

Legal Disclaimer

Development:

Ethiopian Airlines NDC API was originally developed by AA Advanced Information Technology Plc, the IT consultant for the Ethiopian Airlines on the IATA NDC implementation project. Subsequently, Ethiopian Airlines has made successive revisions on the API and reserves the right to make further revisions, independently or in collaboration with AA Advanced Information Technology, in the future without prior notice to end users.

Documentation:

This documentation was originally written by AA Advanced Information Technology Plc, the IT consultant for the Ethiopian Airlines on the IATA NDC implementation project, and is intended as a guide for the purpose of communicating with the Ethiopian Airlines NDC API (Schema IATA 2017.2). Ethiopian Airlines has made successive revisions on this document to serve users/partners agreed to connect to its NDC API and reserves the right to make further revisions in the future without prior notice to end users

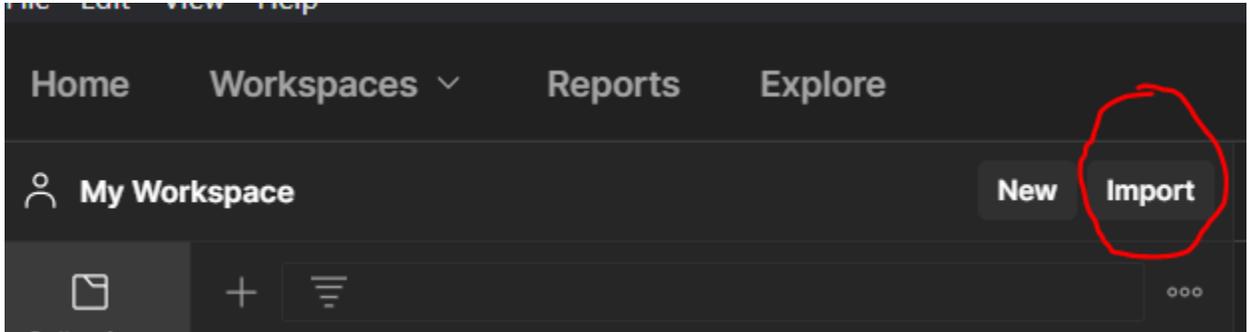
AA Advanced Information Technology and the Ethiopian Airlines are not liable for any dissatisfaction as a result of following this document hence, both parties are NOT liable to any lawsuit.

Postman:

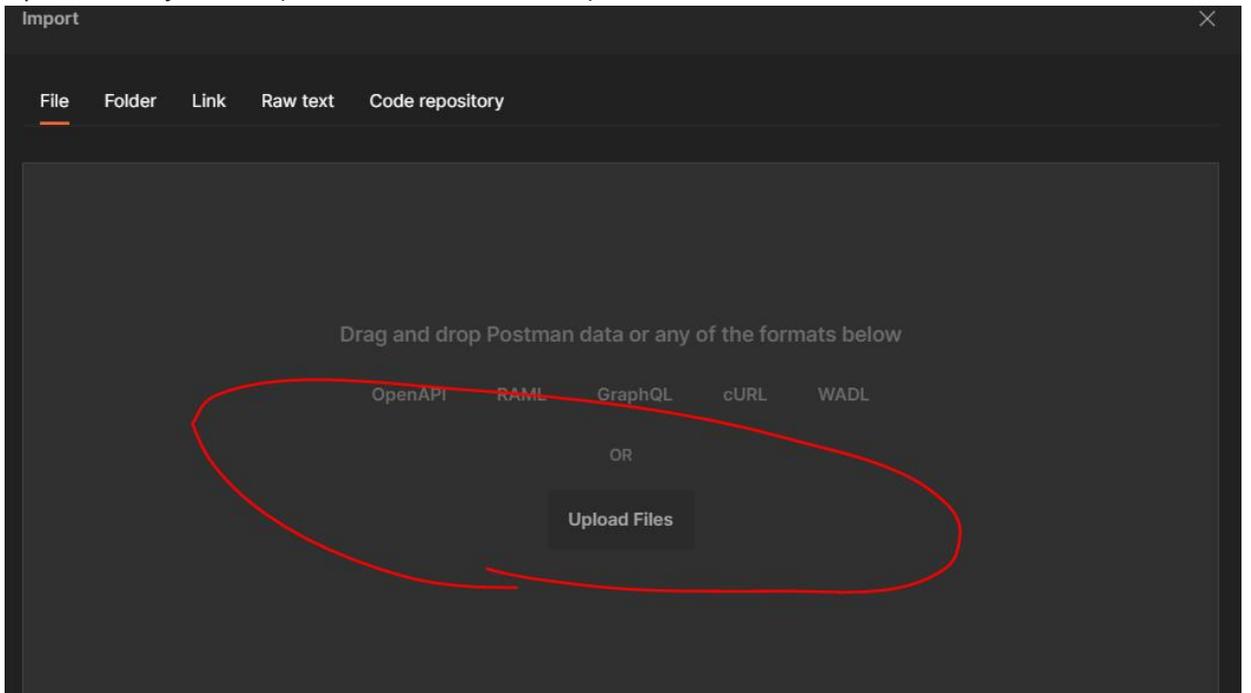
Postman collections may also be provided on request to make your testing experience better. You will need to download the Postman app (version 7+) from their website (www.getpostman.com) exclusively at your own risk. AA Advanced Information Technology and the Ethiopian Airlines are not affiliated with Postman and as a result are not liable for any issue you experience as a result of using the collections or the Postman app downloaded either from the website address provided or any web redirects as a result of visiting the link.

