

Milestone 3 - Booking Workflow & Transaction Management

Milestone 3 Endpoints

The screenshot displays a REST client interface with the following endpoints:

- 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, a 'Schemas' section lists the following data models:

- BookingRequest
- BookingResponse
- FareHistoryOut
- FlightOut
- FlightWithPriceOut
- HTTPValidationError

1. Create Booking

The screenshot shows the configuration for the **POST** `/api/bookings` endpoint. The 'Parameters' tab is active, showing 'No parameters'. The 'Request body' is set to `application/json` and contains the following JSON:

```
{  "flight_id": 4,  "passenger_name": "Vijay",  "seat_no": "3E"}
```

The 'Responses' tab is currently empty. The interface includes 'Execute' and 'Clear' buttons at the bottom of the request body editor.

Flight Booking Simulator - Swagger UI

127.0.0.1:8000/docs#/default/create_booking_api_bookings_post

Curl

```
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"
  }'
```

Request URL

http://127.0.0.1:8000/api/bookings

Server response

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "Y20XKWNZ", "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>

Responses

2. Simulate Booking Payment

Flight Booking Simulator - Swagger UI

127.0.0.1:8000/docs#/default/simulate_payment_api_bookings_pnr_pay_post

POST /api/bookings/{pnr}/pay Simulate Payment

Parameters

Name	Description
pnr <small>* required</small>	
string	
(path)	

Y20XKWNZ

Execute Clear

Responses

Curl

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

Request URL

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

Server response

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "Y20XKWNZ", "status": "PAID" }</pre>

Flight Booking Simulator - Swi x +

127.0.0.1:8000/docs#/default/simulate_payment_api_bookings_pnr_pay_post

Server response

Code	Details
200	<p>Response body</p> <pre>{ "pnr": "Y20XKMNZ", "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

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3. Cancel Booking

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127.0.0.1:8000/docs#/default/cancel_booking_api_bookings_pnr_delete

DELETE /api/bookings/{pnr} Cancel Booking

Parameters

Cancel

Name	Description
pnr <small>* required</small> 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>{ "pnr": "WKI6IP8B", "status": "CANCELLED" }</pre>

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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: uvicorn</pre>

Responses

Code	Description
200	Successful Response

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>Response headers</p> <pre>content-length: 39 content-type: application/json</pre>

4. Get Booking History By PNR

Flight Booking Simulator - Swagger UI

127.0.0.1:8000/docs#/default/get_booking_by_pnr_api_bookings__pnr__get

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

Parameters

Name	Description
pnr <small>required</small> string (path)	<input type="text" value="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	<p>Response body</p> <pre>{ "pnr": "Y20XKWNZ", "flight_id": 4 }</pre>

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	<p>Response body</p> <pre>{ "pnr": "Y20XKWNZ", "flight_id": 4, "passenger_name": "Vijay", "seat_no": "3E", "price": 6035, "status": "PAID" }</pre> <p>Response headers</p> <pre>content-length: 103 content-type: application/json date: Mon, 22 Dec 2025 10:54:55 GMT server: uvicorn</pre>

Responses

Code	Description
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Flight Booking Simulator - Swagger UI

127.0.0.1:8000/docs#/default/get_booking_by_pnr_api_bookings__pnr_get

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

Parameters

Name	Description
pnr * required string (path)	<input type="text" value="Y20XKW"/>

Execute **Clear**

Responses

Curl

```
curl -X 'GET' \
'http://127.0.0.1:8000/api/bookings/Y20XKW' \
-H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/bookings/Y20XKW
```

Server response

Curl

```
curl -X 'GET' \
'http://127.0.0.1:8000/api/bookings/Y20XKW' \
-H 'accept: application/json'
```

Request URL

```
http://127.0.0.1:8000/api/bookings/Y20XKW
```

Server response

Code	Details
404 <i>Undocumented</i>	Error: Not Found Response body <pre>{ "detail": "Booking not found" }</pre> Response headers <pre>content-length: 30 content-type: application/json date: Mon, 22 Dec 2025 10:55:48 GMT server: uvicorn</pre>

Responses

Code	Description
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5. Get All Bookings History

