

Milestone 3 - Booking Workflow & Transaction Management

Milestone 3 Endpoints

The screenshot shows a browser window displaying a list of API endpoints for a flight booking simulator. The URL is 127.0.0.1:8000/docs. The endpoints listed are:

- GET /api/bookings Get All Bookings
- POST /api/bookings Create Booking
- POST /api/bookings/{pnr}/pay Simulate Payment
- GET /api/bookings/{pnr} Get Booking By Pnr
- DELETE /api/bookings/{pnr} Cancel Booking

Below the endpoints, there is a section titled "Schemas" which lists several schema definitions:

- BookingRequest > Expand all object
- BookingResponse > Expand all object
- FareHistoryOut > Expand all object
- FlightOut > Expand all object
- FlightWithPriceOut > Expand all object
- HTTPValidationError > Expand all object

The browser status bar at the bottom shows the date and time as 22-12-2025 04:11 PM.

1. Create Booking

The screenshot shows a browser window displaying the configuration for the POST /api/bookings Create Booking endpoint. The URL is 127.0.0.1:8000/docs#/default/create_booking_api_bookings_post. The configuration includes:

- Parameters:** No parameters.
- Request body (required):** application/json
- Body Content:** A JSON object with fields: flight_id (4), passenger_name (Vijay), seat_no (3E).
- Buttons:** Execute and Clear.

The browser status bar at the bottom shows the date and time as 22-12-2025 04:15 PM.

The screenshot shows a browser window titled "Flight Booking Simulator - Swagger UI". The URL in the address bar is `127.0.0.1:8000/docs#/default/create_booking_api_bookings_post`. The main content area displays a "Curl" command:

```
curl -X 'POST' \
'http://127.0.0.1:8000/api/bookings' \
-H 'accept: application/json' \
-H 'Content-Type: application/json' \
-d '{
  "flight_id": 4,
  "passenger_name": "Vijay",
  "seat_no": "3E"
}'
```

Below the command, the "Request URL" is shown as `http://127.0.0.1:8000/api/bookings`. The "Server response" section shows a status code of 200 with the following details:

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "Y20XXKWNZ", "flight_id": 4, "passenger_name": "Vijay", "seat_no": "3E", "price": 6035, "status": "CONFIRMED" }</pre> <p>Response headers</p> <pre>content-length: 108 content-type: application/json date: Mon, 22 Dec 2025 10:45:03 GMT server: uvicorn</pre>

The "Responses" section includes a weather widget showing 29°C and sunny conditions.

2. Simulate Booking Payment

The screenshot shows a browser window titled "Flight Booking Simulator - Swagger UI". The URL in the address bar is `127.0.0.1:8000/docs#/default/simulate_payment_api_bookings_pnr_pay_post`. The main content area displays a "POST" method for "/api/bookings/{pnr}/pay" with the title "Simulate Payment".

The "Parameters" section shows a required parameter "pnr" with the value "Y20XXKWNZ".

The "Responses" section shows a status code of 200 with the following details:

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "Y20XXKWNZ", "status": "PAID" }</pre>

The "Responses" section includes a weather widget showing 29°C and sunny conditions.

Screenshot of a web browser showing a successful payment response from the Flight Booking Simulator API.

Server response

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "Y2OXKWNZ", "status": "PAID" }</pre> <p>Response headers</p> <pre>content-length: 34 content-type: application/json date: Mon,22 Dec 2025 10:49:10 GMT server: uvicorn</pre>

Responses

Code	Description
200	Successful Response

Media type

Windows taskbar icons are visible at the bottom.

3. Cancel Booking

Screenshot of a web browser showing the cancellation of a booking via the API.