Pre-Formalities for testing this collection.

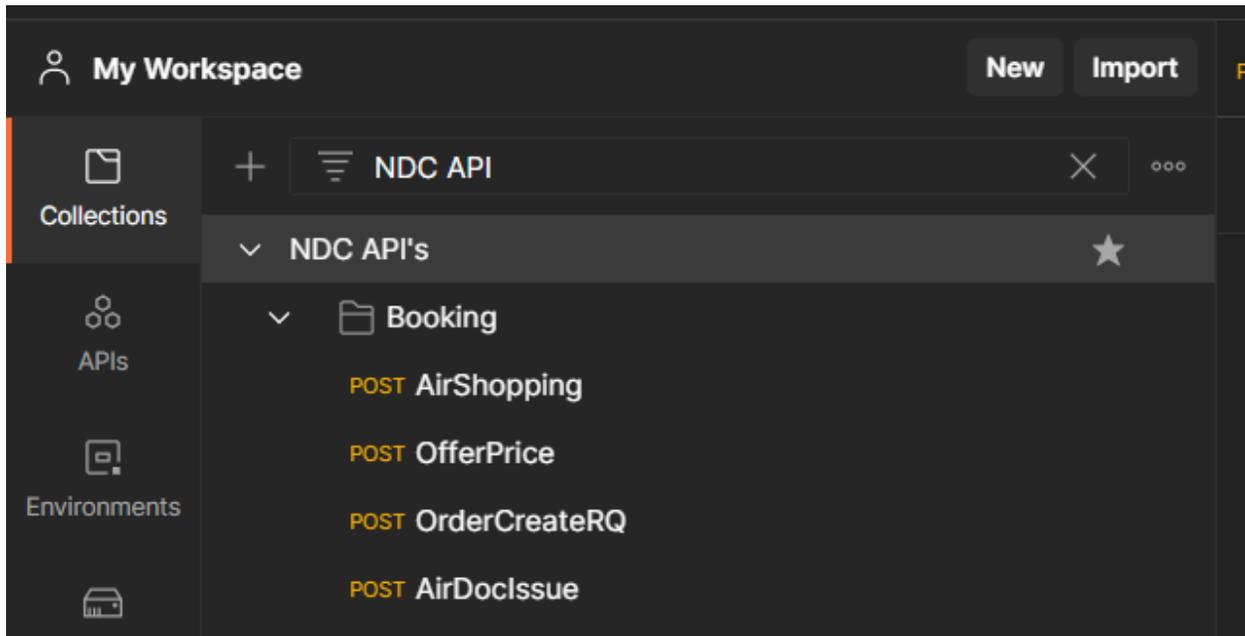
- Download and install postman latest version from [Here](#) (if you don't have on your machine).
- Import both files as shown below



