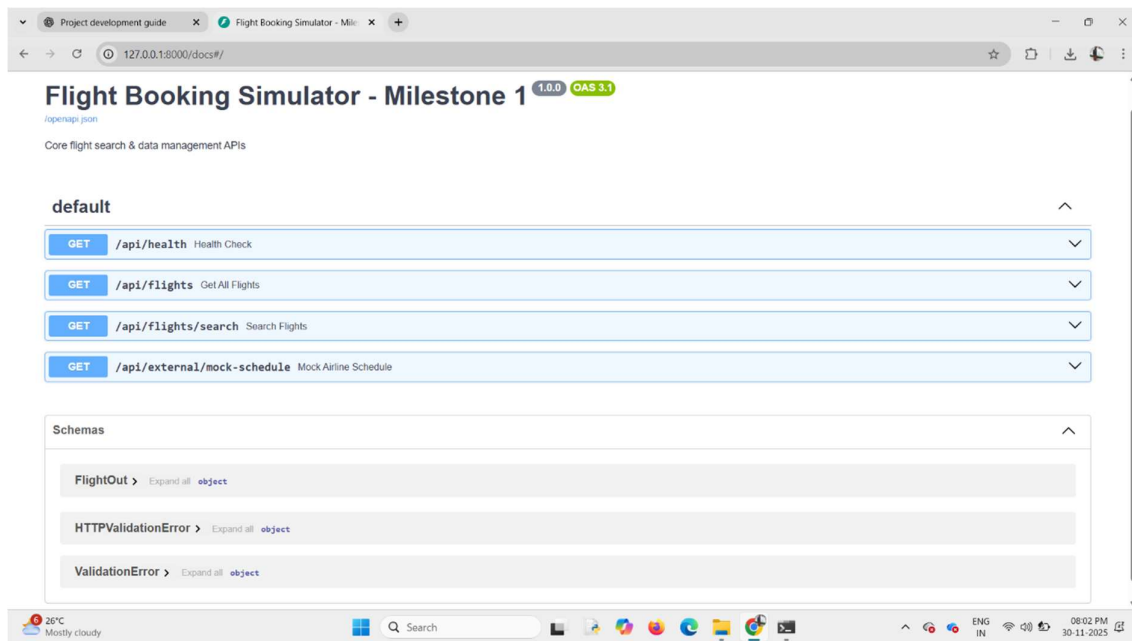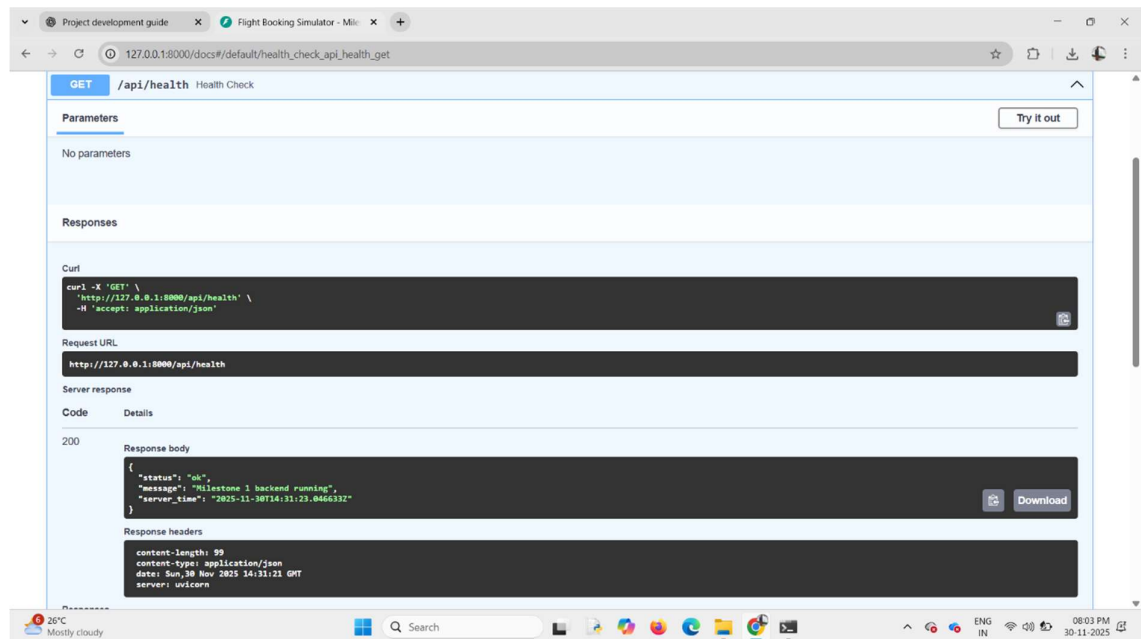Swagger UI – For testing APIs

