

Flyhub Flight API Documentation

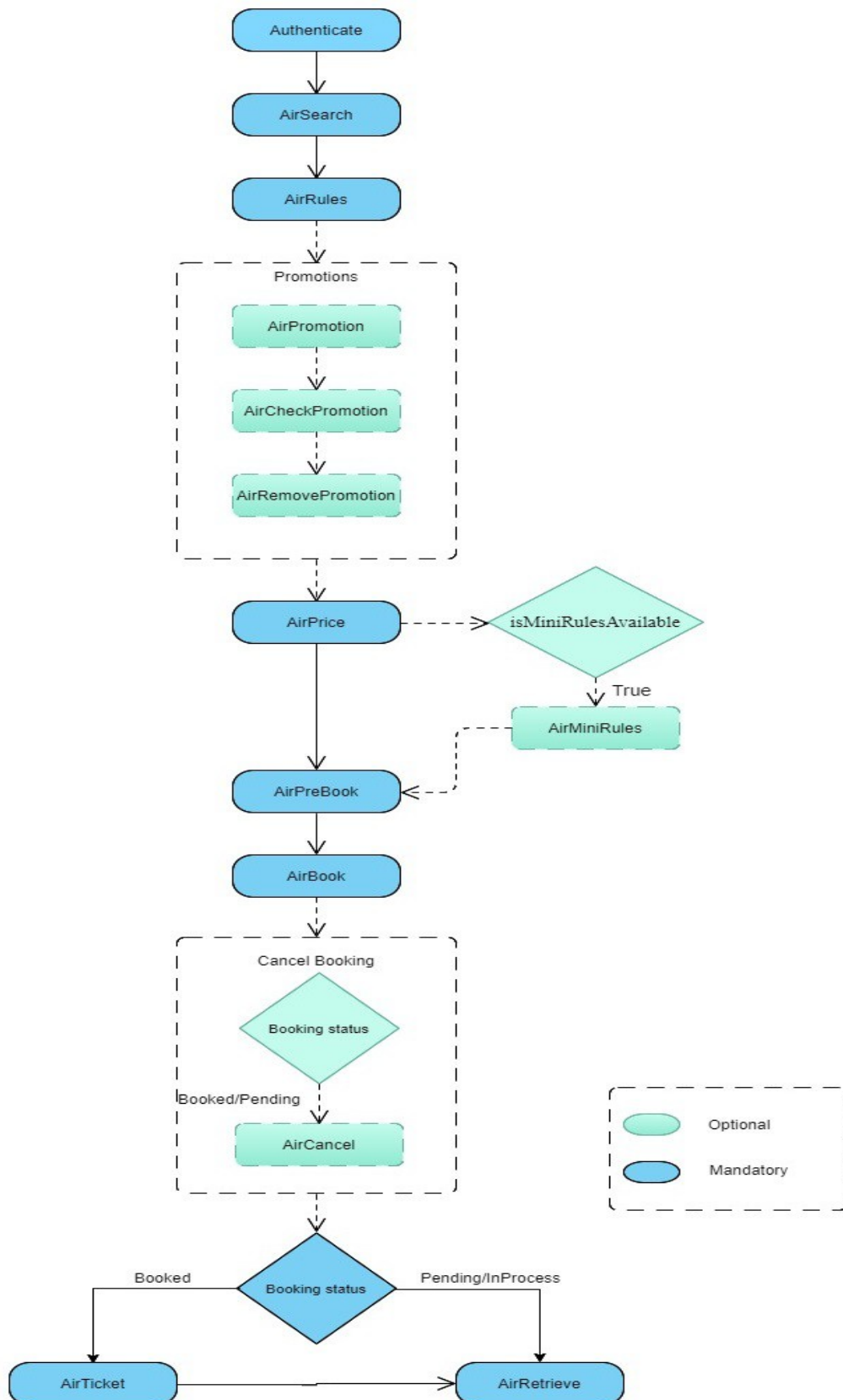
Document Revision History

Date	Version	Description
19-09-2020	1.0	Document's first version
19-10-2020	1.1	Added new API for getting balance, downloading invoice and downloading tickets

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1. Process Flow Diagram



2. Common Headers:

These headers are common headers and to be used in all the API calls.

Header key	Header value
Content-Type	application/json
Accept-Encoding	gzip, deflate

3. Root URL:

Below are the common URL endpoints for all the APIs.

Sandbox	http://api.sandbox.flyhub.com/api/v1/
Production	https://api.flyhub.com/api/v1/

4. Authentication API:

Authentication API can be used to generate authentication token, which is to be used as bearer token in all other API calls. The token generated can be used up to 7 days.

URL	<RootUrl>/Authenticate
API Method	POST

Request:

Level	Element	Type	Description	Mandatory
1	User Name	String	Username provided by Flyhub	Yes
2	Password	String	Password provided by Flyhub	Yes

Sample Request:

```
{
  "username": "your username",
  "password": "password"
}
```

Response:

Level	Element	Type	Description	Mandatory
1	First name	String	First Name of the user	Yes
2	Last Name	String	Last Name of the user	Yes
3	Email	String	Email id of the user	Yes
4	Token Id	String	It is an Unique id and it is autogenerated for further request	Yes
5	Status code	Enumeration	Response Status <i>0-Notset, 1-Success, 2-Failed</i>	Yes
6	Error	Object	Object contains error details	Yes
6.1	Error code	Enumeration	Error code. See Error codes in Annexure	No
6.2	Error Message	String	Contains error message	No

Sample Response:

```
{
  "FirstName": "first name",
  "LastName": "last name",
  "Email": "your username",
  "TokenId":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1bmVudWVmbmFtZSI6InRlY2hhZG1pbkBoYWx0cmlwLmNvbSIsImh0dHA6Ly9zY2hlbWFzLmVudC5jb20vd3MvMjAwOC8wNi9pZGVudG10eS9jbGFpbXMvdXNlcmRhdGEiOiIxfDMiLCJuYmYiOiJlMzgzNTU1MzgzImV4cCI6MTUzOTQ2MDMzOCwiaWF0IjoxNTM4ODU1NTM4LCJpc3MiOiJodG9jYWxob3N0OjQ5OTExIiwiaXN0IjoiZjY5YXob3N0In0.ZunZBR9MdnhdZbsaOo44LzMrNDECC115LjmqWv-TiE",
  "Status":1,
  "Error": null
}
```

5. Flight APIs:

These APIs can be used for creating a booking.

5.1. Air Search:

API to search available flights based on the origin, destination, travel date and passenger details mentioned in the availability request.

URL	<RootUrl>/AirSearch
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	AdultQuantity	Integer	Number of adults	Yes
2	ChildQuantity	Integer	Number of children	Yes
3	InfantQuantity	Integer	Number of infants	Yes
4	EndUserIp	String	User's IP Address	Yes
5	JourneyType	Enumeration	Specify Journey Type. Possible inputs <i>1.Oneway 2.Return 3.Multicity</i>	Yes
6	Segments	Array of segment Elements	List Of segments	Yes
6.1	Origin	String	IATA code of the origin city <i>Eg.DEL,MAA</i>	Yes
6.2	Destination	String	IATA code of the destination City <i>Eg.HYD,BLR</i>	Yes

6.3	Cabin Class	Enumeration	Cabin class. Possible inputs are <i>1.Economy 2.Premium Economy 3.Business 4.First</i>	Yes
6.4	Departure Date Time	Date	Departure Date in “yyyyy-mm-dd” format <i>Example, "2019-04-30"</i>	Yes
7	Preferred Airlines	String Array	This filter is used for filtering airline	No
8	Exclude Airlines	String Array	This filter is used for excluding airlines	No

Sample Request:

```
{
  "AdultQuantity":1,
  "ChildQuantity":0,
  "InfantQuantity":0,
  "EndUserIp":"192.168.1.1",
  "JourneyType":"1",
  "Segments":[{
    "Origin":"DEL",
    "Destination":"DXB",
    "CabinClass":"1",
    "DepartureDateTime":"2018-12-04"
  }]
}
```

Response:

Level	Element	Type	Description	Mandatory
1	Search Id	String	Search id	Yes
2	Results	Array Of Result elements	Array of the flight results. Can be empty if there is no flights available.	Yes
2.1	Result Id	String	Flight Result Id	Yes
2.2	IsRefundable	Boolean	Is the fare is refundable or not	Yes
2.3	Fares		List of Fares	
2.3.1	BaseFare	Decimal	Base fare of the booking	Yes
2.3.2	Tax	Decimal	Tax of the booking	Yes
2.3.3	Currency	String	ISO Currency code	Yes
2.3.4	OtherCharges	Decimal	Additional charges by airline/airport if any	Yes
2.3.5	Discount	Decimal	Discount amount of the booking	Yes
2.3.6	AgentMarkup	Decimal	AgentMarkup	Yes
2.3.7	PaxType	Enumeration	Passenger type. Possible values are	Yes

			<i>1.Adult</i> <i>2.Child</i> <i>3.Infant</i>	
2.3.8	PassengerCount	Integer	Number of passengers	Yes
2.3.9	ServiceFee	Decimal	Service fee if any	Yes
2.4	Discount	Decimal	The total discount amount	Yes
2.5	Validatingcarrier	String	Validating Carrier	Yes
2.6	Last Ticket date	DateTime[nullable]	Last Ticket date.	Yes
2.7	Segments		List of segments	
2.7.1	TripIndicator	Enumeration	Trip indicator. Possible values <i>Outbound=1,</i> <i>Inbound=2</i>	Yes
2.7.2	Origin	Element	Element contains details of origin	Yes
2.7.2.1	AirportCode	String	IATA code of the origin airport	Yes
2.7.2.2	AirportName	String	Name of the origin airport	No
2.7.2.3	Terminal	String	Terminal number	No
2.7.2.4	CityCode	String	IATA code of the origin city	Yes
2.7.2.5	CityName	String	Name of the city	Yes
2.7.2.6	CountryCode	String	IATA code of the origin country	Yes
2.7.2.7	CountryName	String	Name of the origin country	Yes
2.7.3	Destination	Element	Element contains details of destination	Yes
2.7.3.1	AirportCode	String	IATA code of the destination airport	Yes
2.7.3.2	AirportName	String	Name of the destination airport	No
2.7.3.3	Terminal	String	Terminal number	No
2.7.3.4	CityCode	String	IATA code of the destination city	Yes
2.7.3.5	CityName	String	Name of the city	Yes
2.7.3.6	CountryCode	String	IATA code of destination country	Yes
2.7.3.7	CountryName	String	Name of the destination country	Yes
2.8	Airline	Element	Element contains airline details	
2.8.1	Airline Code	String	IATA code of the airline	Yes
2.8.2	AirlineName	String	Name of the carrier	Yes
2.8.3	FlightNumber	String	Flight number	Yes
2.8.4	BookingClass	String	Reservation Booking Designator	Yes
2.8.5	Cabinclass	String	Cabin class. Expected values are <i>1.Economy</i> <i>2.PremiumEconomy</i> <i>3.Business</i> <i>4.First</i>	Yes
2.8.6	Operating Carrier	String	Operating Carrier	Yes
2.9	Baggage	String	Baggage and its weight	Yes

2.1	JourneyDuration	String	Total journey Duration in minutes	Yes
2.11	StopQuantity	String	Number of stops. Eg 0,1,1+	Yes
2.12	Equipment	String	Equipment description	No
2.13	TotalFare	Decimal	Total fare of the booking	Yes
2.14	TotalFareWithAgentMarkup	Number	Total fare including agent markup	Yes
2.15	Currency	String	Currency code Eg:BDT,INR..	Yes
2.16	Availability	Integer	Available seats	Yes
2.17	FareType	Enumeration	Fare type. Possible values are 1. <i>NET</i> 2. <i>Instant Ticketing</i>	Yes
2.18	Error	Element		
2.18.1	ErrorCode	Enumeration	Error Code Responding. Refer Annexure	No
2.18.2	ErrorMessage	String	Contains Error Message	No

Sample Response:

```
{
  "SearchId": "1b123aae-dd05-48e7-b12a-b14436595c50",
  "Results": [
    {
      "ResultID": "e80ee235-3a31-4435-a308-4bc8cdd50ec7",
      "IsRefundable": true,
      "Fares": [
        {
          "BaseFare": 14697.67,
          "Tax": 2068.20,
          "Currency": "BDT",
          "OtherCharges": 716.85,
          "Discount": 0.00,
          "PaxType": 1,
          "PassengerCount": 1,
          "ServiceFee": 0.00
        }
      ],
      "Discount": 0.00,
      "Validatingcarrier": "G8",
      "LastTicketDate": null,
      "segments": [
        {
          "TripIndicator": 1,
          "Origin": {
            "Airport": {
              "AirportCode": "DEL",
              "AirportName": "Indira Gandhi Intl",
              "Terminal": "2",
              "CityCode": "DEL",