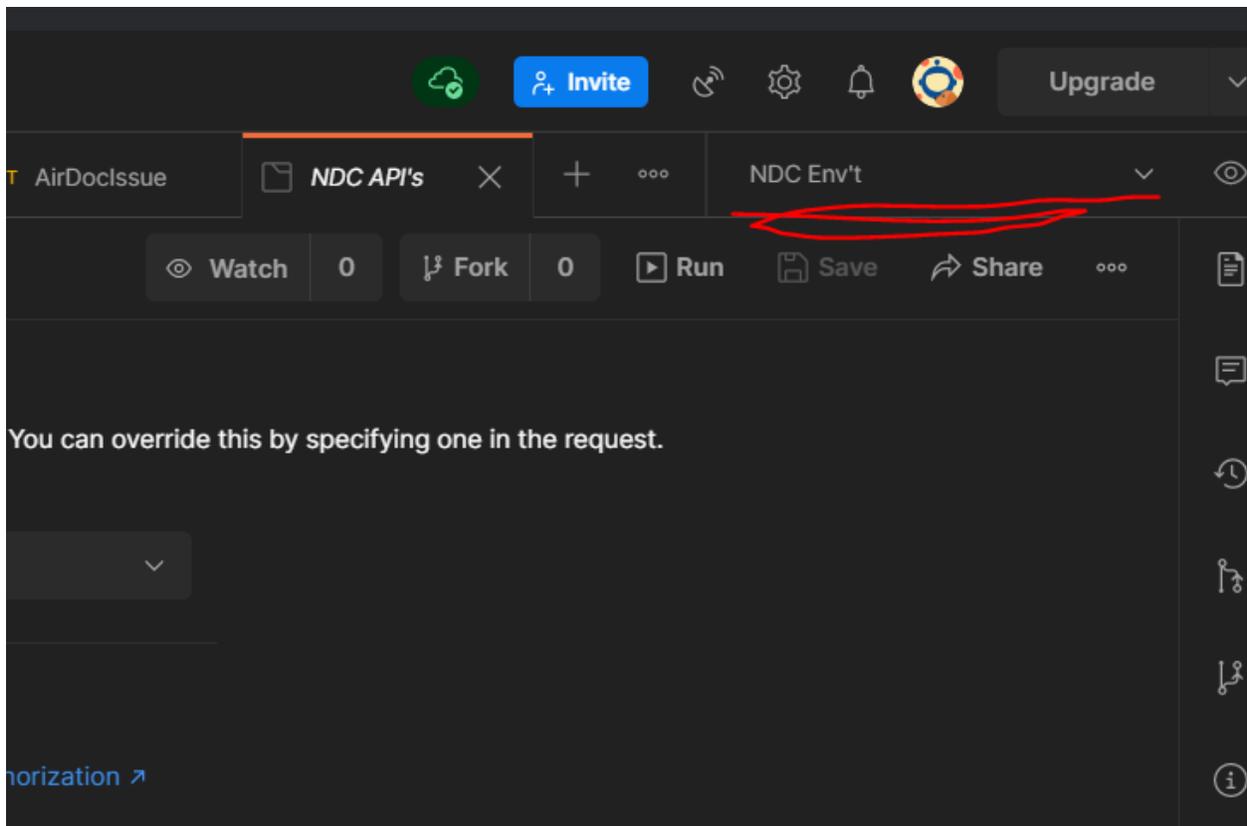
- Upload both .json files (from the extracted folder)



