight-service"  },  "data": null  }  {  "meta": {  "code": "404001",  "type": "CITY\_CODE\_NOT\_FOUND",  "message": "City code not found. Please try again",  "service\_id": "flight-service"  },  "data": null  } |
| Sample | curl --location --request GET 'https://flight-booking.dev/flights' \  --header 'Content-Type: application/json' \  --data '{  "SGN-HAN": {  "departure\_date": "28-12-2024",  "price": {  "total\_price": 2144600,  "price\_discount": 0,  "price\_before\_discount": 1290000,  "price\_after\_discount": 1290000  }  },  "HAN-SGN": {  "departure\_date": "29-12-2024",  "price": {  "total\_price": 3624200,  "price\_discount": 0,  "price\_before\_discount": 2660000,  "price\_after\_discount": 2660000  }  }  }' |

## 2. Request Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| departure\_city\_code | String | x |  | City code of departure country |
| departure\_date | String | x |  | Departure day |
| destination\_city\_code | String | x |  | City code of destination country |
| return\_date | String |  |  | Return day |
| passengers.adults | Number | x | 1 | Number of adults of a flight |
| passengers.children | Number |  | 0 | Number of children of a flight |
| passengers.baby | Number |  | 0 | Number of babies of a flight |
| coupon\_code | String |  |  | Coupon code |
| low\_fares\_option | Boolean |  | false | An option to retrieve flights with lowest fare as possible |

## 3. Response Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| SGN-HAN | String | x |  | Departure and destination city codes |
| departure\_date | String | x |  | Departure day |
| class | String | x |  | Class of the flight |
| flight\_code | String | x |  | Code of the flight |

**Price**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| total\_price | Int | x |  | Total price of a flight |
| total\_discount | int | x | 0 | Toal discount of a flight |
| price\_before\_discount | int | x |  | Price flight before applying discount |
| price\_after\_discount | int | x |  | Price flight after applying discount |

## 4. Errors

|  |  |  |  |
| --- | --- | --- | --- |
| Status Code | Code | Type | Description |
| 201 | 201000 | SUCCESS | Success |
| 404 | 404000 | FLIGHT\_NOT\_FOUND | Could not be able to find flight based on posted data |
| 404001 | CITY\_CODE\_NOT\_FOUND | Could not find the city code provided in the data |

# API Book a flight

## 1. API Specs

|  |  |
| --- | --- |
| Name | Book a flight |
| Description | Book a flight with passenger and detailed flight information |
| URL | https://{{flight\_booking}}/flight-services/v1/flights-booking |
| Method | POST |
| Header | * Content-Type: application/json |
| Params | * N/A |
| Request Body | {  "passenger\_info": {  "first\_name": "first",  "last\_name": "last",  "birth\_day": "01-01-1999",  "country": "Vietnam",  "passport\_citizen\_id": "123456789",  "address": "Vietnam, Saigon",  "remember\_credentails": true  },  "flight\_info": {  "departure": {  "departure\_city\_code": "SGN",  "destination\_city\_code": "HAN",  "flight\_code": "VJ162",  "flight\_date": "28-12-2024",  "flight\_start\_time": "00:05",  "flight\_end\_time": "02:15",  "class": "Skyboss"  },  "return": {  "departure\_city\_code": "HAN",  "destination\_city\_code": "SGN",  "flight\_code": "VJ197",  "flight\_date": "29-12-2024",  "flight\_start\_time": "05:30",  "flight\_end\_time": "07:40",  "class": "Skyboss",  }  }  } |
| Response | Status Code: 201  {  "meta": {  "code": "201000",  "type": "SUCESS",  "message": "Success",  "service\_id": "flight-service",  "extra\_meta": {}  },  "data": {  “message”: “Flight booked successfully.”  }  Status Code: 401  {  "meta": {  "code": "401000",  "type": "UNAUTHORIZED\_ACCESS",  "message": "Please login to continue",  "service\_id": "flight-service"  },  "data": null  }  Status Code: 503  {  "meta": {  "code": "503000",  "type": "SERVICE\_UNAVILABLE",  "message": "Service is temporarily unavailable. Please try again",  "service\_id": "flight-service"  },  "data": null  } |
| Sample | curl --location --request GET 'https://flight-booking.dev/flights-booking' \  --header 'Content-Type: application/json' \  -- data: {  “message”: “Flight booked successfully.”  } |