Flight Booking Simulator - Swagger

127.0.0.1:8000/docs#/default/get_all_bookings_api_bookings_get

GET /api/bookings Get All Bookings

Parameters

No parameters

Execute Clear

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": "SMTE17JU",
  "flight_id": 1,
  "passenger_name": "Arun",
  "seat_no": "4C",
  "price": 8518,
  "status": "PAYMENT_FAILED"
}
```

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Flight Booking Simulator - Swagger

127.0.0.1:8000/docs#/default/get_all_bookings_api_bookings_get

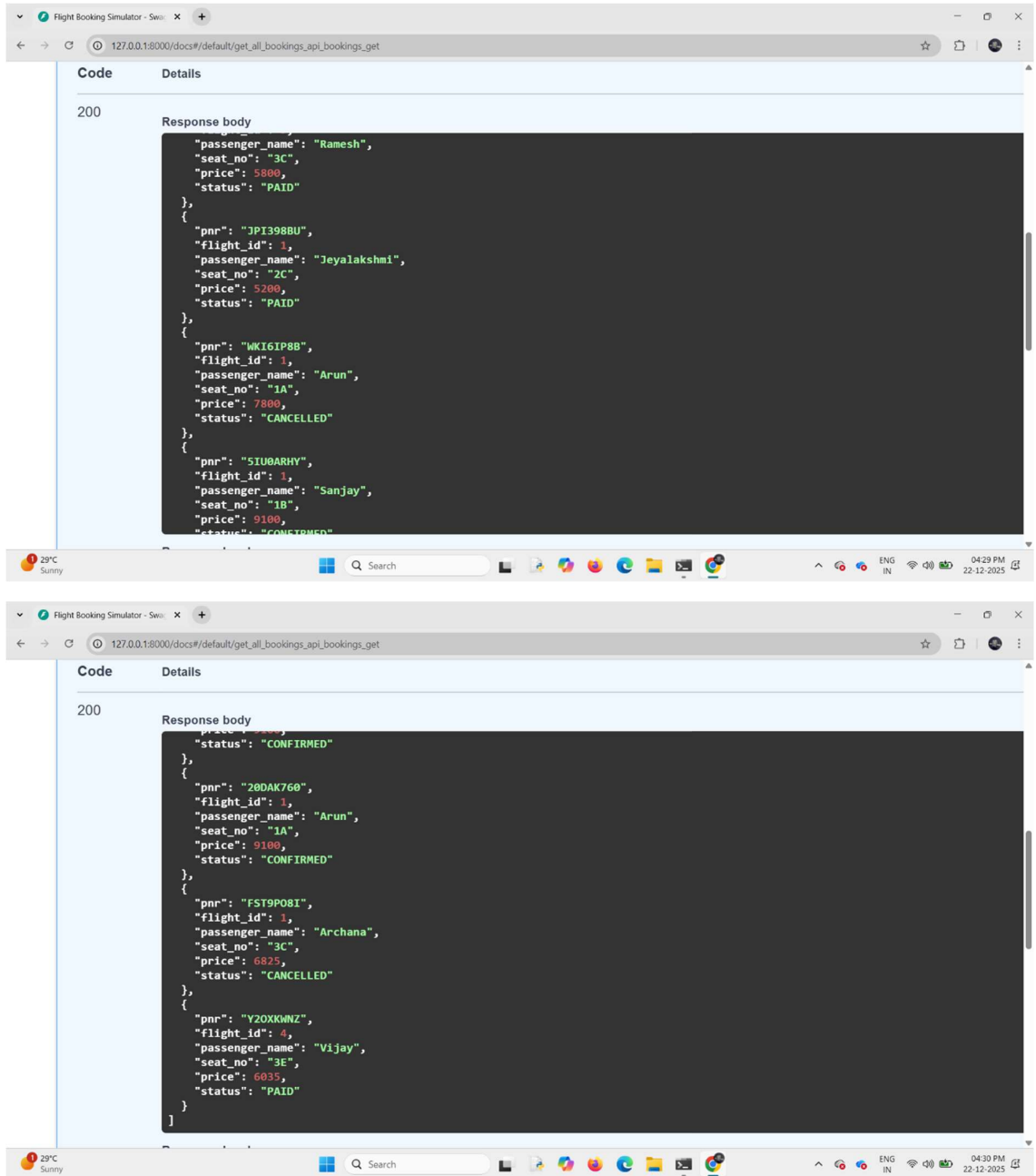
Code Details

200

Response body

```
{
  "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",
  "status": "CONFIRMED"
}
```

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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 [7220] using StatReload
INFO: Started server 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/Y20XKWNZ/pay HTTP/1.1" 200 OK
INFO: 127.0.0.1:63851 - "DELETE /api/bookings/WKI61P8B HTTP/1.1" 200 OK
INFO: 127.0.0.1:50759 - "DELETE /api/bookings/WKI61P8B HTTP/1.1" 200 OK
INFO: 127.0.0.1:61140 - "GET /api/bookings/Y20XKWNZ HTTP/1.1" 200 OK
INFO: 127.0.0.1:58987 - "GET /api/bookings/Y20XKW HTTP/1.1" 404 Not Found
INFO: 127.0.0.1:62226 - "GET /api/bookings HTTP/1.1" 200 OK
```