Then you will get NDC API's on the collection tab as shown below

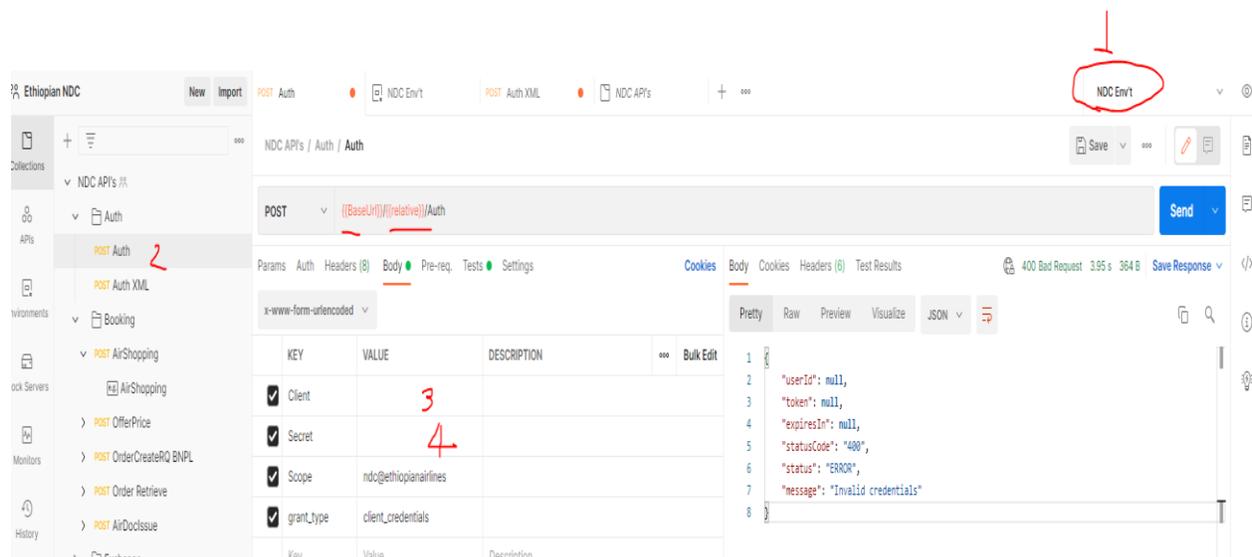


And finally select NDC Env't from the shown drop-down



Steps for NDC booking flow on postman. (Booking Steps)