```

```

    "CityName": "New Delhi",
    "CountryCode": "IN",
    "CountryName": "India"
  },
  "DepTime": "2018-12-04T20:55:00"
},
"Destination": {
  "Airport": {
    "AirportCode": "CCU",
    "AirportName": "Netaji Subhas Chandra",
    "Terminal": "",
    "CityCode": "CCU",
    "CityName": "Kolkata",
    "CountryCode": "IN",
    "CountryName": "India"
  },
  "ArrTime": "2018-12-04T23:00:00"
},
"Airline": {
  "AirlineCode": "G8",
  "AirlineName": "GoAir",
  "FlightNumber": "105",
  "BookingClass": "A",
  "CabinClass": "Y",
  "OperatingCarrier": "G8"
},
"Baggage": "15 Kg",
"JourneyDuration": "125",
"StopQuantity": "0"
}
],
"TotalFare": 12950.00,
"Currency": "INR",
"Availabilty": 0
},
{
  "ResultID": "3fc1e82b-652d-4e22-a687-754c0178973d",
  "IsRefundable": true,
  "Fares": [
    {
      "BaseFare": 14697.67,
      "Tax": 2068.20,
      "Currency": "BDT",
      "OtherCharges": 716.85,
      "Discount": 0.00,
      "PaxType": 1,
      "PassengerCount": 1,
      "ServiceFee": 0.00
    }
  ]
},

```

```

"Discount": 0.00,
"Validatingcarrier": "G8",
"LastTicketDate": null,
"segments": [
  {
    "TripIndicator": 1,
    "Origin": {
      "Airport": {
        "AirportCode": "DEL",
        "AirportName": "Indira Gandhi Intl",
        "Terminal": "2",
        "CityCode": "DEL",
        "CityName": "New Delhi",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "DepTime": "2018-12-04T10:25:00"
    },
    "Destination": {
      "Airport": {
        "AirportCode": "PAT",
        "AirportName": "Patna",
        "Terminal": "",
        "CityCode": "PAT",
        "CityName": "Patna",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "ArrTime": "2018-12-04T12:10:00"
    },
    "Airline": {
      "AirlineCode": "G8",
      "AirlineName": "GoAir",
      "FlightNumber": "140",
      "BookingClass": "A",
      "CabinClass": "Y",
      "OperatingCarrier": "G8"
    },
    "Baggage": "15 Kg",
    "JourneyDuration": "105",
    "StopQuantity": "0"
  },
  {
    "TripIndicator": 1,
    "Origin": {
      "Airport": {
        "AirportCode": "PAT",
        "AirportName": "Patna",
        "Terminal": "",
        "CityCode": "PAT",

```

```

    "CityName": "Patna",
    "CountryCode": "IN",
    "CountryName": "India"
  },
  "DepTime": "2018-12-04T15:25:00"
},
"Destination": {
  "Airport": {
    "AirportCode": "CCU",
    "AirportName": "Netaji Subhas Chandra",
    "Terminal": "",
    "CityCode": "CCU",
    "CityName": "Kolkata",
    "CountryCode": "IN",
    "CountryName": "India"
  },
  "ArrTime": "2018-12-04T16:50:00"
},
"Airline": {
  "AirlineCode": "G8",
  "AirlineName": "GoAir",
  "FlightNumber": "506",
  "BookingClass": "A",
  "CabinClass": "Y",
  "OperatingCarrier": "G8"
},
"Baggage": "15 Kg",
"JourneyDuration": "85",
"StopQuantity": "0"
}
],
"TotalFare": 12950.00,
"Currency": "INR",
"Availabilty": 0
},
{
  "ResultID": "dee90117-6a81-4c6a-9b50-9e0ca34e69fb",
  "IsRefundable": true,
  "Fares": [
    {
      "BaseFare": 14697.67,
      "Tax": 2068.20,
      "Currency": "BDT",
      "OtherCharges": 716.85,
      "Discount": 0.00,
      "PaxType": 1,
      "PassengerCount": 1,
      "ServiceFee": 0.00
    }
  ]
},

```

```

"Discount": 0.00,
"Validatingcarrier": "G8",
"LastTicketDate": null,
"segments": [
  {
    "TripIndicator": 1,
    "Origin": {
      "Airport": {
        "AirportCode": "DEL",
        "AirportName": "Indira Gandhi Intl",
        "Terminal": "2",
        "CityCode": "DEL",
        "CityName": "New Delhi",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "DepTime": "2018-12-04T05:55:00"
    },
    "Destination": {
      "Airport": {
        "AirportCode": "CCU",
        "AirportName": "Netaji Subhas Chandra",
        "Terminal": "",
        "CityCode": "CCU",
        "CityName": "Kolkata",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "ArrTime": "2018-12-04T08:00:00"
    },
    "Airline": {
      "AirlineCode": "G8",
      "AirlineName": "GoAir",
      "FlightNumber": "101",
      "BookingClass": "A",
      "CabinClass": "Y",
      "OperatingCarrier": "G8"
    },
    "Baggage": "15 Kg",
    "JourneyDuration": "125",
    "StopQuantity": "0"
  }
],
"TotalFare": 12950.00,
"Currency": "INR",
"Availabilty": 0
},
{
  "ResultID": "fc161a07-360e-46c5-9499-e5b40bfe00fb",
  "IsRefundable": true,

```

```

"Fares": [
  {
    "BaseFare": 14697.67,
    "Tax": 2068.20,
    "Currency": "BDT",
    "OtherCharges": 716.85,
    "Discount": 0.00,
    "PaxType": 1,
    "PassengerCount": 1,
    "ServiceFee": 0.00
  }
],
"Discount": 0.00,
"Validatingcarrier": "G8",
"LastTicketDate": null,
"segments": [
  {
    "TripIndicator": 1,
    "Origin": {
      "Airport": {
        "AirportCode": "DEL",
        "AirportName": "Indira Gandhi Intl",
        "Terminal": "2",
        "CityCode": "DEL",
        "CityName": "New Delhi",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "DepTime": "2018-12-04T19:25:00"
    },
    "Destination": {
      "Airport": {
        "AirportCode": "CCU",
        "AirportName": "Netaji Subhas Chandra",
        "Terminal": "",
        "CityCode": "CCU",
        "CityName": "Kolkata",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "ArrTime": "2018-12-04T21:45:00"
    },
    "Airline": {
      "AirlineCode": "G8",
      "AirlineName": "GoAir",
      "FlightNumber": "127",
      "BookingClass": "A",
      "CabinClass": "Y",
      "OperatingCarrier": "G8"
    }
  },

```

```

    "Baggage": "15 Kg",
    "JourneyDuration": "140",
    "StopQuantity": "0"
  }
],
"TotalFare": 12950.00,
"Currency": "INR",
"Availabilty": 0
}
],
"Error": null
}

```

5.2. AirPrice:

API to get the pricing details for a particular result received in Air search API. This API also returns available extra baggage options

URL	<RootUrl>/AirPrice
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	SearchID	String	Search id received in AirSearch response	Yes
2	ResultID	String	Result id of the interested itinerary which was received in AirSearch response	Yes

Sample Request:

```

{
  "SearchID": "1b123aae-dd05-48e7-b12a-b14436595c50",
  "ResultID": "e80ee235-3a31-4435-a308-4bc8cdd50ec7"
}

```

Response:

Level	Element	Type	Description	Mandatory
1	Search id	String	Search id	Yes
2	Results	Array of result elements		Yes
2.1	PassportMandatory	Boolean	Tells whether passport is mandatory or not	Yes

2.2	ExtraServices	Additional services element		Yes
2.2.1	Baggage	List of flight baggage element		Yes
2.2.1.1	BaggageID	String	Baggage Id	Yes
2.2.1.2	Weight	String	Weight	Yes
2.2.1.3	Currency	String	Currency	Yes
2.2.1.4	Price	Decimal	Price	Yes
2.2.1.5	Origin	String	Origin	Yes
2.2.1.6	Destination	String	Destination	Yes
2.2.1.7	PaxID	String	Passenger Id	Yes
2.3	ResultID	String	Flight Result id	Yes
2.4	IsRefundable	Boolean	Is the fare is refundable or not	Yes
2.5	Fares	List of Fare elements	Contains fare details	Yes
2.5.1	BaseFare	Decimal	Base fare	Yes
2.5.2	Tax	Decimal	Tax	Yes
2.5.3	Currency	String	Currency	Yes
2.5.4	OtherCharges	Decimal	Additional Charge by Airline/Airport if any	Yes
2.5.5	Discount	Decimal	Discount amount of the booking	Yes
2.5.6	AgentMarkup	Decimal	AgentMarkup	Yes
2.5.7	PaxType	Enumeration	Passenger type. Possible values <i>1. Adult</i> <i>2. Child</i> <i>3. Infant</i>	Yes
2.5.8	PassengerCount	Integer	Number of passenger	Yes
2.5.9	ServiceFee	Decimal	Service fee amount if applicable	Yes
2.6	Discount	Decimal	Discount amount of the booking	Yes
2.7	ValidatingCarrier	String	ValidatingCarrier	Yes
2.8	LastTicketDate	Date[Nullable]	Last Ticket Date	Yes
2.9	Segments	List of FlightSegment elements	Contains flight segment details	Yes
2.9.1	TripIndicator	Enumeration	Trip indicator. Possible values <i>1. Outbound</i> <i>2. Inbound</i>	Yes
2.9.2	Origin	Element	Contains departure details	Yes
2.9.2.1	Airport	Element	Contains departure airport details	Yes
2.9.2.1.1	AirportCode	String	IATA code for origin Airport	Yes
2.9.2.1.2	AirportName	String	Name of the origin airport	Yes
2.9.2.1.3	Terminal	String	Terminal Number	Yes
2.9.2.1.4	CityCode	String	IATA code for origin city	Yes
2.9.2.1.5	CityName	String	Name of the origin city	Yes
2.9.2.1.6	CountryCode	String	IATA code for Origin country	Yes

2.9.2.1.7	CountryName	String	Name of the origin country	Yes
2.9.2.2	DepTime	Date Time	Departure date time	Yes
2.9.3	Destination	Element	Contains the details destination	Yes
2.9.3.1	Airport	Element	Contains destination airport details	Yes
2.9.3.1.1	AirportCode	String	IATA code for destination Airport	Yes
2.9.3.1.2	AirportName	String	Name of the destination airport	Yes
2.9.3.1.3	Terminal	String	Terminal Number	Yes
2.9.3.1.4	CityCode	String	IATA code for destination city	Yes
2.9.3.1.5	CityName	String	Name of the destination city	Yes
2.9.3.1.6	CountryCode	String	IATA code for destination country	Yes
2.9.3.1.7	CountryName	String	Name of the destination country	Yes
2.9.3.2	ArrTime	Date Time	Arrival date time	Yes
2.9.4	Airline	Element	Element containing the carrier details	Yes
2.9.4.1	AirlineCode	String	IATA code for airline	Yes
2.9.4.2	AirlineName	String	Name of the airline	Yes
2.9.4.3	FlightNumber	String	Flight number	Yes
2.9.4.4	BookingClass	String	Reservation booking designatorCabin class	Yes
2.9.4.5	CabinClass	String	Cabin class. Expected values are <i>1.Economy</i> <i>2.PremiumEconomy</i> <i>3.Business</i> <i>4.First</i>	Yes
2.9.4.6	OperatingCarrier	String	Operating carrier	Yes
2.9.5	Baggage	String	Baggage and its weight	Yes
2.9.6	JourneyDuration	String	Total Journey Duration in minutes	Yes
2.9.7	StopQuantity	String	Total number of stops	Yes
2.9.8	Equipment	String	Equipment description	Yes
2.9.9	AirlinePNR	String	AirlinePNR	No
2.10	TotalFare	Decimal	Total fare	Yes
2.11	TotalFareWithAgent Markup	Decimal	Total fare including agent markup	Yes
2.12	Currency	String	Currency code	Yes
2.13	Availability	Integer	Available seats	Yes
2.14	FareType	Enumeration	Fare type. Possible values <i>1. Instant Ticketing</i> <i>2. Net</i>	Yes
2.15	isMiniRulesAvailable	Boolean	Indicated whether mini fare rules are available for the itinerary	Yes
3	Error	Element	Contains error information	Yes
3.1	ErrorCode	Enumeration	Code Responding to the error. Check Annexure for details	No
3.2	ErrorMessage	String	Contains Error Message	No
3.3	RePriceStatus	Enumeration	Represents reprice status of the	No

			itinerary. Possible values 1. <i>FareUnavailable</i> 2. <i>PriceChange</i> 3. <i>NoPriceChange</i> 4. <i>ItineraryChange</i>	
--	--	--	------------------------------------------------------------------------------------------------------------------------------------------	--