DELETE /api/bookings/{pnr} Cancel Booking

Parameters

Name	Description
pnr * required	string (path)

Value: WKI6IP8B

Buttons: Execute, Clear

Responses

Curl

```
curl -X 'DELETE' \
'http://127.0.0.1:8000/api/bookings/WKI6IP8B' \
-H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/bookings/WKI6IP8B
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "WKI6IP8B", "status": "CANCELLED" }</pre>

Windows taskbar icons are visible at the bottom.

Flight Booking Simulator - Swagger UI

127.0.0.1:8000/docs#/default/cancel_booking_api_bookings_pnr_delete

Server response

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "WKI6IP8B", "status": "CANCELLED" }</pre> <p>Response headers</p> <pre>content-length: 39 content-type: application/json date: Mon,22 Dec 2025 10:51:07 GMT server: unicorn</pre>

Responses

Code	Description
200	Successful Response

29°C Sunny 04:21 PM 22-12-2025

Flight Booking Simulator - Swagger UI

127.0.0.1:8000/docs#/default/cancel_booking_api_bookings_pnr_delete

pnr * required string (path)

WKI6IP8B

Execute Clear

Responses

Curl

```
curl -X 'DELETE' \
http://127.0.0.1:8000/api/bookings/WKI6IP8B' \
-H 'accept: application/json'
```

Request URL

http://127.0.0.1:8000/api/bookings/WKI6IP8B

Server response

Code	Details
200	<p>Response body</p> <pre>{ "message": "Booking already cancelled" }</pre> <p>Download</p> <p>Response headers</p> <pre>content-length: 39 content-type: application/json</pre>

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4. Get Booking History By PNR

Flight Booking Simulator - Swagger UI

GET /api/bookings/{pnr} Get Booking By Pnr

Parameters

Name	Description
pnr <small>required</small>	Y20XKWNZ

Execute Clear

Responses

Curl

```
curl -X 'GET' \
'http://127.0.0.1:8000/api/bookings/Y20XKWNZ' \
-H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/bookings/Y20XKWNZ
```

Server response

Code Details

200 Response body

```
{
  "pnr": "Y20XKWNZ",
  "flight_id": 4,
  "passenger_name": "Vijay",
  "seat_no": "3E",
  "price": 6035,
  "status": "PAID"
}
```

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Flight Booking Simulator - Swagger UI

127.0.0.1:8000/docs#/default/get_booking_by_pnr_api_bookings_pnr_get

Server response

Code Details

200 Response body

```
{
  "pnr": "Y20XKWNZ",
  "flight_id": 4,
  "passenger_name": "Vijay",
  "seat_no": "3E",
  "price": 6035,
  "status": "PAID"
}
```

Response headers

```
content-length: 103
content-type: application/json
date: Mon,22 Dec 2025 10:54:55 GMT
server: uvicorn
```

Responses

Code Description

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Flight Booking Simulator - Swapnil

GET /api/bookings/{pnr} Get Booking By Pnr

Parameters

Name	Description
pnr <small>required</small>	Y2OXKW

Responses

Curl

```
curl -X 'GET' \
'http://127.0.0.1:8000/api/bookings/Y2OXKW' \
-H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/bookings/Y2OXKW
```

Server response

Code Details

404 Undocumented Error: Not Found

Response body

```
{ "detail": "Booking not found" }
```

Response headers

```
content-length: 30
content-type: application/json
date: Mon,22 Dec 2025 10:55:48 GMT
server: uvicorn
```

Responses

Code Description

5. Get All Bookings History

Flight Booking Simulator - Swagger UI

GET /api/bookings Get All Bookings

Parameters

No parameters

Responses

Curl

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

Request URL

```
http://127.0.0.1:8000/api/bookings
```

Server response

Code Details

200 Response body

```
[ { "pnr": "SNTR17IU", "flight_id": 2, "passenger_name": "Arun", "seat_no": "4C", "price": 4500, "status": "PAYMENT_FAILED" }, { "pnr": "AND5IO91", "flight_id": 2, "passenger_name": "Arun", "seat_no": "2", "price": 4960, "status": "CANCELLED" }, { "pnr": "FA4W2DXX", "flight_id": 2, "passenger_name": "Arun", "seat_no": "4C", "price": 4960, "status": "CONFIRMED" }, { "pnr": "A530TKZD", "flight_id": 2, "passenger_name": "Arun", "seat_no": "4C", "price": 5270, "status": "CONFIRMED" }, { "pnr": "JKR5FPBR", "flight_id": 5, "passenger_name": "Ramesh", "seat_no": "4C", "price": 5270, "status": "CONFIRMED" } ]
```

Flight Booking Simulator - Swagger UI

GET /api/bookings Get All Bookings

Code Details

200 Response body

