

TestCases Implemented in project

1.POST /api/v1.0/flight/airline/inventory/add

Test ID	Type	Description	Expected Result
1	Positive	Successfully add a valid flight inventory	200 OK
2	Negative	Attempt to add a flight with missing required fields	400 Bad Request
3	Negative	Attempt to add a flight with invalid JSON fields	400 Bad Request

2.POST /api/v1.0/flight/search

Test ID	Type	Description	Expected Result
4	Positive	Search for a flight with valid 'from', 'to', 'date'	200 OK
5	Negative	Missing required field (validation fails)	400 Bad Request
6	Edge Case	Search returns empty result list	200 OK (empty list)

3.POST /api/v1.0/flight/booking/{flightId}

Test ID	Type	Description	Expected Result
7	Positive	Successful booking of 1 seat	201 OK + PNR
8	Positive	Successful booking with multiple seats	200 OK
9	Negative	Flight ID does not	400 Bad Request

		exist	
10	Negative	Missing required booking fields	400 Bad Request
11	Negative	Invalid email format	400 Bad Request
12	Negative	Seats = 0 or negative	400 Bad Request
13	Negative	More seats than available	400 Bad Request
14	Negative	Booking a flight in the past	400 Bad Request
15	Edge Case	Booking succeeds for last seat	200 OK

4.GET /api/v1.0/flight/ticket/{pnr}

Test ID	Type	Description	Expected Result
16	Positive	Retrieve ticket using valid PNR	200 OK
17	Negative	PNR does not exist	404 Not Found

5.GET /api/v1.0/flight/booking/history/{emailId}

Test ID	Type	Description	Expected Result
18	Positive	Retrieve multiple booking records	200 OK
19	Positive	Retrieve single booking record	200 OK
20	Positive	Retrieve empty history	200 OK (empty list)

6.DELETE /api/v1.0/flight/booking/cancel/{pnr}

Test ID	Type	Description	Expected Result
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21	Positive	Successfully cancel booking	200 OK
22	Negative	PNR does not exist	400 Bad Request
23	Negative	Booking already cancelled	400 Bad Request
24	Edge Case	Cancel < 24 hrs before flight	400 Bad Request

7.Global Exception Handling Tests

Test ID	Type	Description	Expected Result
25	Negative	IllegalArgumentException handled globally	400 Bad Request
26	Negative	Validation error handled globally	400 Bad Request