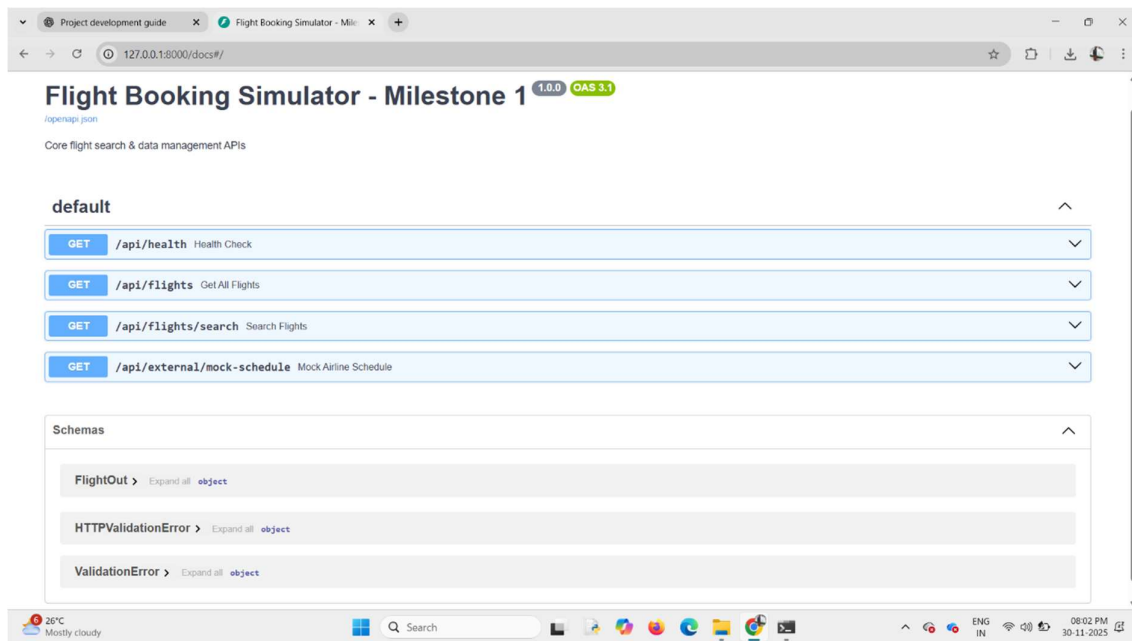
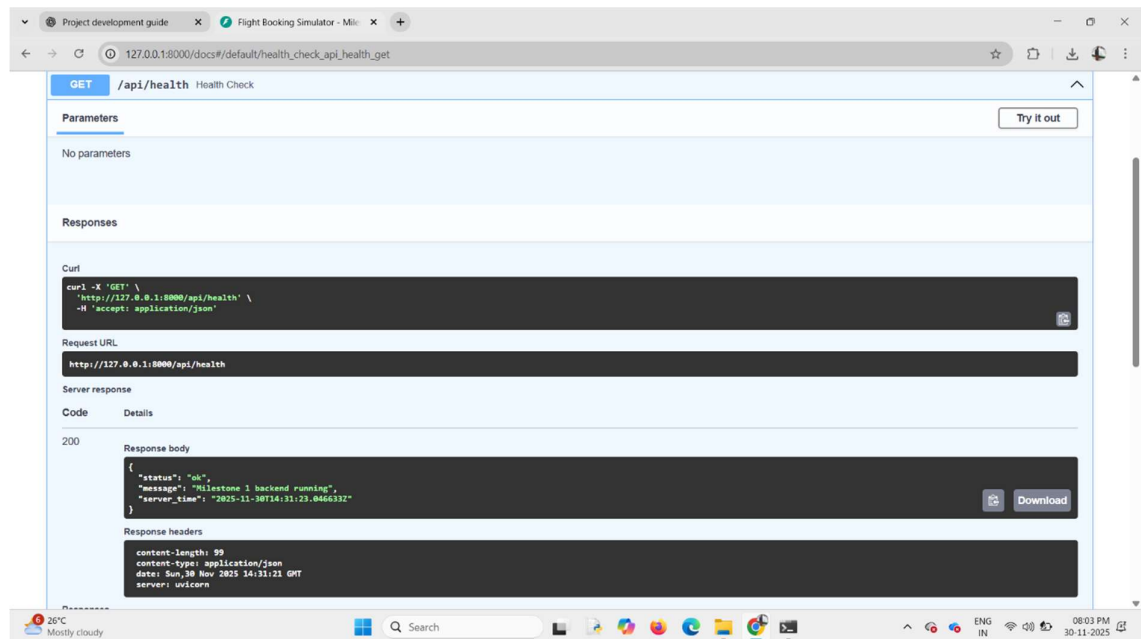