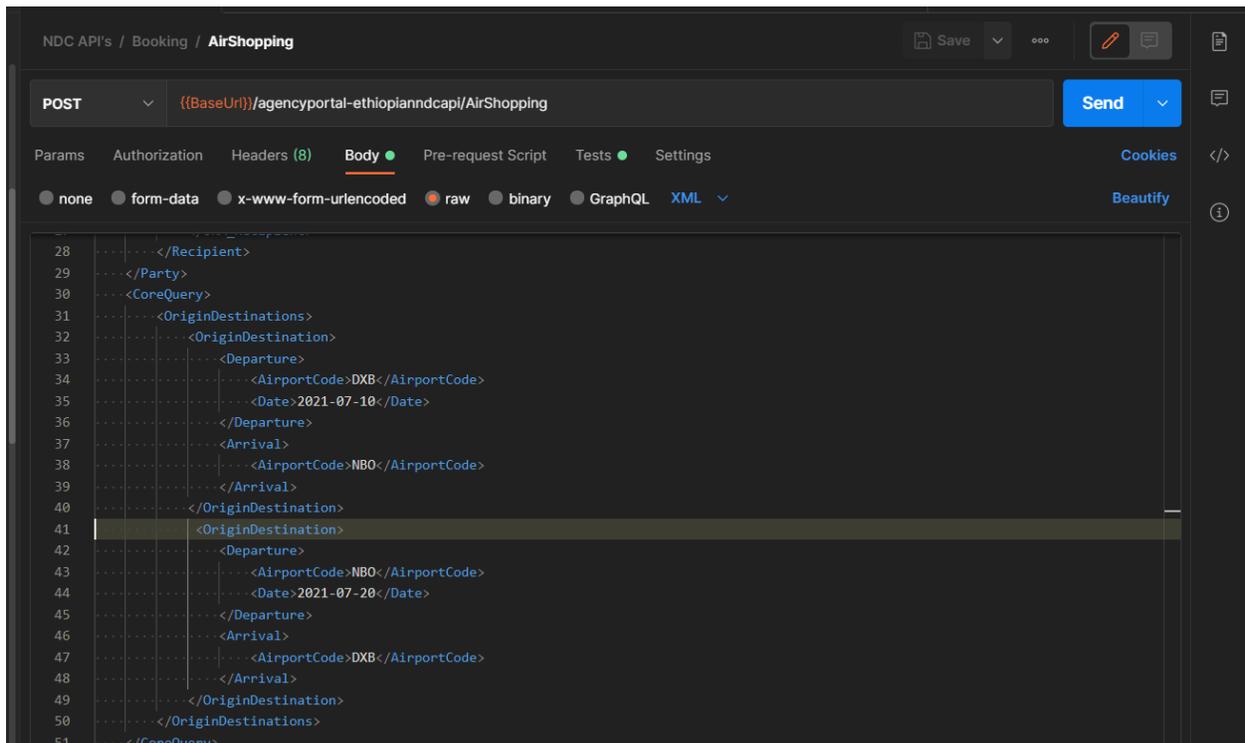
1. Authentication



1. Select the environment
2. Auth → body
3. Username: your username
4. Password: your password

2.First API endpoint is **Airshopping**,

You can configure you search parameters on CoreQuery Field As shown



The screenshot shows a REST client interface for the endpoint `POST {{BaseUri}}/agencyportal-ethiopiandncapi/AirShopping`. The request body is configured as XML. The XML structure is as follows:

```
28 .....</Recipient>
29 .....</Party>
30 .....<CoreQuery>
31 .....<OriginDestinations>
32 .....<OriginDestination>
33 .....<Departure>
34 .....<AirportCode>DXB</AirportCode>
35 .....<Date>2021-07-10</Date>
36 .....</Departure>
37 .....<Arrival>
38 .....<AirportCode>NBO</AirportCode>
39 .....</Arrival>
40 .....</OriginDestination>
41 .....<OriginDestination>
42 .....<Departure>
43 .....<AirportCode>NBO</AirportCode>
44 .....<Date>2021-07-20</Date>
45 .....</Departure>
46 .....<Arrival>
47 .....<AirportCode>DXB</AirportCode>
48 .....</Arrival>
49 .....</OriginDestination>
50 .....</OriginDestinations>
51 .....</CoreQuery>
```

And Passenger info on Datalist below Corequery.

```
</Preference>
.....<CabinPreferences>
.....<CabinType>
.....<Code>7</Code>
.....</CabinType>
.....</CabinPreferences>
.....</Preference>
.....<Qualifier>
.....<PromotionQualifiers>
.....<Code>5SDFEX9898</Code>
.....</PromotionQualifiers>
.....</Qualifier>
.....<DataLists>
.....<PassengerList>
.....<Passenger PassengerID="PAX001">
.....<PTC>ADT</PTC>
.....<LoyaltyProgramAccount>
.....<AccountNumber>00098577430</AccountNumber>
.....</LoyaltyProgramAccount>
.....</Passenger>
.....</PassengerList>
.....</DataLists>
</AirShoppingRQ>
```

after getting success response take offerId and OfferItemId you selected, as shown below

The screenshot shows the Postman interface for a REST client. The request is a POST to `localhost:1012/AirShopping`. The Tests tab is active, showing the following JavaScript code:

```
1 var jsonData = xml2json(responseBody);
2 postman.setEnvironmentVariable("ReponseId", jsonData.AirShoppingRS.ShoppingResponseID.ResponseID);
```