Sample Response:

```

{
  "SearchId": "1b123aae-dd05-48e7-b12a-b14436595c50",
  "Results": [
    {
      "PassportMadatory": false,
      "ExtraServices": {
        "Baggage": [
          {
            "BaggageID": "3a6fb4bd-c58a-4602-adc6-4f6baf3d9e25",
            "Weight": "5 Kg",
            "Currency": "BDT",
            "Price": 2565.00,
            "Origin": "DEL",
            "Destination": "CCU"
          },
          {
            "BaggageID": "2c33086a-89b6-4f8a-982d-6ee74650babd",
            "Weight": "10 Kg",
            "Currency": "BDT",
            "Price": 5130.00,
            "Origin": "DEL",
            "Destination": "CCU"
          },
          {
            "BaggageID": "cc44e5ac-700b-4a83-81eb-713e576c440c",
            "Weight": "15 Kg",
            "Currency": "BDT",
            "Price": 7695.00,
            "Origin": "DEL",
            "Destination": "CCU"
          },
          {
            "BaggageID": "726f2ed0-439a-4288-ba0a-01ccb935bb18",
            "Weight": "30 Kg",
            "Currency": "BDT",
            "Price": 15390.00,
            "Origin": "DEL",
            "Destination": "CCU"
          }
        ]
      },
      "ResultID": "e80ee235-3a31-4435-a308-4bc8cdd50ec7",
      "IsRefundable": true,
    }
  ]
}

```

```

"Fares": [
  {
    "BaseFare": 14697.67,
    "Tax": 2068.20,
    "Currency": "BDT",
    "OtherCharges": 716.85,
    "Discount": 0.0,
    "PaxType": 1,
    "PassengerCount": 1,
    "ServiceFee": 0.00
  }
],
"Discount": 0.00,
"Validatingcarrier": "G8",
"LastTicketDate": null,
"segments": [
  {
    "TripIndicator": 1,
    "Origin": {
      "Airport": {
        "AirportCode": "DEL",
        "AirportName": "Indira Gandhi Intl",
        "Terminal": "2",
        "CityCode": "DEL",
        "CityName": "New Delhi",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "DepTime": "2018-12-04T20:55:00"
    },
    "Destination": {
      "Airport": {
        "AirportCode": "CCU",
        "AirportName": "Netaji Subhas Chandra",
        "Terminal": "",
        "CityCode": "CCU",
        "CityName": "Kolkata",
        "CountryCode": "IN",
        "CountryName": "India"
      },
      "ArrTime": "2018-12-04T23:00:00"
    },
    "Airline": {
      "AirlineCode": "G8",
      "AirlineName": "GoAir",
      "FlightNumber": "105",
      "BookingClass": "A",
      "CabinClass": "Y",
      "OperatingCarrier": "G8"
    }
  },

```

```

    "Baggage": "15 Kg",
    "JourneyDuration": "125",
    "StopQuantity": "0"
  }
],
"TotalFare": 17483.00,
"Currency": "BDT",
"Availabilty": 0
}
],
"Error": null,
"RePriceStatus": 3
}

```

5.3. AirRules:

This is an optional API can be used to get terms and conditions for selected itinerary. It is not mandatory to call this API before booking, but we prefer you to show the rules before booking.

URL	<RootUrl>/AirRules
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	SearchID	String	Search id received in AirSearch response	Yes
2	ResultID	String	Result id of the interested itinerary which was received in AirSearch response	Yes

Sample Request:

```

{
  "SearchID": "1b123aae-dd05-48e7-b12a-b14436595c50",
  "ResultID": "e80ee235-3a31-4435-a308-4bc8cdd50ec7"
}

```

Response:

Level	Element	Type	Description	Mandatory
1	RuleType	String	Rule type code Ex: W2IPO	Yes
2	RuleDetails	String	Rule description	Yes
3	PaxType	Enumeration	Passenger type. Possible values 1. Adult 2. Child	Yes

			3. Infant	
4	AirlineCode	String	IATA Code for the airline Eg:9w	Yes
5	CityPair	String	Origin and destination cities Ex:DAC-CGP	Yes
6	Error	Error element	Element contains error details	Yes
6.1	Errorcode	Enumeration	Code corresponding to the Error. Refer Annexure	No
6.2	ErrorMessage	String	Contains error message	No

Sample Response:

```
[
  {
    "RuleType": "AO9RBINF",
    "RuleDetails": " 1. All Guests, including children and infants, must present valid identification at check-in. It is your responsibility to ensure you have the appropriate travel documents at all times.\r\n\r\n2. Rescheduling -Rs. 950 per pax per segment plus difference of fare.\r\n\r\n3. Check-in starts \"2 hours\" before scheduled departure, and closes 45 minutes prior to the scheduled departure time. Guests are requested to report at least 2 hours prior to departure time, at Go Air Check-in counters.\r\n\r\n4. Cancellation / Changes within \"2 hours\" of departure or failure to check-in for a Go Air flight at least 45 minutes prior to the scheduled departure time will result in the fare being forfeited. We require the request atleast 4 hours prior to departure, After that ticket will be count as a No show.\r\n\r\n5. Cancellation-Rs. 950 per pax per segment plus difference of fare.\r\n\r\n6. Schedule is subject to change and regulatory authority approvals. <br/> <br/>",
    "Paxtype": 3,
    "AirlineCode": "G8",
    "CityPair": "DEL-CCU",
    "Error": null
  }
]
```

5.4. Air Pre-Book:

This API is used for initializing the booking process.

URL	<RootUrl>/AirPreBook
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	Searchid	String	Searchid received in AirSearch response	Yes
2	Resultid	String	Resultid of the interested	Yes

			itinerary	
3	Passengers	List of passenger elements	Contains details about passengers	Yes
3.1	Title	String	Salutation. Expected values 1. <i>Mr</i> 2. <i>Ms</i> 3. <i>Mrs</i>	Yes
3.2	FirstName	String	Passenger's first name	Yes
3.3	LastName	String	Passenger's last name	Yes
3.4	PaxType	Enumeration	Type of passenger. Expected values 1. <i>Adult</i> 2. <i>Child</i> 3. <i>Infant</i>	Yes
3.5	DateOfBirth	String	Passenger's date of birth	Yes
3.6	Gender	Enumeration	Gender. Possible inputs 1. Male 2. Female	Yes
3.7	PassportNumber	String	Passport number	No
3.8	PassportExpiryDate	String	Passport expiry date	No
3.9	PassportNationality	String	Passport nationality	No
3.1	Address1	String	Address of the passenger	Yes
3.11	Address2	String	Additional address field	No
3.12	CountryCode	String	Country code	Yes
3.13	Nationality	String	Passenger's nationality	Yes
3.14	ContactNumber	String	Contact number	Yes
3.15	Email	String	Email address	Yes
3.16	IsLeadPassenger	Boolean	Whether the passenger is lead passenger	Yes
3.17	FFAirline	String	Frequent flyer airline	No
3.18	FFNumber	String	Frequent flyer number	No
3.19	Baggage	Element carrying baggage information		No
3.19.1	BaggageID	String	Baggage id	No
4	PromotionCode	String	Promotion code applied for the booking	No

Sample Request:

```
{
  "SearchID": "1b123aae-dd05-48e7-b12a-b14436595c50",
  "ResultID": "e80ee235-3a31-4435-a308-4bc8cdd50ec7",
  "Passengers": [
```

```

{
  "Title": "Mr",
  "FirstName": "test",
  "LastName": "hal",
  "PaxType": "Adult",
  "DateOfBirth": "1975-10-06",
  "Gender": "Male",
  "Address1": "test",
  "CountryCode": "BD",
  "Nationality": "BD",
  "ContactNumber": "577989789789",
  "Email": "test@m.com",
  "IsLeadPassenger": true
}
]
}

```

Response:

Level	Element	Type	Description	Mandatory
1	SearchID	String	Searchid	Yes
2	Results	List of flight results	Contains the flight details	Yes
2.1	Passport Mandatory	String	Passport Mandatory	Yes
2.2	Extra services	Element	Object contains the additional service details	Yes
2.2.1	Baggage	Array of baggage detail elements	Contains baggage details	Yes
2.2.1.1	BaggageId	String	Baggage Id	No
2.2.1.2	Weight	String	Baggage weight in kilos	No
2.2.1.3	Currency	String	Currency code	No
2.2.1.4	Price	Decimal	Amount charged for the baggage	No
2.2.1.5	Origin	String	Origin city	No
2.2.1.6	Destination	String	Destination city	No
2.2.1.7	PaxId	String	Passenger Id	No
2.3	Result ID	String	Result ID	Yes
2.4	Is Refundable	Boolean	Is the fare is refundable or not	Yes
2.5	Fares	List of fare elements	Contains fare details	Yes
2.5.1	BaseFare	Decimal	Base fare of the booking	Yes
2.5.2	Tax	Decimal	Tax of the booking	Yes
2.5.3	Currency	String	Currency code	Yes
2.5.4	OtherCharges	Decimal	Some additional charges	Yes
2.5.5	Discount	Decimal	Discount amount of the booking	Yes
2.5.6	AgentMarkUp	Decimal	Agent Markup amount	Yes

2.5.7	PaxType	Enumeration	Passenger Type. Possible values 1. <i>Adult</i> 2. <i>Child</i> 3. <i>Infant</i>	Yes
2.5.8	PassengerCount	Integer	Number of Passenger	Yes
2.5.9	ServiceFee	Decimal	Service fee if applicable	Yes
2.6	Discount	Decimal	Discount amount of the booking	Yes
2.7	Validatingcarrier	String	Validating carrier	Yes
2.8	LastTicketDate	Date Time [Nullable]	Last Ticket Date	Yes
2.9	Segments	List of segment elements	Contains details about flight segments	Yes
2.9.1	TripIndicator	Enumeration	Trip indicator. Possible values are 1. <i>Outbound</i> 2. <i>Inbound</i>	Yes
2.9.2	Origin	Element	Contains departure details	Yes
2.9.2.1	Airport	Element	Contains departure airport details	Yes
2.9.2.1.1	AirportCode	String	IATA code for origin Airport	Yes
2.9.2.1.2	AirportName	String	Name of the origin airport	Yes
2.9.2.1.3	Terminal	String	Terminal Number	Yes
2.9.2.1.4	CityCode	String	IATA code for origin city	Yes
2.9.2.1.5	CityName	String	Name of the origin city	Yes
2.9.2.1.6	CountryCode	String	IATA code for Origin country	Yes
2.9.2.1.7	CountryName	String	Name of the origin country	Yes
2.9.2.2	DepTime	Date Time	Departure date time	Yes
2.9.3	Destination	Element	Contains the details destination	Yes
2.9.3.1	Airport	Element	Contains destination airport details	Yes
2.9.3.1.1	AirportCode	String	IATA code for destination Airport	Yes
2.9.3.1.2	AirportName	String	Name of the destination airport	Yes
2.9.3.1.3	Terminal	String	Terminal Number	Yes
2.9.3.1.4	CityCode	String	IATA code for destination city	Yes
2.9.3.1.5	CityName	String	Name of the destination city	Yes
2.9.3.1.6	CountryCode	String	IATA code for destination country	Yes
2.9.3.1.7	CountryName	String	Name of the destination country	Yes
2.9.3.2	ArrTime	Date Time	Arrival date time	Yes
2.9.4	Airline	Element	Element containing the carrier details	Yes