## Swagger UI – For testing APIs



### Result (Screenshot) of testing all APIs:

#### 1. /api/health (Health Check):



#### 2. /api/flights (Get All Flights):

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127.0.0.1:8000/docs/default/get\_all\_flights\_api\_flights\_get

GET /api/flights Get All Flights

Parameters

Name	Description
sort_by	price
string (query)	
sort_order	asc
string (query)	

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/flights?sort_by=price&sort_order=asc' \
  -H 'accept: application/json'
```

Request URL

http://127.0.0.1:8000/api/flights?sort\_by=price&sort\_order=asc

Server response

Code Details

26°C Mostly cloudy

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127.0.0.1:8000/docs/default/get\_all\_flights\_api\_flights\_get

Code Details

200

Response body

```
{
  "id": 1,
  "flight_no": "F8301",
  "airline_name": "AirIndia",
  "origin": "Mumbai",
  "destination": "Bangalore",
  "departure_time": "2025-11-25T11:00:00",
  "arrival_time": "2025-11-25T13:15:00",
  "duration_minutes": 135,
  "base_fare": 1000,
  "total_seats": 150,
  "seats_available": 140
},
{
  "id": 5,
  "flight_no": "F8302",
  "airline_name": "AirIndia",
  "origin": "Bangalore",
  "destination": "Mumbai",
  "departure_time": "2025-11-25T18:00:00",
  "arrival_time": "2025-11-25T20:20:00",
  "duration_minutes": 140,
  "base_fare": 1000,
  "total_seats": 150,
  "seats_available": 150
}
```

Response headers

```
content-length: 1525
content-type: application/json
date: Sun, 20 Nov 2025 14:35:07 GMT
server: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	No links

Media type

application/json

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08:06 PM 30-11-2025

The top screenshot shows a web browser window with the URL `127.0.0.1:8000/docs#/default/get_all_flights_api_flights_get`. The response body is a JSON array of two flight objects. The first flight is from Delhi to Mumbai, and the second is from Mumbai to Delhi. The response headers show `content-length: 1525`, `content-type: application/json`, `date: Sun, 30 Nov 2025 14:35:07 GMT`, and `server: uvicorn`. The response status is 200, and the description is "Successful Response".

The bottom screenshot shows the same web browser window with the same URL. The response body is a JSON array of two flight objects. The first flight is from Chennai to Delhi, and the second is from Delhi to Chennai. The response headers show `content-length: 1525`, `content-type: application/json`, `date: Sun, 30 Nov 2025 14:35:07 GMT`, and `server: uvicorn`. The response status is 200, and the description is "Successful Response".

### 3. `/api/flights/search` (Search Flights):

Project development guideFlight Booking Simulator - Mil127.0.0.1:8000/docs#/default/search\_flights\_api\_flights\_search\_get

GET/api/flights/searchSearch Flights

Parameters

Cancel

Name	Description
<b>origin</b> * required string (query)	Origin city (e.g., Mumbai) <input type="text" value="Chennai"/>
<b>destination</b> * required string (query)	Destination city (e.g., Delhi) <input type="text" value="Mumbai"/>
<b>travel_date</b> * required string(date) (query)	Travel date in YYYY-MM-DD <input type="text" value="2025-11-25"/>
<b>sort_by</b> string (query)	<input type="text" value="duration"/>
<b>sort_order</b> string (query)	<input type="text" value="desc"/>

Execute

Responses

Rainy days ahead  
25°C

Search

08:10 PM  
30-11-2025

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/flights/search?origin=Chennai&destination=Mumbai&travel_date=2025-11-25&sort_by=duration&sort_order=desc' \
  -H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/flights/search?origin=Chennai&destination=Mumbai&travel_date=2025-11-25&sort_by=duration&sort_order=desc
```

Server response

Code	Details
404	Error: Not Found

Response body