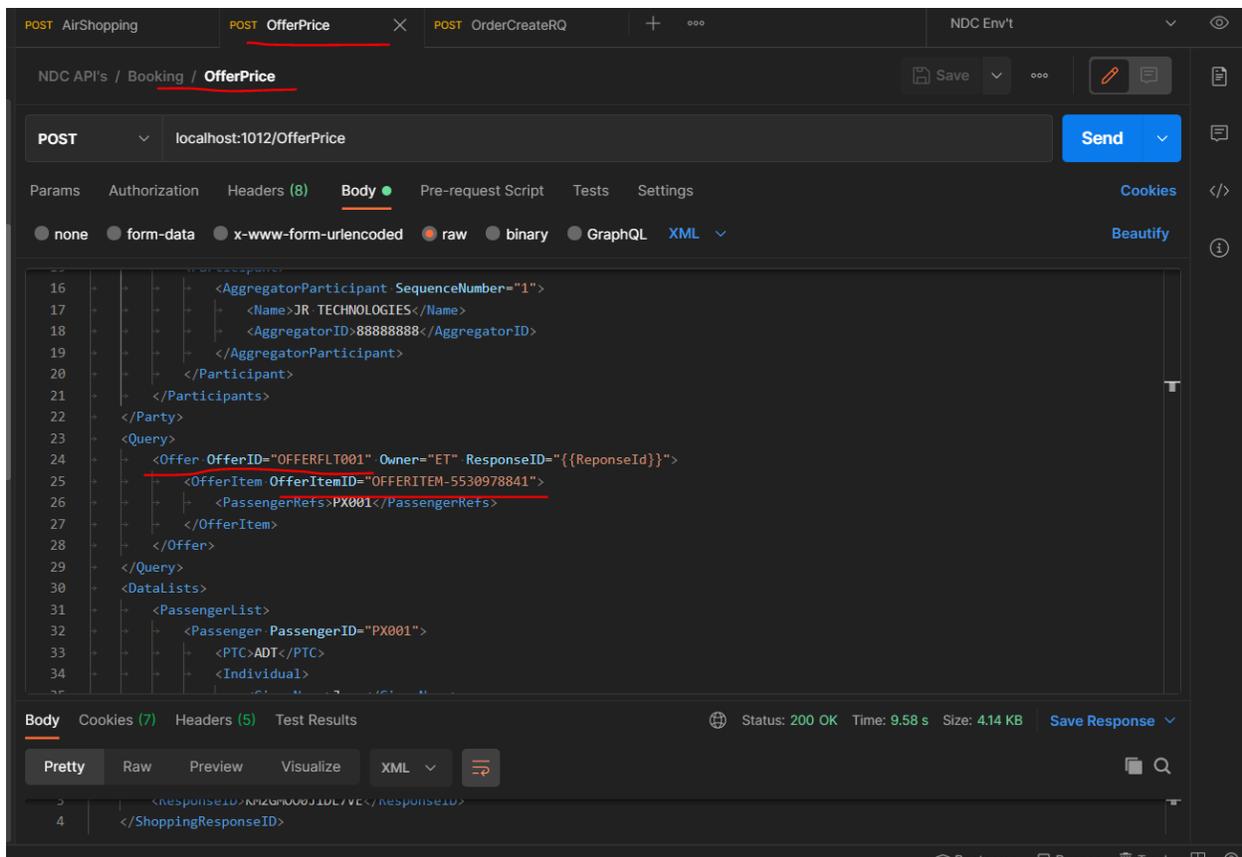
The Body tab is also active, showing the XML response. The following values are highlighted with red circles:

- `OfferID="OFFERFLT001"`
- `OfferItemID="OFFERITEM-5530978841"`

The XML response is as follows:

```
<AirShoppingRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://www.
iata.org/IATA/EDIST/2017.2">
  <ShoppingResponseID>
    <ResponseID>KM2GM000J1DL7VE</ResponseID>
  </ShoppingResponseID>
  <OffersGroup>
    <AirlineOffers>
      <Offer OfferID="OFFERFLT001" Owner="ET">
        <TimeLimits>
          <OfferExpiration Timestamp="2021-05-31T13:03:46.1416131Z" />
        </TimeLimits>
        <OfferItem OfferItemID="OFFERITEM-5530978841">
          <TotalPriceDetail>
            <TotalAmount>
              <SimpleCurrencyPrice Code="USD">717.10</SimpleCurrencyPrice>
            </TotalAmount>
            <BaseAmount Code="USD">2020</BaseAmount>
            <Taxes>
```

3. After you have offerID and offeritemID you can proceed to **OfferPrice**, and put the selected Id's to their respective variable in the request as shown below.