2.9.4.1	AirlineCode	String	IATA code for airline	Yes
2.9.4.2	AirlineName	String	Name of the airline	Yes
2.9.4.3	FlightNumber	String	Flight number	Yes
2.9.4.4	BookingClass	String	Reservation booking designator Cabin class	Yes
2.9.4.5	CabinClass	String	Cabin class. Expected values are <i>1.Economy</i> <i>2.PremiumEconomy</i> <i>3.Business</i> <i>4.First</i>	Yes
2.9.4.6	OperatingCarrier	String	Operating carrier	Yes
2.9.4	Baggage	Integer	Baggage	Yes
2.9.5	JourneyDuration	String	Total Journey duration in minutes	Yes
2.9.6	StopQuantity	String	Number of stops	Yes
2.9.7	Equipment	String	Equipment description	Yes
2.10	TotalFare	Decimal	Total fare	Yes
2.11	TotalFareWithAgentMarkup	Decimal	TotalFareWithAgentMarkup	Yes
2.12	Currency	String	Currency	Yes
2.13	Availability	Integer	Number of available seats	Yes
2.14	FareType	Enumeration	Fare type. Possible values are 1. NET 2. InstantTicketing	Yes
2.15	isMiniRulesAvailable	Boolean	Tells whether minirules are available or not for the itinerary	No
3	RePriceStatus	Enumeration	Price Status. Possible values 1. <i>FareUnavailable</i> 2. <i>PriceChange</i> 3. <i>NoPriceChange</i> 4. <i>ItineraryChange</i>	No
4	AppliedPromotion	Element	Contains promotion details	No
4.1	PromotionCode	String	Promotion code	No
4.2	PromotionCurrency	String	Currency code	No
4.3	AmountApplied	Decimal	Amount applied	No
4.4	PromotionPercentage	Decimal	Promotion amount in percentage	No
4.5	PromotionAmount	Decimal	Total promotion amount	No
4.6	MaxDiscountLimit	Decimal	Maximum discount limit	No
4.7	IsExpired	Boolean	Whether promotion expired or not	No
4.8	IsLimitExceeds	Boolean	Tells whether promotion amount exceeds the limit	No

4.9	IsInvalidcode	Boolean	Tells the promotion is valid or not	No
5	Error	Element	Element contains error details	No
5.1	Errorcode	Enumeration	Code responding to the error. Refer Annexure	No
5.2	Errormessage	String	Contains error description	No

Sample Response:

```
{
  "SearchId": "1b123aae-dd05-48e7-b12a-b14436595c50",
  "Results": [
    {
      "PassportMadatory": false,
      "ExtraServices": {
        "Baggage": [

        ]
      },
      "ResultID": "e80ee235-3a31-4435-a308-4bc8cdd50ec7",
      "IsRefundable": true,
      "Fares": [
        {
          "BaseFare": 14697.67,
          "Tax": 2068.20,
          "Currency": "BDT",
          "OtherCharges": 716.85,
          "Discount": 0.0,
          "PaxType": 1,
          "PassengerCount": 1,
          "ServiceFee": 0.00
        }
      ],
      "Discount": 0.0,
      "Validatingcarrier": "G8",
      "LastTicketDate": null,
      "segments": [
        {
          "TripIndicator": 1,
          "Origin": {
            "Airport": {
              "AirportCode": "DEL",
              "AirportName": "Indira Gandhi Intl",
              "Terminal": "2",
              "CityCode": "DEL",
              "CityName": "New Delhi",
              "CountryCode": "IN",
              "CountryName": "India"
            },
            "DepTime": "2018-12-04T20:55:00"
          },
        }
      ],
    }
  ],
}
```

```

"Destination": {
  "Airport": {
    "AirportCode": "CCU",
    "AirportName": "Netaji Subhas Chandra",
    "Terminal": "",
    "CityCode": "CCU",
    "CityName": "Kolkata",
    "CountryCode": "IN",
    "CountryName": "India"
  },
  "ArrTime": "2018-12-04T23:00:00"
},
"Airline": {
  "AirlineCode": "G8",
  "AirlineName": "GoAir",
  "FlightNumber": "105",
  "BookingClass": "A",
  "CabinClass": "Y",
  "OperatingCarrier": "G8"
},
"Baggage": "15 Kg",
"JourneyDuration": "125",
"StopQuantity": "0"
}
],
"TotalFare": 17483.00,
"Currency": "BDT",
"Availabilty": 0
}
],
"Error": null,
"RePriceStatus": 1
}

```

5.5. Air Book:

Air book API can be used for holding the booking for non LCC airline/Public fare. For LCC/Web fare/Private fare airline booking API directly generates the ticket.

It is mandatory that the interested itinerary should go through AirPrice and AirPreBook APIs prior to AirBook.

URL	<RootUrl>/AirBook
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	SearchId	String	Search id received in AirSearch response	Yes
2	Resultid	String	Result id of the interested itinerary, also received in AirSearch response	Yes
3	Passengers	List of Passenger elements	Contains details of passenger	Yes
3.1	Title	String	Salutation. Expected values 4. <i>Mr</i> 5. <i>Ms</i> 6. <i>Mrs</i>	Yes
3.2	FirstName	String	Passenger's first name	Yes
3.3	LastName	String	Passenger's last name	Yes
3.4	PaxType	Enumeration	Type of passenger. Expected values 1. <i>Adult</i> 2. <i>Child</i> 3. <i>Infant</i>	Yes
3.5	DateOfBirth	String	Passenger's date of birth	Yes
3.6	Gender	Enumeration	Gender. Possible inputs 3. <i>Male</i> 4. <i>Female</i>	Yes
3.7	PassportNumber	String	Passport number	No
3.8	PassportExpiryDate	String	Passport expiry date	No
3.9	PassportNationality	String	Passport nationality	No
3.10	Address1	String	Address of the passenger	Yes
3.11	Address2	String	Additional address field	No
3.12	CountryCode	String	Country code	Yes
3.13	Nationality	String	Passenger's nationality	Yes
3.14	ContactNumber	String	Contact number	Yes
3.15	Email	String	Email address	Yes
3.16	IsLeadPassenger	Boolean	Whether the passenger is lead passenger	Yes
3.17	FFAirline	String	Frequent flyer airline	No
3.18	FFNumber	String	Frequent flyer number	No
3.19	Baggage	Element carrying baggage information		No
3.19.1	BaggageID	String	Baggage id	No

Sample Request:

{

```

"SearchID": "c6e5ae65-bff5-4c34-b047-eeaf974658ca",
"ResultID": "2fbc026f-74b5-443a-a47d-e623de4ce8b4",
"Passengers": [
  {
    "Title": "Mr",
    "FirstName": "test",
    "LastName": "hal",
    "PaxType": "Adult",
    "DateOfBirth": "1975-10-06",
    "Gender": "Male",
    "Address1": "test",
    "CountryCode": "BD",
    "Nationality": "BD",
    "ContactNumber": "577989789789",
    "Email": "test@m.com",
    "IsLeadPassenger": true,
    "PassportNumber": "HJFHFJKHFH6876",
    "PassportExpiryDate": "2020-10-12",
    "PassportNationality": "BD"
  }
]
}

```

Response:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Flyhub's booking reference number	Yes
2	Results	List of flight results	Contains the flight details	Yes
2.1	Extra services	Element	Object contains the additional service details	Yes
2.1.1	Baggage	Array of baggage detail elements	Contains baggage details	Yes
2.1.1.1	BaggageId	String	Baggage Id	No
2.1.1.2	Weight	String	Baggage weight in kilos	No
2.1.1.3	Currency	String	Currency code	No
2.1.1.4	Price	Decimal	Amount charged for the baggage	No
2.1.1.5	Origin	String	Origin city	No
2.1.1.6	Destination	String	Destination city	No
2.1.1.7	PaxId	String	Passenger Id	No
2.2	Result ID	String	Result ID	Yes
2.3	Is Refundable	Boolean	Is the fare is refundable or not	Yes
2.4	Fares	List of fare elements	Contains fare details	Yes
2.4.1	BaseFare	Decimal	Base fare of the booking	Yes
2.4.2	Tax	Decimal	Tax of the booking	Yes

2.4.3	Currency	String	Currency code	Yes
2.4.4	OtherCharges	Decimal	Some additional charges	Yes
2.4.5	Discount	Decimal	Discount amount of the booking	Yes
2.4.6	AgentMarkUp	Decimal	Agent Markup amount	Yes
2.4.7	PaxType	Enumeration	Passenger Type. Possible values 4. <i>Adult</i> 5. <i>Child</i> 6. <i>Infant</i>	Yes
2.4.8	PassengerCount	Integer	Number of Passenger	Yes
2.4.9	ServiceFee	Decimal	Service fee if applicable	Yes
2.5	Discount	Decimal	Discount amount of the booking	Yes
2.6	Validatingcarrier	String	Validating carrier	Yes
2.7	LastTicketDate	Date Time [Nullable]	Last Ticket Date	Yes
2.8	Segments	List of segment elements	Contains details about flight segments	Yes
2.8.1	TripIndicator	Enumeration	Trip indicator. Possible values are 3. <i>Outbound</i> 4. <i>Inbound</i>	Yes
2.8.2	Origin	Element	Contains departure details	Yes
2.8.2.1	Airport	Element	Contains departure airport details	Yes
2.8.2.1.1	AirportCode	String	IATA code for origin Airport	Yes
2.8.2.1.2	AirportName	String	Name of the origin airport	Yes
2.8.2.1.3	Terminal	String	Terminal Number	Yes
2.8.2.1.4	CityCode	String	IATA code for origin city	Yes
2.8.2.1.5	CityName	String	Name of the origin city	Yes
2.8.2.1.6	CountryCode	String	IATA code for Origin country	Yes
2.8.2.1.7	CountryName	String	Name of the origin country	Yes
2.8.2.2	DepTime	Date Time	Departure date time	Yes
2.8.3	Destination	Element	Contains the details destination	Yes
2.8.3.1	Airport	Element	Contains destination airport details	Yes
2.8.3.1.1	AirportCode	String	IATA code for destination Airport	Yes
2.8.3.1.2	AirportName	String	Name of the destination airport	Yes
2.8.3.1.3	Terminal	String	Terminal Number	Yes
2.8.3.1.4	CityCode	String	IATA code for destination city	Yes
2.8.3.1.5	CityName	String	Name of the destination city	Yes
2.8.3.1.6	CountryCode	String	IATA code for destination country	Yes

2.8.3.1.7	CountryName	String	Name of the destination country	Yes
2.8.3.2	ArrTime	Date Time	Arrival date time	Yes
2.8.4	Airline	Element	Element containing the carrier details	Yes
2.8.4.1	AirlineCode	String	IATA code for airline	Yes
2.8.4.2	AirlineName	String	Name of the airline	Yes
2.8.4.3	FlightNumber	String	Flight number	Yes
2.8.4.4	BookingClass	String	Reservation booking designatorCabin class	Yes
2.8.4.5	CabinClass	String	Cabin class. Expected values are <i>1.Economy</i> <i>2.PremiumEconomy</i> <i>3.Business</i> <i>4.First</i>	Yes
2.8.4.6	OperatingCarrier	String	Operating carrier	Yes
2.8.4	Baggage	Integer	Baggage	Yes
2.8.5	JourneyDuration	String	Total Journey duration in minutes	Yes
2.8.6	StopQuantity	String	Number of stops	Yes
2.8.7	Equipment	String	Equipment description	Yes
2.9	TotalFare	Decimal	Total fare	Yes
2.10	TotalFareWithAgentMarkup	Decimal	TotalFareWithAgentMarkup	Yes
2.11	Currency	String	Currency	Yes
2.12	Availabilty	Integer	Number of available seats	Yes
2.13	FareType	Enumeration	Fare type. Possible values are 3. NET 4. InstantTicketing	Yes
2.15	isMiniRulesAvailable	Boolean	Tells whether minirules are available or not for the itinerary	No
3	Passengers	List of Passenger elements	Contains the details of passengers	Yes
3.1	PassengerIndex	String	Passenger index	Yes
3.2	Title	String	Salutation. Expected values <i>7. Mr</i> <i>8. Ms</i> <i>9. Mrs</i>	Yes
3.3	FirstName	String	Passenger's first name	Yes
3.4	LastName	String	Passenger's last name	Yes
3.5	PaxType	Enumeration	Type of passenger. Expected values <i>1. Adult</i> <i>2. Child</i> <i>3. Infant</i>	Yes