## 2. Request Body

**passenger\_info**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| first\_name | String | x |  | First name of passenger in the passport |
| last\_name | String | x |  | Last name of passenger in the passport |
| birth\_day | String | x |  | Birthday of passenger |
| country | String | x |  | Country of passenger |
| passport\_citizen\_id | String | x |  | Passport or citizen id of passenger |
| address | String |  |  | Address of passenger |
| remember\_credentails | Boolean |  |  | Remember the current typed in credentials for future booking |

**flight\_info => depature, return**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| departure\_city\_code | String | x |  | Departure city code |
| destination\_city\_code | String | x |  | Destination city code |
| flight\_code | String | x |  | Flight code |
| flight\_date | String | x |  | Date that the flight will take place |
| flight\_start\_time | String | x |  | Start time of the flight |
| flight\_end\_time | String | x |  | End time of the flight |
| class | String | x |  | Class of the flight |

## 3. Response Body

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| message | String |  |  | Message that notifies the user of the status of flight booking attempt |

## 4. Errors

|  |  |  |  |
| --- | --- | --- | --- |
| Status Code | Code | Type | Description |
| 201 | 201000 | SUCCESS | Success flight booking |
| 401 | 401000 | UNAUTHORIZED\_ACCESS | Indicate that user need to login to continue the process |
| 503 | 503000 | SERVICE\_UNAVILABLE | Server service is temporarily unavailable. |

# API Get history of booked flight.

## 1. API Specs

|  |  |
| --- | --- |
| Name | Get history of flight |
| Description | Get history of a booked flight |
| URL | https://{{flight\_booking}}/flight-services/v1/flights-booking-history/{{booking\_id}} |
| Method | GET |
| Header | * Content-Type: application/json |
| Params | * N/A |
| Request Path Variable | booking\_id: int (required) |
| Response | Status Code: 200  {  "meta": {  "code": "200000",  "type": "SUCESS",  "message": "Success",  "service\_id": "flight-service",  "extra\_meta": {}  },  "data": {  "flight\_info": {  "departure": {  "departure\_city\_code": "SGN",  "destination\_city\_code": "HAN",  "fligth\_code": "VJ162",  "fligth\_date": "28-12-2024",  "fligth\_start\_time": "00:05",  "fligth\_end\_time": "02:15",  "class": "Skyboss"  },  "return": {  "departure\_city\_code": "HAN",  "destination\_city\_code": "SGN",  "fligth\_code": "VJ197",  "fligth\_date": "29-12-2024",  "fligth\_start\_time": "05:30",  "fligth\_end\_time": "07:40",  "class": "Skyboss"  }  }  }  Status Code: 401  {  "meta": {  "code": "401000",  "type": "UNAUTHORIZED\_ACCESS",  "message": "Please login to continue",  "service\_id": "flight-service"  },  "data": null  }  Status Code: 503  {  "meta": {  "code": "503000",  "type": "SERVICE\_UNAVILABLE",  "message": "Service is temporarily unavailable. Please try again",  "service\_id": "flight-service"  },  "data": null  } |
| Sample | curl --location --request GET 'https://flight-booking.dev/flights-booking/history/12345' \  --header 'Content-Type: application/json' \  -- data: {  "flight\_info": {  "departure": {  "departure\_city\_code": "SGN",  "destination\_city\_code": "HAN",  "fligth\_code": "VJ162",  "fligth\_date": "28-12-2024",  "fligth\_start\_time": "00:05",  "fligth\_end\_time": "02:15",  "class": "Skyboss"  },  "return": {  "departure\_city\_code": "HAN",  "destination\_city\_code": "SGN",  "fligth\_code": "VJ197",  "fligth\_date": "29-12-2024",  "fligth\_start\_time": "05:30",  "fligth\_end\_time": "07:40",  "class": "Skyboss"  }  }  } |

## 2. Request Path Variable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| booking\_id | String | x |  | Id of the flight booking to get details info |

## 3. Response Body

**flight\_info => depature, return**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | Type | Required | Default | Description |
| departure\_city\_code | String | x |  | Departure city code |
| destination\_city\_code | String | x |  | Destination city code |
| flight\_code | String | x |  | Flight code |
| flight\_date | String | x |  | Date that the flight will take place |
| flight\_start\_time | String | x |  | Start time of the flight |
| flight\_end\_time | String | x |  | End time of the flight |
| class | String | x |  | Class of the flight |

## 4. Errors

|  |  |  |  |
| --- | --- | --- | --- |
| Status Code | Code | Type | Description |
| 200 | 200000 | SUCCESS | Successful flight booking details info retrieval |
| 401 | 401000 | UNAUTHORIZED\_ACCESS | Indicate that user need to login to continue the process |
| 503 | 503000 | SERVICE\_UNAVILABLE | Server service is temporarily unavailable. |