4 when you have success on **OfferPrice**, you can continue to **OrderCreateRQ** request and configure your passenger information as shown and hit.

The screenshot shows a REST client interface with the following details:

- Method: POST
- URL: localhost:1012/OrderCreate
- Body type: raw
- Status: 200 OK
- Time: 1 m 1.98 s
- Size: 4.66 KB

The XML response body is as follows:

```
35 .....</Offer>
36 .....</Order>
37 .....<DataLists>
38 .....<PassengerList>
39 .....<Passenger PassengerID="PAX001">
40 .....<PTC>ADT</PTC>
41 .....<Individual>
42 .....<Birthdate>1988-06-10</Birthdate>
43 .....<Gender>Female</Gender>
44 .....<NameTitle>MRS</NameTitle>
45 .....<GivenName>Jane</GivenName>
46 .....<Surname>Mefsel</Surname>
47 .....</Individual>
48 .....<LoyaltyProgramAccount>
49 .....<AccountNumber>1234525525</AccountNumber>
50 .....</LoyaltyProgramAccount>
51 .....<IdentityDocument>
52 .....<IdentityDocumentNumber>543000123</IdentityDocumentNumber>
53 .....<IdentityDocumentType>F</IdentityDocumentType>
54 .....<IssuingCountryCode>US</IssuingCountryCode>
55 .....<CitizenshipCountryCode>US</CitizenshipCountryCode>
56 .....<IssueDate>2017-01-17</IssueDate>
57 .....<ExpiryDate>2022-01-16</ExpiryDate>
58 .....<Birthdate>1988-06-10</Birthdate>
59 .....</IdentityDocument>
60 .....</PassengerList>
61 .....</DataLists>
62 .....</Order>
```

5. Success on OrderCreate will let you to proceed to this step, so you can consume **AirDocIssue** request by configuring payment method as cash (already configured on the request) and you will get ticket numbers with pnr detail as shown below.

POST AirShopping POST OfferPrice POST OrderCreateRQ POST AirDocIssue + NDC Env't

NDC API's / Booking / AirDocIssue Save Send

POST {{BaseUrl}}/agencyportal-ethiopianndcapi/AirDocIssue

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies

Body Cookies (9) Headers (9) Test Results Status: 200 OK Time: 13.39 s Size: 4.53 KB Save Response

Pretty Raw Preview Visualize XML ↻

```
24     </OrderItems>
25 </Order>
26 <TicketDocInfos>
27   <TicketDocInfo>
28     <TicketDocument>
29       <TicketDocNbr>0712128950136</TicketDocNbr>
30       <Type>A</Type>
31       <NumberofBooklets>1</NumberofBooklets>
32       <Remark>TKNE ET HK1 DXBNB00291Y10JUL/0712128950136C1</Remark>
33       <ReportingType>AirLine</ReportingType>
34     </TicketDocument>
35     <PassengerReference>PAX001</PassengerReference>
36   </TicketDocInfo>
37 </TicketDocInfos>
38 <DataLists>
39   <PassengerList>
40     <Passenger PassengerID="PAX001">
41       <PTC>ADT</PTC>
42       <Individual>
43         <GivenName>Jane</GivenName>
44         <Surname>Mefsel</Surname>
45       </Individual>
46       <LoyaltyProgramAccount>
47         <AccountNumber>1234525525</AccountNumber>
48       </LoyaltyProgramAccount>
```