```
{
  "detail": "No flights found from Chennai to Mumbai on 2025-11-25"
}
```

Download

Response headers

```
content-length: 66
content-type: application/json
date: Sun, 30 Nov 2025 14:40:50 GMT
server: unicorn
```

Responses

Code	Description	Links
200	Successful Response	No links

Media type

Controls Accept header

Example Value | Schema

Rainy days ahead  
25°C

Search

08:11 PM  
30-11-2025

Project development guideFlight Booking Simulator - Mil

127.0.0.1:8000/docs#/default/search\_flights\_api\_flights\_search\_get

GET/api/flights/searchSearch Flights

Parameters

Cancel

Name	Description
<b>origin</b> * required string (query)	Origin city (e.g., Mumbai) <input type="text" value="Mumbai"/>
<b>destination</b> * required string (query)	Destination city (e.g., Delhi) <input type="text" value="Bangalore"/>
<b>travel_date</b> * required string(date) (query)	Travel date in YYYY-MM-DD <input type="text" value="2025-11-25"/>
<b>sort_by</b> string (query)	<input type="text" value="duration"/>
<b>sort_order</b> string (query)	<input type="text" value="desc"/>

ExecuteClear

Responses

Rainy days ahead  
25°C

Search

08:12 PM  
30-11-2025

Project development guideFlight Booking Simulator - Mil

127.0.0.1:8000/docs#/default/search\_flights\_api\_flights\_search\_get

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/flights/search?origin=Mumbai&destination=Bangalore&travel_date=2025-11-25&sort_by=duration&sort_order=desc' \
  -H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/flights/search?origin=Mumbai&destination=Bangalore&travel_date=2025-11-25&sort_by=duration&sort_order=desc
```

Server response

CodeDetails

200

Response body

```
{
  "id": 5,
  "flight_no": "F8301",
  "airline_name": "Air India",
  "origin": "Mumbai",
  "destination": "Bangalore",
  "departure_time": "2025-11-25T11:00:00",
  "arrival_time": "2025-11-25T13:15:00",
  "duration_minutes": 135,
  "base_fare": 8000,
  "total_seats": 150,
  "seats_available": 140
}
```

Download

Response headers

```
content-length: 218
content-type: application/json
date: Sun, 30 Nov 2025 14:42:17 GMT
server: voicorn
```

Responses

CodeDescription

Links

Rain coming  
In about 1.5 hours

Search

08:13 PM  
30-11-2025

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127.0.0.1:8000/docs#/default/search\_flights\_api\_flights\_search\_get

### GET /api/flights/search Search Flights

Parameters

Cancel

Name	Description
<b>origin</b> * required string (query)	Origin city (e.g., Mumbai) <input type="text" value="Mumbai"/>
<b>destination</b> * required string (query)	Destination city (e.g., Delhi) <input type="text" value="Mumbai"/>
<b>travel_date</b> * required string(date) (query)	Travel date in YYYY-MM-DD <input type="text" value="2025-11-25"/>
<b>sort_by</b> string (query)	<input type="text" value="duration"/>
<b>sort_order</b> string (query)	<input type="text" value="desc"/>

Execute Clear

### Responses

Rain coming In about 1.5 hours

Search

127.0.0.1:8000/docs#/default/search\_flights\_api\_flights\_search\_get

### Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/flights/search?origin=Mumbai&destination=Mumbai&travel_date=2025-11-25&sort_by=duration&sort_order=desc' \
  -H 'accept: application/json'
```

Request URL

[http://127.0.0.1:8000/api/flights/search?origin=Mumbai&destination=Mumbai&travel\\_date=2025-11-25&sort\\_by=duration&sort\\_order=desc](http://127.0.0.1:8000/api/flights/search?origin=Mumbai&destination=Mumbai&travel_date=2025-11-25&sort_by=duration&sort_order=desc)

Server response

Code	Details
400	Error: Bad Request

Response body

```
{
  "detail": "Origin and destination must be different"
}
```

Response headers