3.6	DateOfBirth	String	Passenger's date of birth	Yes
3.7	Gender	Enumeration	Gender. Possible inputs 5. Male 6. Female	Yes
3.8	PassportNumber	String	Passport number	No
3.9	PassportExpiryDate	String	Passport expiry date	No
3.10	PassportNationality	String	Passport nationality	No
3.11	Address1	String	Address of the passenger	Yes
3.12	Address2	String	Additional address field	No
3.13	CountryCode	String	Country code	Yes
3.14	Nationality	String	Passenger's nationality	Yes
3.15	ContactNumber	String	Contact number	Yes
3.16	Email	String	Email address	Yes
3.17	IsLeadPassenger	Boolean	Whether the passenger is lead passenger	Yes
3.18	FFAirline	String	Frequent flyer airline	No
3.19	FFNumber	String	Frequent flyer number	No
3.20	Ticket	Element	Contains passenger ticket information	Yes
3.20.1	TicketNo	String	Ticket number	Yes
4	BookingStatus	Enumeration	Booking status. Refer Annexure for booking status	Yes
5	AppliedPromotion	Element	Element contains applied promotion details	No
5.1	PromotionCode	String	Promotion code applied	No
5.2	PromotionCurrency	String	Currency code	No
5.3	AmountApplied	Decimal	Promotion amount applied	No
5.4	PromotionAmount	Decimal	Total Promotion amount	No
5.5	PromotionPercentage	Decimal	Promotion percentage	No
5.6	MaxDiscountLimit	Decimal	Discount limit	No
5.7	IsExpired	Boolean	Tells whether the promotion expired	No
5.8	IsLimitExceeds	Boolean	Tells whether the promotion max limit exceeds	No
5.9	IsInvalidCode	Boolean	Tells whether promotion code is valid	No
6	Error	Element	Element contains error details	Yes
6.1	ErrorCode	Enumeration	Check annexure for details	No
6.2	ErrorMessage	String	Error message description	No

Sample Response:

```
{
```



```

"BookingID": "FHB201013790",
"Results": [
  {
    "ResultID": "18f781ce-0c27-468a-8fe0-d0f2ad500c6a",
    "IsRefundable": false,
    "Fares": [
      {
        "BaseFare": 11196.97,
        "Tax": 11332.41,
        "Currency": "BDT",
        "OtherCharges": 159.30,
        "Discount": 0.00,
        "PaxType": 1,
        "PassengerCount": 1,
        "ServiceFee": 0.00
      }
    ],
    "Discount": 0.00,
    "Validatingcarrier": "G9",
    "LastTicketDate": "2018-10-08T18:00:40",
    "segments": [
      {
        "TripIndicator": 1,
        "Origin": {
          "Airport": {
            "AirportCode": "DAC",
            "AirportName": "Shahjalal intl. Airport",
            "Terminal": "X",
            "CityCode": "DAC",
            "CityName": "Dhaka",
            "CountryCode": "BD",
            "CountryName": "Bangladesh"
          },
          "DepTime": "2019-01-04T19:55:00"
        },
        "Destination": {
          "Airport": {
            "AirportCode": "SHJ",
            "AirportName": "Sharjah",
            "Terminal": "X",
            "CityCode": "SHJ",
            "CityName": "Sharjah",
            "CountryCode": "AE",
            "CountryName": "United Arab Emirates"
          },
          "ArrTime": "2019-01-04T23:25:00"
        },
        "Airline": {
          "AirlineCode": "G9",
          "AirlineName": "Air Arabia",

```

```

    "FlightNumber": "512",
    "BookingClass": "P",
    "CabinClass": "Y",
    "OperatingCarrier": "G9"
  },
  "Baggage": "20 Kg",
  "JourneyDuration": "330",
  "StopQuantity": "0",
  "AirlinePNR": "90526557"
}
],
"TotalFare": 22689.00,
"Currency": "BDT",
"Availabilty": 0
}
],
"Passengers": [
  {
    "Title": "Mr",
    "FirstName": "test",
    "LastName": "hal",
    "PaxType": 1,
    "DateOfBirth": "1975-10-06T00:00:00",
    "Gender": 2,
    "PassportNumber": "HJFHFJKHFH6876",
    "PassportExpiryDate": "2020-10-12T00:00:00",
    "PassportNationality": "BD",
    "Address1": "test",
    "Address2": null,
    "CountryCode": "BD",
    "Nationality": "BD",
    "ContactNumber": "577989789789",
    "Email": "test@m.com",
    "FFAirline": null,
    "FFNumber": null,
    "Ticket": [
      {
        "TicketNo": "7885142376627776"
      }
    ]
  }
],
"BookingStatus": 4,
"Error": null
}

```

5.6. AirRetrieve:

This API is to retrieve the booking information using booking reference. Current version allows the user to retrieve booking details using booking reference received in AirBook api.

URL	<RootUrl>/AirRetrieve
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Booking Id returned in AirBook API	Yes

Sample Request:

```
{
  "BookingID":"FHB201013790"
}
```

Response:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Flyhub's booking reference number	Yes
2	Results	List of flight results	Contains the flight details	Yes
2.1	Extra services	Element	Object contains the additional service details	Yes
2.1.1	Baggage	Array of baggage detail elements	Contains baggage details	Yes
2.1.1.1	BaggageId	String	Baggage Id	No
2.1.1.2	Weight	String	Baggage weight in kilos	No
2.1.1.3	Currency	String	Currency code	No
2.1.1.4	Price	Decimal	Amount charged for the baggage	No
2.1.1.5	Origin	String	Origin city	No
2.1.1.6	Destination	String	Destination city	No
2.1.1.7	PaxId	String	Passenger Id	No
2.2	Result ID	String	Result ID	Yes
2.3	Is Refundable	Boolean	Is the fare is refundable or not	Yes
2.4	Fares	List of fare elements	Contains fare details	Yes
2.4.1	BaseFare	Decimal	Base fare of the booking	Yes
2.4.2	Tax	Decimal	Tax of the booking	Yes
2.4.3	Currency	String	Currency code	Yes
2.4.4	OtherCharges	Decimal	Some additional charges	Yes
2.4.5	Discount	Decimal	Discount amount of the booking	Yes

2.4.6	AgentMarkUp	Decimal	Agent Markup amount	Yes
2.4.7	PaxType	Enumeration	Passenger Type. Possible values 7. <i>Adult</i> 8. <i>Child</i> 9. <i>Infant</i>	Yes
2.4.8	PassengerCount	Integer	Number of Passenger	Yes
2.4.9	ServiceFee	Decimal	Service fee if applicable	Yes
2.5	Discount	Decimal	Discount amount of the booking	Yes
2.6	Validatingcarrier	String	Validating carrier	Yes
2.7	LastTicketDate	DateTime[Nullable]	Last Ticket Date	Yes
2.8	Segments	List of segment elements	Contains details about flight segments	Yes
2.8.1	TripIndicator	Enumeration	Trip indicator. Possible values are 1. <i>Outbound</i> 2. <i>Inbound</i>	Yes
2.8.2	Origin	Element	Contains departure details	Yes
2.8.2.1	Airport	Element	Contains departure airport details	Yes
2.8.2.1.1	AirportCode	String	IATA code for origin Airport	Yes
2.8.2.1.2	AirportName	String	Name of the origin airport	Yes
2.8.2.1.3	Terminal	String	Terminal Number	Yes
2.8.2.1.4	CityCode	String	IATA code for origin city	Yes
2.8.2.1.5	CityName	String	Name of the origin city	Yes
2.8.2.1.6	CountryCode	String	IATA code for Origin country	Yes
2.8.2.1.7	CountryName	String	Name of the origin country	Yes
2.8.2.2	DepTime	Date Time	Departure date time	Yes
2.8.3	Destination	Element	Contains the details destination	Yes
2.8.3.1	Airport	Element	Contains destination airport details	Yes
2.8.3.1.1	AirportCode	String	IATA code for destination Airport	Yes
2.8.3.1.2	AirportName	String	Name of the destination airport	Yes
2.8.3.1.3	Terminal	String	Terminal Number	Yes
2.8.3.1.4	CityCode	String	IATA code for destination city	Yes
2.8.3.1.5	CityName	String	Name of the destination city	Yes
2.8.3.1.6	CountryCode	String	IATA code for destination country	Yes
2.8.3.1.7	CountryName	String	Name of the destination country	Yes
2.8.3.2	ArrTime	Date Time	Arrival date time	Yes
2.8.4	Airline	Element	Element containing the carrier	Yes

			details	
2.8.4.1	AirlineCode	String	IATA code for airline	Yes
2.8.4.2	AirlineName	String	Name of the airline	Yes
2.8.4.3	FlightNumber	String	Flight number	Yes
2.8.4.4	BookingClass	String	Reservation booking designatorCabin class	Yes
2.8.4.5	CabinClass	String	Cabin class. Expected values are <i>1.Economy</i> <i>2.PremiumEconomy</i> <i>3.Business</i> <i>4.First</i>	Yes
2.8.4.6	OperatingCarrier	String	Operating carrier	Yes
2.8.4	Baggage	Integer	Baggage	Yes
2.8.5	JourneyDuration	String	Total Journey duration in minutes	Yes
2.8.6	StopQuantity	String	Number of stops	Yes
2.8.7	Equipment	String	Equipment description	Yes
2.9	TotalFare	Decimal	Total fare	Yes
2.10	TotalFareWithAgentMarkup	Decimal	TotalFareWithAgentMarkup	Yes
2.11	Currency	String	Currency	Yes
2.12	Availabilty	Integer	Number of available seats	Yes
2.13	FareType	Enumeration	Fare type. Possible values are 1. NET 2. InstantTicketing	Yes
2.15	isMiniRulesAvailable	Boolean	Tells whether minirules are available or not for the itinerary	No
3	Passengers	List of Passenger elements	Contains the details of passengers	Yes
3.1	PassengerIndex	String	Passenger index	Yes
3.2	Title	String	Salutation. Expected values <i>1. Mr</i> <i>2. Ms</i> <i>3. Mrs</i>	Yes
3.3	FirstName	String	Passenger's first name	Yes
3.4	LastName	String	Passenger's last name	Yes
3.5	PaxType	Enumeration	Type of passenger. Expected values <i>1. Adult</i> <i>2. Child</i> <i>3. Infant</i>	Yes
3.6	DateOfBirth	String	Passenger's date of birth	Yes
3.7	Gender	Enumeration	Gender. Possible inputs 1. Male 2. Female	Yes

3.8	PassportNumber	String	Passport number	No
3.9	PassportExpiryDate	String	Passport expiry date	No
3.10	PassportNationality	String	Passport nationality	No
3.11	Address1	String	Address of the passenger	Yes
3.12	Address2	String	Additional address field	No
3.13	CountryCode	String	Country code	Yes
3.14	Nationality	String	Passenger's nationality	Yes
3.15	ContactNumber	String	Contact number	Yes
3.16	Email	String	Email address	Yes
3.17	IsLeadPassenger	Boolean	Whether the passenger is lead passenger	Yes
3.18	FFAirline	String	Frequent flyer airline	No
3.19	FFNumber	String	Frequent flyer number	No
3.20	Ticket	Element	Contains passenger ticket information	Yes
3.20.1	TicketNo	String	Ticket number	Yes
4	BookingStatus	Enumeration	Booking status. Refer Annexure for booking status	Yes
5	Error	Element	Element contains error details	Yes
5.1	ErrorCode	Enumeration	Check annexure for details	No
5.2	ErrorMessage	String	Error message description	No

Sample Response:

```

{
  "BookingID": "FHB201013790",
  "Results": [
    {
      "ResultID": "18f781ce-0c27-468a-8fe0-d0f2ad500c6a",
      "IsRefundable": false,
      "Fares": [
        {
          "BaseFare": 11196.97,
          "Tax": 11332.41,
          "Currency": "BDT",
          "OtherCharges": 159.30,
          "Discount": 0.00,
          "PaxType": 1,
          "PassengerCount": 1,
          "ServiceFee": 0.00
        }
      ],
      "Discount": 0.00,
      "Validatingcarrier": "G9",
      "LastTicketDate": "2018-10-08T18:00:40",
      "segments": [
        {
          "TripIndicator": 1,

```

```

"Origin": {
  "Airport": {
    "AirportCode": "DAC",
    "AirportName": "Shahjalal intl. Airport",
    "Terminal": "X",
    "CityCode": "DAC",
    "CityName": "Dhaka",
    "CountryCode": "BD",
    "CountryName": "Bangladesh"
  },
  "DepTime": "2019-01-04T19:55:00"
},
"Destination": {
  "Airport": {
    "AirportCode": "SHJ",
    "AirportName": "Sharjah",
    "Terminal": "X",
    "CityCode": "SHJ",
    "CityName": "Sharjah",
    "CountryCode": "AE",
    "CountryName": "United Arab Emirates"
  },
  "ArrTime": "2019-01-04T23:25:00"
},
"Airline": {
  "AirlineCode": "G9",
  "AirlineName": "Air Arabia",
  "FlightNumber": "512",
  "BookingClass": "P",
  "CabinClass": "Y",
  "OperatingCarrier": "G9"
},
"Baggage": "20 Kg",
"JourneyDuration": "330",
"StopQuantity": "0",
"AirlinePNR": "90526557"
}
],
"TotalFare": 22689.00,
"Currency": "BDT",
"Availabilty": 0
}
],
"Passengers": [
{
  "Title": "MR",
  "FirstName": "TEST",
  "LastName": "HAL",
  "PaxType": 1,
  "DateOfBirth": "1975-10-06T00:00:00",

```

```

"Gender": 1,
"PassportNumber": "HJFHFJKHFFH6876",
"PassportExpiryDate": "2020-10-12T00:00:00",
"PassportNationality": null,
"Address1": "test",
"Address2": "",
"CountryCode": "BD",
"Nationality": null,
"ContactNumber": "577989789789",
"Email": "test@m.com",
"FFAirline": null,
"FFNumber": "",
"Ticket": [
  {
    "TicketNo": "7885142376627776"
  }
]
},
"BookingStatus": 4,
"Error": null
}

```

5.7. AirTicketing:

This method can be used for confirming the booked itinerary. AirTicketing can be called for non LCC airlines only. Once ticketing done the itinerary cannot be canceled using AirCancel API.