Result (Screenshot) of testing all APIs:

1. /api/health (Health Check):

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

127.0.0.1:8000/docs#/default/get_all_flights_api_flights_get

GET `/api/flights` Get All Flights ^

Parameters Cancel

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

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 — Q Search — ENG IN — 08:05 PM 30-11-2025

Code	Details
200	**Response body**

```
[
  {
    "id": 5,
    "flight_no": "FB301",
    "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": 5000,
    "total_seats": 150,
    "seats_available": 140
  },
  {
    "id": 6,
    "flight_no": "FB302",
    "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": 6000,
    "total_seats": 150,
    "seats_available": 150
  },
```

Download

Response headers

```
content-length: 1525
content-type: application/json
date: Sun,30 Nov 2025 14:35:07 GMT
server: uvicorn
```

Responses

Code	Description		Links
200	Successful Response		*No links*
	Media type		
	application/json ▾		

26°C Mostly cloudy — Q Search — ENG IN — 08:06 PM 30-11-2025

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

Screenshot 1

GET /api/flights/search Search Flights   ⌃

Parameters   [Cancel]

Name	Description
origin * required string (query)	Origin city (e.g., Mumbai) `Chennai`
destination * required string (query)	Destination city (e.g., Delhi) `Mumbai`
travel_date * required string($date) (query)	Travel date in YYYY-MM-DD `2025-11-25`
sort_by string (query)	`duration ⌄`
sort_order string (query)	`desc ⌄`

[Execute]

Responses

Code   Description   Links

Screenshot 2

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 Undocumented	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: uvicorn
```

Responses

Code	Description	Links
200	Successful Response	No links

Media type

`application/json ⌄`

Controls Accept header.

Example Value | Schema

Screen 1 (top browser window)

Tabs: Project development guide | Flight Booking Simulator - Mil...

URL: 127.0.0.1:8000/docs#/default/search_flights_api_flights_search_get

GET `/api/flights/search` Search Flights

Parameters

Cancel

Name	Description
origin * required string (query)	Origin city (e.g., Mumbai) Mumbai
destination * required string (query)	Destination city (e.g., Delhi) Bangalore
travel_date * required string($date) (query)	Travel date in YYYY-MM-DD 2025-11-25
sort_by string (query)	duration ▾
sort_order string (query)	desc ▾

Execute | Clear

Responses

Rainy days ahead
25°C

Search

ENG IN
08:12 PM
30-11-2025

Screen 2 (bottom browser window)

Tabs: Project development guide | Flight Booking Simulator - Mil...

URL: 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

Code	Details
200	**Response body**

```
[
  {
    "id": 5,
    "flight_no": "FB301",
    "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": 5800,
    "total_seats": 150,
    "seats_available": 140
  }
]
```

Download

Response headers

```
content-length: 258
content-type: application/json
date: Sun,30 Nov 2025 14:42:17 GMT
server: uvicorn
```

Responses

Code	Description	Links

Rain coming
In about 1.5 hours

Search

ENG IN
08:13 PM
30-11-2025

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

Terminal Output:

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 .