```
content-length: 53
content-type: application/json
date: Sun, 30 Nov 2025 14:44:06 GMT
server: unicorn
```

### Responses

Code	Description	Links
200	Successful Response	No links

Media type:

Controls: Accept header

Rain coming In about 1.5 hours

Search

127.0.0.1:8000/docs#/default/search\_flights\_api\_flights\_search\_get

#### 4. /api/external/mock-schedule (Mock Airline Schedule):

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127.0.0.1:8000/docs#/default/mock\_airline\_schedule\_api\_external\_mock\_schedule\_get

GET /api/external/mock-schedule Mock Airline Schedule

Parameters

No parameters

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  'http://127.0.0.1:8000/api/external/mock-schedule' \
  -H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/external/mock-schedule
```

Server response

Code Details

200

Response body

```
{
  "provider": "Arun",
  "generated_at": "2025-11-30T14:45:50.755856Z",
  "flights": [
    {
      "flight_no": "FB401",
      "airline_name": "AirIndiaExpress",
      "origin": "Kolkata",
      "destination": "Chennai",
      "departure_time": "2025-11-25 06:00:00",
      "arrival_time": "2025-11-25 08:10:00",
      "duration_minutes": 130,
      "base_fare": 6405,
      "total_seats": 180,
      "seats_available": 100
    },
    {
      "flight_no": "FB402",
      "airline_name": "AirIndiaExpress",
      "origin": "Hyderabad",
      "destination": "Mumbai",
      "departure_time": "2025-11-25 09:30:00",
      "arrival_time": "2025-11-25 12:05:00",
      "duration_minutes": 155,
      "base_fare": 6570,
      "total_seats": 120,
      "seats_available": 67
    }
  ]
}
```

Response headers

```
content-length: 588
content-type: application/json
date: Sun, 30 Nov 2025 14:45:50 GMT
server: uvicorn
```

Responses

Code Description

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08:15 PM 30-11-2025

08:16 PM 30-11-2025

Terminal Output:

```
C:\Windows\System32\cmd.exe x + v
Microsoft Windows [Version 10.0.26100.7171]
(c) Microsoft Corporation. All rights reserved.

E:\ARUN\Flight-booking-m1>backend\venv\scripts\activate

(venv) E:\ARUN\Flight-booking-m1>uvicorn backend.main:app --reload
INFO: Will watch for changes in these directories: ['E:\ARUN\Flight-booking-m1']
INFO: Uvicorn running on http://127.0.0.1:8000 (Press CTRL+C to quit)
INFO: Started reloader process [9380] using StatReload
INFO: Started server process [5644]
INFO: Waiting for application startup.
INFO: Application startup complete.
INFO: 127.0.0.1:56455 - "GET /docs HTTP/1.1" 200 OK
INFO: 127.0.0.1:56455 - "GET /openapi.json HTTP/1.1" 200 OK
INFO: 127.0.0.1:53568 - "GET /api/health HTTP/1.1" 200 OK
INFO: 127.0.0.1:54376 - "GET /api/flights?sort_by=price&sort_order=asc HTTP/1.1" 200 OK
INFO: 127.0.0.1:53587 - "GET /api/flights/search?origin=Chennai&destination=Mumbai&travel_date=2025-11-25&sort_by=duration&sort_order=desc HTTP/1.1" 404 Not Found
INFO: 127.0.0.1:64480 - "GET /api/flights/search?origin=Mumbai&destination=Bangalore&travel_date=2025-11-25&sort_by=duration&sort_order=desc HTTP/1.1" 200 OK
INFO: 127.0.0.1:61180 - "GET /api/flights/search?origin=Mumbai&destination=Mumbai&travel_date=2025-11-25&sort_by=duration&sort_order=desc HTTP/1.1" 400 Bad Request
INFO: 127.0.0.1:64796 - "GET /api/external/mock-schedule HTTP/1.1" 200 OK
```

How to run the backend server and test all APIs?

First go to the project folder in your file explorer. Next follow the below steps:

1. Activate the Virtual Environment by typing the following command in terminal:  
**backend\venv\scripts\activate**
2. Then type **uvicorn backend.main:app --reload**
3. Now, backend server is running. You can now open Swagger UI to test all APIs. In your browser, go to: <http://127.0.0.1:8000/docs> .