URL	<RootUrl>/AirTicketing
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Booking Id returned in AirBook API	Yes
2	IsAcceptedPriceChangeandIssueTicket	Boolean	“True” if the user is fine with price change, “False” if not	Yes

Sample Request:

```

{
  "BookingID": "FHB201013790",
  "IsAcceptedPriceChangeandIssueTicket": true
}

```


Response:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Flyhub's booking reference number	Yes
2	Results	List of flight results	Contains the flight details	Yes
2.1	Extra services	Element	Object contains the additional service details	Yes
2.1.1	Baggage	Array of baggage detail elements	Contains baggage details	Yes
2.1.1.1	BaggageId	String	Baggage Id	No
2.1.1.2	Weight	String	Baggage weight in kilos	No
2.1.1.3	Currency	String	Currency code	No
2.1.1.4	Price	Decimal	Amount charged for the baggage	No
2.1.1.5	Origin	String	Origin city	No
2.1.1.6	Destination	String	Destination city	No
2.1.1.7	PaxId	String	Passenger Id	No
2.2	Result ID	String	Result ID	Yes
2.3	Is Refundable	Boolean	Is the fare is refundable or not	Yes
2.4	Fares	List of fare elements	Contains fare details	Yes
2.4.1	BaseFare	Decimal	Base fare of the booking	Yes
2.4.2	Tax	Decimal	Tax of the booking	Yes
2.4.3	Currency	String	Currency code	Yes
2.4.4	OtherCharges	Decimal	Some additional charges	Yes
2.4.5	Discount	Decimal	Discount amount of the booking	Yes
2.4.6	AgentMarkUp	Decimal	Agent Markup amount	Yes
2.4.7	PaxType	Enumeration	Passenger Type. Possible values <i>10. Adult</i> <i>11. Child</i> <i>12. Infant</i>	Yes
2.4.8	PassengerCount	Integer	Number of Passenger	Yes
2.4.9	ServiceFee	Decimal	Service fee if applicable	Yes
2.5	Discount	Decimal	Discount amount of the booking	Yes
2.6	Validatingcarrier	String	Validating carrier	Yes
2.7	LastTicketDate	DateTime[Nullable]	Last Ticket Date	Yes
2.8	Segments	List of segment elements	Contains details about flight segments	Yes
2.8.1	TripIndicator	Enumeration	Trip indicator. Possible values are	Yes

			<ol style="list-style-type: none"> 1. Outbound 2. Inbound 	
2.8.2	Origin	Element	Contains departure details	Yes
2.8.2.1	Airport	Element	Contains departure airport details	Yes
2.8.2.1.1	AirportCode	String	IATA code for origin Airport	Yes
2.8.2.1.2	AirportName	String	Name of the origin airport	Yes
2.8.2.1.3	Terminal	String	Terminal Number	Yes
2.8.2.1.4	CityCode	String	IATA code for origin city	Yes
2.8.2.1.5	CityName	String	Name of the origin city	Yes
2.8.2.1.6	CountryCode	String	IATA code for Origin country	Yes
2.8.2.1.7	CountryName	String	Name of the origin country	Yes
2.8.2.2	DepTime	Date Time	Departure date time	Yes
2.8.3	Destination	Element	Contains the details destination	Yes
2.8.3.1	Airport	Element	Contains destination airport details	Yes
2.8.3.1.1	AirportCode	String	IATA code for destination Airport	Yes
2.8.3.1.2	AirportName	String	Name of the destination airport	Yes
2.8.3.1.3	Terminal	String	Terminal Number	Yes
2.8.3.1.4	CityCode	String	IATA code for destination city	Yes
2.8.3.1.5	CityName	String	Name of the destination city	Yes
2.8.3.1.6	CountryCode	String	IATA code for destination country	Yes
2.8.3.1.7	CountryName	String	Name of the destination country	Yes
2.8.3.2	ArrTime	Date Time	Arrival date time	Yes
2.8.4	Airline	Element	Element containing the carrier details	Yes
2.8.4.1	AirlineCode	String	IATA code for airline	Yes
2.8.4.2	AirlineName	String	Name of the airline	Yes
2.8.4.3	FlightNumber	String	Flight number	Yes
2.8.4.4	BookingClass	String	Reservation booking designatorCabin class	Yes
2.8.4.5	CabinClass	String	Cabin class. Expected values are <ol style="list-style-type: none"> 1.Economy 2.PremiumEconomy 3.Business 4.First 	Yes
2.8.4.6	OperatingCarrier	String	Operating carrier	Yes
2.8.4	Baggage	Integer	Baggage	Yes
2.8.5	JourneyDuration	String	Total Journey duration in minutes	Yes
2.8.6	StopQuantity	String	Number of stops	Yes
2.8.7	Equipment	String	Equipment description	Yes

2.9	TotalFare	Decimal	Total fare	Yes
2.10	TotalFareWithAgentMarkup	Decimal	TotalFareWithAgentMarkup	Yes
2.11	Currency	String	Currency	Yes
2.12	Availabilty	Integer	Number of available seats	Yes
2.13	FareType	Enumeration	Fare type. Possible values are 1. NET 2. InstantTicketing	Yes
2.15	isMiniRulesAvailable	Boolean	Tells whether minirules are available or not for the itinerary	No
3	Passengers	List of Passenger elements	Contains the details of passengers	Yes
3.1	PassengerIndex	String	Passenger index	Yes
3.2	Title	String	Salutation. Expected values 1. Mr 2. Ms 3. Mrs	Yes
3.3	FirstName	String	Passenger's first name	Yes
3.4	LastName	String	Passenger's last name	Yes
3.5	PaxType	Enumeration	Type of passenger. Expected values 1. Adult 2. Child 3. Infant	Yes
3.6	DateOfBirth	String	Passenger's date of birth	Yes
3.7	Gender	Enumeration	Gender. Possible inputs 1. Male 2. Female	Yes
3.8	PassportNumber	String	Passport number	No
3.9	PassportExpiryDate	String	Passport expiry date	No
3.10	PassportNationality	String	Passport nationality	No
3.11	Address1	String	Address of the passenger	Yes
3.12	Address2	String	Additional address field	No
3.13	CountryCode	String	Country code	Yes
3.14	Nationality	String	Passenger's nationality	Yes
3.15	ContactNumber	String	Contact number	Yes
3.16	Email	String	Email address	Yes
3.17	IsLeadPassenger	Boolean	Whether the passenger is lead passenger	Yes
3.18	FFAirline	String	Frequent flyer airline	No
3.19	FFNumber	String	Frequent flyer number	No
3.20	Ticket	Element	Contains passenger ticket information	Yes
3.20.1	TicketNo	String	Ticket number	Yes

4	BookingStatus	Enumeration	Booking status. Refer Annexure for booking status	Yes
5	Error	Element	Element contains error details	Yes
5.1	ErrorCode	Enumeration	Check annexure for details	No
5.2	ErrorMessage	String	Error message description	No
6	IsPriceChanged	Boolean	Tells whether price has changed after booking held	Yes
7	Message	String	Message from the supplier/airline	No

Sample Response:

```

{
  "BookingID": "FHB201013790",
  "Results": [
    {
      "ExtraServices": null,
      "ResultID": "2ceca7d0-bdc2-4318-af92-1a75974ef612",
      "IsRefundable": true,
      "Fares": [
        {
          "BaseFare": 1564.29,
          "Tax": 419.84,
          "Currency": "INR",
          "OtherCharges": 0,
          "Discount": 0,
          "AgentMarkUp": 0,
          "PaxType": "Adult",
          "PassengerCount": 1,
          "ServiceFee": 0
        }
      ],
      "Discount": 0,
      "Validatingcarrier": "VQ",
      "LastTicketDate": "2020-10-13T20:03:51",
      "segments": [
        {
          "TripIndicator": "OutBound",
          "Origin": {
            "Airport": {
              "AirportCode": "CGP",
              "AirportName": "Shah Amanat International Airport",
              "Terminal": "",
              "CityCode": "CGP",
              "CityName": "Chittagong",
              "CountryCode": "BD",
              "CountryName": "Bangladesh"
            },
            "DepTime": "2020-10-20T17:15:00"
          },
          "Destination": {

```

```

    "Airport": {
      "AirportCode": "DAC",
      "AirportName": "Shahjalal intl. Airport",
      "Terminal": "",
      "CityCode": "DAC",
      "CityName": "Dhaka",
      "CountryCode": "BD",
      "CountryName": "Bangladesh"
    },
    "ArrTime": "2020-10-20T18:10:00"
  },
  "Airline": {
    "AirlineCode": "VQ",
    "AirlineName": "Novoair",
    "FlightNumber": "912",
    "BookingClass": "U",
    "CabinClass": "Economy",
    "OperatingCarrier": "VQ"
  },
  "Baggage": "Baggage :ADT-20KGS<br/>",
  "JourneyDuration": "55",
  "StopQuantity": "0",
  "Equipment": "ATR725",
  "AirlinePNR": "YTHIZL"
}
],
"TotalFare": 1984,
"TotalFareWithAgentMarkup": 1984,
"Currency": "INR",
"Availabilty": 0,
"FareType": "NET",
"isMiniRulesAvailable": false
}
],
"Passengers": [
  {
    "PaxIndex": null,
    "Title": "MR",
    "FirstName": "TEST",
    "LastName": "HAL",
    "PaxType": "Adult",
    "DateOfBirth": "1990-10-13T00:00:00",
    "Gender": "Male",
    "PassportNumber": "ABSd556",
    "PassportExpiryDate": "2021-10-13T09:34:22.173",
    "PassportNationality": null,
    "Address1": "Bangalore",
    "Address2": "Mangalore",
    "CountryCode": "IN",
    "Nationality": null,

```

```

"ContactNumber": "9000479869",
"Email": "test@flyhub.com",
"FFAirline": null,
"FFNumber": "",
"Ticket": [
  {
    "TicketNo": "8551012938844"
  }
],
"BookingStatus": "Ticketed",
"Error": null,
"IsPriceChanged": false,
"Message": ""
}

```

5.8. AirCancel:

Itineraries which are in booked status can be canceled. AirCancel API cannot be used for LCC carriers. For Non LCC carriers AirCancel is not allowed if the itinerary got ticketed.