```
[ { "pnr": "SNTR17IU", "flight_id": 2, "passenger_name": "Arun", "seat_no": "4C", "price": 4500, "status": "PAYMENT_FAILED" }, { "pnr": "AND5IO91", "flight_id": 2, "passenger_name": "Arun", "seat_no": "2", "price": 4960, "status": "CANCELLED" }, { "pnr": "FA4W2DXX", "flight_id": 2, "passenger_name": "Arun", "seat_no": "4C", "price": 4960, "status": "CONFIRMED" }, { "pnr": "A530TKZD", "flight_id": 2, "passenger_name": "Arun", "seat_no": "4C", "price": 5270, "status": "CONFIRMED" }, { "pnr": "JKR5FPBR", "flight_id": 5, "passenger_name": "Ramesh", "seat_no": "4C", "price": 5270, "status": "CONFIRMED" } ]
```

Flight Booking Simulator - Swapnil

127.0.0.1:8000/docs#/default/get_all_bookings_api_bookings_get

Code	Details
200	<p>Response body</p> <pre>[{"pnr": "JPI398BU", "flight_id": 1, "passenger_name": "Ramesh", "seat_no": "3C", "price": 5800, "status": "PAID"}, {"pnr": "WKG16IP8B", "flight_id": 1, "passenger_name": "Jeyalakshmi", "seat_no": "2C", "price": 5200, "status": "PAID"}, {"pnr": "WKG16IP8B", "flight_id": 1, "passenger_name": "Arun", "seat_no": "1A", "price": 7800, "status": "CANCELLED"}, {"pnr": "S1U0ARHY", "flight_id": 1, "passenger_name": "Sanjay", "seat_no": "1B", "price": 9100, "status": "CONFIRMED"}]</pre>

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Flight Booking Simulator - Swapnil

127.0.0.1:8000/docs#/default/get_all_bookings_api_bookings_get

Code	Details
200	<p>Response body</p> <pre>[{"pnr": "JPI398BU", "flight_id": 1, "passenger_name": "Ramesh", "seat_no": "3C", "price": 5800, "status": "PAID"}, {"pnr": "20DAK760", "flight_id": 1, "passenger_name": "Arun", "seat_no": "1A", "price": 9100, "status": "CONFIRMED"}, {"pnr": "FST9PO8I", "flight_id": 1, "passenger_name": "Archana", "seat_no": "3C", "price": 6825, "status": "CANCELLED"}, {"pnr": "Y20XKNZ", "flight_id": 4, "passenger_name": "Vijay", "seat_no": "3E", "price": 6035, "status": "PAID"}]</pre>

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Terminal Output:

```
C:\Windows\System32\cmd.exe + - Microsoft Windows [Version 10.0.26200.7462] (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 [7228] using StatReload INFO: Starting main process [16628] INFO: Waiting for application startup. INFO: Application startup complete. INFO: 127.0.0.1:65460 - "GET /docs HTTP/1.1" 200 OK INFO: 127.0.0.1:65460 - "GET /openapi.json HTTP/1.1" 200 OK INFO: 127.0.0.1:56554 - "POST /api/bookings HTTP/1.1" 200 OK INFO: 127.0.0.1:54791 - "GET /api/bookings HTTP/1.1" 200 OK INFO: 127.0.0.1:53338 - "POST /api/bookings/Y2OXKWNZ/pay HTTP/1.1" 200 OK INFO: 127.0.0.1:63851 - "DELETE /api/bookings/WK16IP8B HTTP/1.1" 200 OK INFO: 127.0.0.1:50759 - "DELETE /api/bookings/WK16IP8B HTTP/1.1" 200 OK INFO: 127.0.0.1:61140 - "GET /api/bookings/Y2OXKWNZ HTTP/1.1" 200 OK INFO: 127.0.0.1:58987 - "GET /api/bookings/Y2OXKWNZ HTTP/1.1" 404 Not Found INFO: 127.0.0.1:62226 - "GET /api/bookings HTTP/1.1" 200 OK |
```

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