Backend API Testing Documentation

Project:ProjectRoamAura

Endpoint:localhost:8080/generate-itinerary

Environment:POSTMAN

Tester:Mohammed **Date**: August 20, 2025

Overview

This document outlines the test cases for the itinerary generation endpoint. It verifies correct behavior under various input conditions, including valid requests, edge cases, and error handling.

✓ Test Case Table

Test ID	Scenario	Input	Expected Output	Actual Output	Status	Notes
BN D 001	Initializing Backend	Commands Provided by Backend Team	Server to run on localhost:8080	∨	Pass	Running Flawless ly
BN D 002	API Testing: /health	none	"OK"	∨	Pass	None
BN D 003	API Testing : /api/itineraries/gene rate	"destination": "Malaysia", // required "days": 1,	{ "itineraryId": 2, "message": "Itinerary loaded", "destination": "Malaysia", "startDate": "2025- 08-20", "endDate": "2025- 08-25", "activities": [{ "name": "Welcome walk + Views", "type": Relaxed, "location": "Malaysia", "price": 500.0, "rating": null, "durationMinut es": 90, "dayPlanned": 1	{ "itineraryId": 2, "message": "Itinerary loaded", "destination": "Malaysia", "startDate": "2025-08-20", "endDate": "2025-08-25", "activities": [{	Partiall y Passed	Needs validatio n and fixing null errors

```
"travelStyle":
                                                          <mark>"price":</mark>
"restDay"
                                                  0.0,
                        ],
// optional
                                                          <mark>"rating":</mark>
                        "itineraryDays": [
                                                  null,
                               "dayNumber":
                                                  "durationMinute
                     1,
                                                  s": 90,
                             "restDay": true,
                             "notes": null
                                                  "dayPlanned": 1
                        ]
                                                    ],
                                                  "itineraryDays":
                                                  "dayNumber":
                                                  1,
                                                  "restDay": false,
                                                           "notes":
                                                  null
                                                    ]
```

```
Sample Request Payload

"destination": "Dubai",
"days": 3,
"startDate": "20-08-2025",
"endDate": "23-08-2025",
"interests": ["shopping", "sightseeing"],
"budget": 500,
"travelStyle": "luxury"
```

```
Sample Response (Truncated)

"itineraryId": 3,

"message": "Itinerary loaded",

"destination": "Dubai",

"startDate": "2025-08-20",
```

```
"endDate": "2025-08-23",
"activities": [
  {
     "name": "Welcome walk + shopping, sightseeing",
     "type": null,
     "location": "Dubai",
     "price": 0.0,
     "rating": null,
     "durationMinutes": 90,
     "dayPlanned": 1
],
"itineraryDays": [
  {
     "dayNumber": 1,
     "restDay": false,
     "notes": null
```

Bugs & Issues

Bug ID	Description	Severity	Status	Notes
B01	Null Values in "type" "rating" and "Price"	Medium	Open	Evaluate issues

- Suggested Fix for B01
- Backend Mapper or Generator should ensure:
 - \circ type: defaults to "general" if missing
 - o rating: defaults to null or 0.0 if not available
 - o price: defaults to 0 or "unknown" if not specified