URL	<RootUrl>/AirCancel
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Booking Id returned in AirBook API	Yes

Sample Request:

```

{
  "BookingID": "FHB201013791"
}

```

Response:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Flyhub's booking reference number	Yes
2	Results	List of flight results	Contains the flight details	Yes
2.1	Extra services	Element	Object contains the additional service details	Yes
2.1.1	Baggage	Array of baggage detail	Contains baggage details	Yes

		elements		
2.1.1.1	BaggageId	String	Baggage Id	No
2.1.1.2	Weight	String	Baggage weight in kilos	No
2.1.1.3	Currency	String	Currency code	No
2.1.1.4	Price	Decimal	Amount charged for the baggage	No
2.1.1.5	Origin	String	Origin city	No
2.1.1.6	Destination	String	Destination city	No
2.1.1.7	PaxId	String	Passenger Id	No
2.2	Result ID	String	Result ID	Yes
2.3	Is Refundable	Boolean	Is the fare is refundable or not	Yes
2.4	Fares	List of fare elements	Contains fare details	Yes
2.4.1	BaseFare	Decimal	Base fare of the booking	Yes
2.4.2	Tax	Decimal	Tax of the booking	Yes
2.4.3	Currency	String	Currency code	Yes
2.4.4	OtherCharges	Decimal	Some additional charges	Yes
2.4.5	Discount	Decimal	Discount amount of the booking	Yes
2.4.6	AgentMarkUp	Decimal	Agent Markup amount	Yes
2.4.7	PaxType	Enumeration	Passenger Type. Possible values <i>13. Adult</i> <i>14. Child</i> <i>15. Infant</i>	Yes
2.4.8	PassengerCount	Integer	Number of Passenger	Yes
2.4.9	ServiceFee	Decimal	Service fee if applicable	Yes
2.5	Discount	Decimal	Discount amount of the booking	Yes
2.6	Validatingcarrier	String	Validating carrier	Yes
2.7	LastTicketDate	DateTime[Nullable]	Last Ticket Date	Yes
2.8	Segments	List of segment elements	Contains details about flight segments	Yes
2.8.1	TripIndicator	Enumeration	Trip indicator. Possible values are <i>1. Outbound</i> <i>2. Inbound</i>	Yes
2.8.2	Origin	Element	Contains departure details	Yes
2.8.2.1	Airport	Element	Contains departure airport details	Yes
2.8.2.1.1	AirportCode	String	IATA code for origin Airport	Yes
2.8.2.1.2	AirportName	String	Name of the origin airport	Yes
2.8.2.1.3	Terminal	String	Terminal Number	Yes
2.8.2.1.4	CityCode	String	IATA code for origin city	Yes
2.8.2.1.5	CityName	String	Name of the origin city	Yes

2.8.2.1.6	CountryCode	String	IATA code for Origin country	Yes
2.8.2.1.7	CountryName	String	Name of the origin country	Yes
2.8.2.2	DepTime	Date Time	Departure date time	Yes
2.8.3	Destination	Element	Contains the details destination	Yes
2.8.3.1	Airport	Element	Contains destination airport details	Yes
2.8.3.1.1	AirportCode	String	IATA code for destination Airport	Yes
2.8.3.1.2	AirportName	String	Name of the destination airport	Yes
2.8.3.1.3	Terminal	String	Terminal Number	Yes
2.8.3.1.4	CityCode	String	IATA code for destination city	Yes
2.8.3.1.5	CityName	String	Name of the destination city	Yes
2.8.3.1.6	CountryCode	String	IATA code for destination country	Yes
2.8.3.1.7	CountryName	String	Name of the destination country	Yes
2.8.3.2	ArrTime	Date Time	Arrival date time	Yes
2.8.4	Airline	Element	Element containing the carrier details	Yes
2.8.4.1	AirlineCode	String	IATA code for airline	Yes
2.8.4.2	AirlineName	String	Name of the airline	Yes
2.8.4.3	FlightNumber	String	Flight number	Yes
2.8.4.4	BookingClass	String	Reservation booking designatorCabin class	Yes
2.8.4.5	CabinClass	String	Cabin class. Expected values are <i>1.Economy</i> <i>2.PremiumEconomy</i> <i>3.Business</i> <i>4.First</i>	Yes
2.8.4.6	OperatingCarrier	String	Operating carrier	Yes
2.8.4	Baggage	Integer	Baggage	Yes
2.8.5	JourneyDuration	String	Total Journey duration in minutes	Yes
2.8.6	StopQuantity	String	Number of stops	Yes
2.8.7	Equipment	String	Equipment description	Yes
2.9	TotalFare	Decimal	Total fare	Yes
2.10	TotalFareWithAgentMarkup	Decimal	TotalFareWithAgentMarkup	Yes
2.11	Currency	String	Currency	Yes
2.12	Availabilty	Integer	Number of available seats	Yes
2.13	FareType	Enumeration	Fare type. Possible values are 1. NET 2. InstantTicketing	Yes
2.15	isMiniRulesAvailable	Boolean	Tells whether minirules are available or not for the	No

			itinerary	
3	Passengers	List of Passenger elements	Contains the details of passengers	Yes
3.1	PassengerIndex	String	Passenger index	Yes
3.2	Title	String	Salutation. Expected values 1. <i>Mr</i> 2. <i>Ms</i> 3. <i>Mrs</i>	Yes
3.3	FirstName	String	Passenger's first name	Yes
3.4	LastName	String	Passenger's last name	Yes
3.5	PaxType	Enumeration	Type of passenger. Expected values 1. <i>Adult</i> 2. <i>Child</i> 3. <i>Infant</i>	Yes
3.6	DateOfBirth	String	Passenger's date of birth	Yes
3.7	Gender	Enumeration	Gender. Possible inputs 1. Male 2. Female	Yes
3.8	PassportNumber	String	Passport number	No
3.9	PassportExpiryDate	String	Passport expiry date	No
3.10	PassportNationality	String	Passport nationality	No
3.11	Address1	String	Address of the passenger	Yes
3.12	Address2	String	Additional address field	No
3.13	CountryCode	String	Country code	Yes
3.14	Nationality	String	Passenger's nationality	Yes
3.15	ContactNumber	String	Contact number	Yes
3.16	Email	String	Email address	Yes
3.17	IsLeadPassenger	Boolean	Whether the passenger is lead passenger	Yes
3.18	FFAirline	String	Frequent flyer airline	No
3.19	FFNumber	String	Frequent flyer number	No
3.20	Ticket	Element	Contains passenger ticket information	Yes
3.20.1	TicketNo	String	Ticket number	Yes
4	BookingStatus	Enumeration	Booking status. Refer Annexure for booking status	Yes
5	Error	Element	Element contains error details	Yes
5.1	ErrorCode	Enumeration	Check annexure for details	No
5.2	ErrorMessage	String	Error message description	No

Sample Response:

```
{
  "BookingID": "FHB201013791",
  "Results": [
```

```

{
  "ExtraServices": null,
  "ResultID": "684075cc-0a48-406f-aaf1-f808de9ab6dc",
  "IsRefundable": true,
  "Fares": [
    {
      "BaseFare": 1564.29,
      "Tax": 419.84,
      "Currency": "INR",
      "OtherCharges": 0,
      "Discount": 0,
      "AgentMarkUp": 0,
      "PaxType": "Adult",
      "PassengerCount": 1,
      "ServiceFee": 0
    }
  ],
  "Discount": 0,
  "Validatingcarrier": "VQ",
  "LastTicketDate": "2020-10-13T20:11:55",
  "segments": [
    {
      "TripIndicator": "OutBound",
      "Origin": {
        "Airport": {
          "AirportCode": "CGP",
          "AirportName": "Shah Amanat International Airport",
          "Terminal": "",
          "CityCode": "CGP",
          "CityName": "Chittagong",
          "CountryCode": "BD",
          "CountryName": "Bangladesh"
        },
        "DepTime": "2020-10-20T09:55:00"
      },
      "Destination": {
        "Airport": {
          "AirportCode": "DAC",
          "AirportName": "Shahjalal intl. Airport",
          "Terminal": "",
          "CityCode": "DAC",
          "CityName": "Dhaka",
          "CountryCode": "BD",
          "CountryName": "Bangladesh"
        },
        "ArrTime": "2020-10-20T10:50:00"
      },
      "Airline": {
        "AirlineCode": "VQ",
        "AirlineName": "Novoair",

```

```

    "FlightNumber": "904",
    "BookingClass": "U",
    "CabinClass": "Economy",
    "OperatingCarrier": "VQ"
  },
  "Baggage": "Baggage :ADT-20KGS<br/>",
  "JourneyDuration": "55",
  "StopQuantity": "0",
  "Equipment": "ATR725",
  "AirlinePNR": "WVSVUM"
}
],
"TotalFare": 1984,
"TotalFareWithAgentMarkup": 1984,
"Currency": "INR",
"Availability": 0,
"FareType": "NET",
"isMiniRulesAvailable": false
}
],
"Passengers": [
  {
    "PaxIndex": "P1155",
    "Title": "MR",
    "FirstName": "TEST",
    "LastName": "HAL",
    "PaxType": "Adult",
    "DateOfBirth": "1990-10-13T00:00:00",
    "Gender": "Male",
    "PassportNumber": "ABSd556",
    "PassportExpiryDate": "2021-10-13T09:34:22.173",
    "PassportNationality": null,
    "Address1": "Bangalore",
    "Address2": "Mangalore",
    "CountryCode": "IN",
    "Nationality": null,
    "ContactNumber": "9000478989",
    "Email": "test@flyhub.com",
    "FFAirline": null,
    "FFNumber": "",
    "Ticket": null
  }
],
"BookingStatus": "Cancelled",
"Error": null
}

```

5.9. AirPromotion:

Air promotion method is for getting available promotions for the interested itinerary.

URL	<RootUrl>/AirPromotion
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	SearchID	String	Search id received in AirSearch response	Yes
2	ResultID	String	Result id of the interested itinerary which was received in AirSearch response	Yes

Sample Request:

```
{
  "SearchID": "18f781ce-0c27-468a-8fe0-d0f2ad500c6a",
  "ResultID": "1b123aae-dd05-48e7-b12a-b14436595c50"
}
```

Response:

Level	Element	Type	Description	Mandatory
1	Promocodes	List of PromocodeD etails	Contains all available promocodes	Yes
1.1	Code	String	Contains promotion code	Yes
1.2	Currency	String	Currency code	Yes
1.3	MaxAmount	Decimal	Maximum discount amount	Yes
1.4	Description	String	Promotion code description	Yes
2	Error	Element	Element contains error details	Yes
2.1	ErrorCode	Enumeration	Check annexure for details	No
2.2	ErrorMessage	String	Error message description	No

Sample Response:

```
{
  "PromoCodes": [
    {
      "Code": "FS_1",
      "Currency": "BDT",
      "MaxAmount": 200,
      "Description": "Festive season offer"
    }
  ],
  "Error": null
}
```

5.10. AirCheckPromotion:

This API can be used to check the promotion code whether it is applicable for selected itinerary. If the promo code is valid it will applied to the selected itinerary. AirCheckPromotion should be called before AirPrice in order to avail the benefits of the promotion.

URL	<RootUrl>/AirCheckPromotion
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	Promocode	String	Promotion code	Yes
2	SearchID	String	Search id received in AirSearch response	Yes
3	ResultID	String	Result id of the interested itinerary which was received in AirSearch response	Yes

Sample Request:

```
{
  "Promocode": "FS_1",
  "SearchID": "18f781ce-0c27-468a-8fe0-d0f2ad500c6a",
  "ResultID": "1b123aae-dd05-48e7-b12a-b14436595c50"
}
```

Response:

Level	Element	Type	Description	Mandatory
1	PromotionDetails	Element	Contains promotion details	Yes
2	ApplyStatus	Enumeration	Tells the promotion apply status. Possible values <ol style="list-style-type: none"> 1. <i>Default[Error or Invalid]</i> 2. <i>Valid[Promotion code is valid]</i> 3. <i>NotAvailable[Promotion code not available]</i> 4. <i>Expired[Promotion code expired]</i> 5. <i>Exceeds[Promotion code exceeds usage limit]</i> 	Yes
3	Error	Element	Element contains error details	Yes
3.1	ErrorCode	Enumeration	Check annexure for details	No
3.2	ErrorMessage	String	Error message description	No

Sample Response:

```

{
  "PromotionDetails": {
    "PromotionCode": "string",
    "PromotionCurrency": "string",
    "AmountApplied": 0,
    "PromotionAmount": 0,
    "PromotionPercentage": 0,
    "MaxDiscountLimit": 0,
    "IsExpired": true,
    "IsLimitExceeds": true,
    "IsInvalidcode": true
  },
  "ApplyStatus": "Error or Invalid",
  "Error": {
    "ErrorCode": "Default",
    "ErrorMessage": "string"
  }
}

```

5.11. AirRemovePromotion:

This method is to remove applied promo code.

URL	<RootUrl>/AirRemovePromotion
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	Promocodes	List of Strings	Contains all promo codes which need to be removed	Yes

Sample Request:

```

{
  "Promocodes": [
    "FS_1",
    "FS_13",
  ]
}

```

Response:

Level	Element	Type	Description	Mandatory
1	Error	Element	Element contains error details	Yes
1.1	ErrorCode	Enumeration	Check annexure for details	No
1.2	ErrorMessage	String	Error message description	No

5.12. AirGetFlight:

This is an optional API can be used for retrieving details about the itinerary.

URL	<RootUrl>/AirDetails
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	SearchID	String	Search id received in AirSearch response	Yes
2	ResultID	String	Result id of the interested itinerary which was received in AirSearch response	Yes

Sample Request:

```
{
  "SearchID": "18f781ce-0c27-468a-8fe0-d0f2ad500c6a",
  "ResultID": "1b123aae-dd05-48e7-b12a-b14436595c50"
}
```

Response:

Level	Element	Type	Description	Mandatory
1	FlightDetails	Element	Object containing flight details	Yes
1.1	Segments	List of segment elements	Contains all flight segments and details	Yes
1.1.1	TripIndicator	Enumeration	Trip indicator. Possible values 1. <i>OutBound</i> 2. <i>InBound</i>	Yes
1.1.2	Origin	Element	Element contains details of origin	Yes
1.1.2.1	Airport	Element	Object containing details of airport	Yes
1.1.2.1.1	AirportCode	String	IATA code of the origin airport	Yes
1.1.2.1.2	AirportName	String	Name of the origin airport	No
1.1.2.1.3	Terminal	String	Terminal number	No
1.1.2.1.4	CityCode	String	IATA code of the origin city	Yes
1.1.2.1.5	CityName	String	Name of the city	Yes
1.1.2.1.6	CountryCode	String	IATA code of the origin country	Yes
1.1.2.1.7	CountryName	String	Name of the origin country	Yes
1.1.2.2	DepTime	DateTime	Departure date time	Yes
1.1.3	Destination	Element	Element contains details of destination	Yes
1.1.3.1	Airport	Element	Object containing details of airport	Yes
1.1.3.1.1	AirportCode	String	IATA code of the destination airport	Yes
1.1.3.1.2	AirportName	String	Name of the destination airport	No

1.1.3.1.3	Terminal	String	Terminal number	No
1.1.3.1.4	CityCode	String	IATA code of the destination city	Yes
1.1.3.1.5	CityName	String	Name of the city	Yes
1.1.3.1.6	CountryCode	String	IATA code of destination country	Yes
1.1.3.1.7	CountryName	String	Name of the destination country	Yes
1.1.3.2	ArrTime	DateTime	Arrival time	Yes
1.1.2	Airline	Element	Element contains airline details	
1.1.2.1	Airline Code	String	IATA code of the airline	Yes
1.1.2.2	AirlineName	String	Name of the carrier	Yes
1.1.2.3	FlightNumber	String	Flight number	Yes
1.1.2.4	BookingClass	String	Reservation Booking Designator	Yes
1.1.2.5	Cabinclass	String	Cabin class. Expected values are <i>1.Economy</i> <i>2.PremiumEconomy</i> <i>3.Business</i> <i>4.First</i>	Yes
1.1.2.6	Operating Carrier	String	Operating Carrier	Yes
1.1.3	Baggage	String	Baggage and its weight	Yes
1.1.4	JourneyDuration	String	Total journey Duration in minutes	Yes
1.1.5	StopQuantity	String	Number of stops. Eg 0,1,1+	Yes
1.1.6	Equipment	String	Equipment description	No
2	Error	Element	Element contains error details	Yes
2.1	ErrorCode	Enumeration	Check annexure for details	No
2.2	ErrorMessage	String	Error message description	No

Sample Response:

```

{
  "FlightDetails": {
    "segments": [
      {
        "TripIndicator": "OutBound",
        "Origin": {
          "Airport": {
            "AirportCode": "DAC",
            "AirportName": "Shahjalal intl. Airport",
            "Terminal": null,
            "CityCode": "DAC",
            "CityName": "Dhaka",
            "CountryCode": "BD",
            "CountryName": "Bangladesh"
          },
          "DepTime": "2020-10-20T15:50:00"
        },
        "Destination": {
          "Airport": {
            "AirportCode": "CGP",

```



```

    "AirportName": "Shah Amanat International Airport",
    "Terminal": null,
    "CityCode": "CGP",
    "CityName": "Chittagong",
    "CountryCode": "BD",
    "CountryName": "Bangladesh"
  },
  "ArrTime": "2020-10-20T16:45:00"
},
"Airline": {
  "AirlineCode": "VQ",
  "AirlineName": "Novoair",
  "FlightNumber": "911",
  "BookingClass": "U",
  "CabinClass": "Economy",
  "OperatingCarrier": "VQ"
},
"Baggage": "Baggage :ADT-20KGS<br/>",
"JourneyDuration": "55",
"StopQuantity": "0",
"Equipment": "ATR725"
}
]
},
"Error": null
}

```

5.13. AirMiniRules:

This api can be used for getting mini fare rules for an itinerary. Not all the itineraries have mini fare rules. The availability of the mini fare rules is notified using the field “isMiniRulesAvailable” in AirPrice API.

URL	<RootUrl>/AirMiniRules
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	SearchID	String	Search id received in AirSearch response	Yes
2	ResultID	String	Result id of the interested itinerary which was received in AirSearch response	Yes

Sample Request:

```
{
```

```
"SearchID": "18f781ce-0c27-468a-8fe0-d0f2ad500c6a",
"ResultID": "1b123aae-dd05-48e7-b12a-b14436595c50"
}
```

Response:

Level	Element	Type	Description	Mandatory
1	miniRules	List of minirule elements	Contains all the minirules for the itinerary	Yes
1.1	FareRuleType	String	Type of fare rule	Yes
1.2	Paxtype	Enumeration	Passenger type. Possible values are. 1. <i>Adult</i> 2. <i>Child</i> 3. <i>Infant</i>	Yes
1.3	CityPair	String	Origin-Destination city codes	Yes
1.4	CurrencyCode	String	Currency code	
1.5	isRefundable	Boolean	Tells whether the price is refundable	Yes
1.6	amountRefundableBeforeDeparture	Decimal	Amount refundable if cancelled before departure	Yes
1.7	isRefundablebeforeDeparture	Boolean	Tells whether the amount is refundable before departure	Yes
1.8	amountrefundableafterDeparture	Decimal	Amount refundable if cancelled after departure	Yes
1.9	isRefundableafterDeparture	Boolean	Tells whether the amount is refundable after departure	Yes
1.10	isExchangeable	Boolean	Whether the itinerary exchangeable	Yes
1.11	amountExchangeableBeforeDeparture	Decimal	Total amount exchangeable before departure	Yes
1.12	isExchangeableBeforeDeparture	Boolean	Is exchangeable before departure	Yes
1.13	amountExchangeableAfterDeparture	Decimal	Amount exchangeable after departure	Yes
1.14	isExchangeableAfterDeparture	Boolean	Is exchangeable after departure	Yes
1.15	isPercentage	Boolean	Is the amount calculated based on percentage	Yes
1.16	isNoShow	Boolean	Tells whether the passenger didn't show up	Yes
2	Error	Element	Element contains error details	Yes
2.1	ErrorCode	Enumeration	Check annexure for details	No
2.2	ErrorMessage	String	Error message description	No

Sample Response:

```
{
```

```

"miniRules": [
  {
    "FareRuleType": "string",
    "Paxtype": "Adult",
    "CityPair": "BLR-DEL",
    "CurrencyCode": "BDT",
    "isRefundable": true,
    "amountRefundableBeforeDeparture": 0,
    "isRefundablebeforeDeparture": true,
    "amountrefundableafterDeparture": 0,
    "isRefundableafterDeparture": true,
    "isExchangeable": true,
    "amountExchangeableBeforeDeparture": 0,
    "isExchangeableBeforeDeparture": true,
    "amountExchangeableAfterDeparture": 0,
    "isExchangeableAfterDeparture": true,
    "isPercentage": true,
    "isNoShow": true
  }
],
"Error": null
}

```

5.14. DownloadInvoice:

Can be used for downloading the invoice.

URL	<RootUrl>/DownloadInvoice
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Search id received in AirSearch response	Yes
2	ShowPassenger	Boolean	Tells whether or not to include passenger information in the invoice	Yes

Sample Request:

```

{
  "BookingID": "FHB201013790",
  "ShowPassenger": true
}

```

5.15. DownloadTicket:

API to download the ticket.

URL	<RootUrl>/DownloadTicket
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	BookingID	String	Search id received in AirSearch response	Yes
2	ResultID	String	Result id of the ticketed itinerary, received in AirSearch response	Yes
3	PaxIndex	String	Passenger index number	Yes
4	TicketNumber	String	Ticket number	Yes
5	ShowFare	Boolean	Tells whether or not to include the passenger details in the ticket	Yes

Sample Request:

```
{
  "BookingID": "FHB201013790",
  "ResultID": "1b123aae-dd05-48e7-b12a-b14436595c50",
  "PaxIndex": "string",
  "TicketNumber": "string",
  "ShowFare": true
}
```

5.16. GetBalance:

API to get client balance.

URL	<RootUrl>/GetBalance
API Method	POST

Additional Header:

Header key	Header value
Authorization	Bearer <Token id Received in authentication Response>

Request:

Level	Element	Type	Description	Mandatory
1	UserName	String	User name of the client	Yes

Sample Request:

```
{
  "UserName": "test@sample.com"
}
```

Response:

Level	Element	Type	Description	Mandatory
-------	---------	------	-------------	-----------

1	Balance	Decimal	Total available balance	Yes
2	Credits	Decimal	Credit amount limit	Yes
3	Status	Enumeration	Response status. Possible values are <i>1. Not set</i> <i>2. Successful</i> <i>3. Failed</i>	Yes
4	Error	Element	Element contains error details	Yes
4.1	ErrorCode	Enumeration	Check annexure for details	No
4.2	ErrorMessage	String	Error message description	No

Sample Response:

```
{
  "Balance": 1200,
  "Credits": 200,
  "Status": "Successful",
  "Error": null
}
```

6. Certification Process

Steps to get flight API certification.

Step1: Registration

Travel partner have to go to api.sandbox.flyhub.com and register online for sandbox credentials. On receiving the credentials travel partner can initiate the process of integration.

Step 2: API Support

During integration if the developer face any difficulties, travel partner can reach out to apisupport@flyhub.com

Step 3: Test Cases

Below is the list of test cases that needs to be executed by travel partner at their end. JSON Request/Response for these cases along with the pnr numbers will be required for verification as a part of the certification process. Also, please make sure that test cases should be sent to the API team case wise rather than all test cases in a single notepad file.

[Case 1]: Domestic One way – 1 Adult

[Case 2]: Domestic One Way – 1 Adult + 1 Child

[Case 3]: Domestic Return – 2 Adults

[Case 4]: International One way – 1 Adult + 1 Child + 1 Infant

[Case 5]: International Return – 2 Adults + 2 Child + 1 Infant

[Case 6]: Multi way – 2 Adults

Step 4: Certification Request

Once Integration done successfully travel partner needs to send an email to apisupport@flyhub.com along with compressed folder[.zip extension is preferred] containing Request/Response logs to the above test cases, Static IP address of the production server of the client from where API requests are coming to Flyhub.

Step 5: Test Cases Verification

Flyhub will verify the test cases using JSON Request/ Response and suggest, if there is any change required. The turnaround time for the test case verification is around 4-5 working days.

Step 6: Go Live

On successful completion of all the above steps, Flyhub will whitelist the client's server IP, give sign off and provide Live access details to the travel partner. It is strongly recommended that the client also completes their UAT before making the services live at their end.

Annexure

Error Codes:	
Error code	Description
1	InvalidUserName
2	InvalidPassword
3	InvalidAuthentication
4	NotValid
5	Failed
6	LimitExceeded
7	NotProcessed
8	Unavailable
9	Insufficient
10	Expired

Booking Status:	
Status	Description
Booked	Booking on hold, can be cancelled through AirCancel API
Unconfirmed	Booking not confirmed
Pending	Booking Pending
Ticketed	Booking ticketed. Cannot cancel the booking
InProgress	Held booking is the process of ticketing
Cancelled	Booking is cancelled
Expired	Booking expired. Booking moves to this status automatically if it stays in Booked status for more than certain amount of time.
PartiallyBooked	Booking on hold but waiting for the airline confirmation
CancelInProgress	Cancellation process initiated
PaymentFailed	Payment failed
Void	Booking is voided