

API Integration – UAT Scenarios

Objective: To validate that the API integration between the Travel Portal and Supplier (e.g., Amadeus) functions correctly, ensuring accurate, complete, and timely responses.

Test Case ID	Scenario	Precondition	Steps	Expected Result
UAT_API_01	Successful API Response	Valid endpoint and API key	1. Send API request with valid parameters. 2. Receive response.	Response (JSON/XML) contains correct data (e.g., flight details, price, availability).
UAT_API_02	Timeout Handling	API SLA defined as 10s	1. Send API request. 2. Simulate delay > 10s.	System retries once, then logs error 'Timeout' and returns a fallback response or status.
UAT_API_03	Invalid Credentials	Invalid API key	1. Send API request with wrong credentials.	System returns 401 Unauthorized, logs error.
UAT_API_04	Price Mismatch	Backend reference data available	1. Trigger booking request. 2. Compare API response price vs. backend.	System highlights mismatch for review (e.g., 'Price discrepancy detected').
UAT_API_05	Missing Fields	API returns incomplete JSON	1. Send request. 2. Response missing 'currency' field.	Error logged 'Missing Currency field'. System may default to a configured currency.
UAT_API_06	Booking Confirmation	Valid booking flow	1. Send booking request via API. 2. Wait for confirmation.	System generates booking ID, status = Confirmed.
UAT_API_07	Booking Failure	Invalid parameters sent	1. Send booking request with invalid data.	System responds with 'Booking Failed' and error details.
UAT_API_08	Cancellation API	Existing booking ID available	1. Send cancellation request. 2. Receive cancellation response.	System updates booking status = Cancelled.
UAT_API_09	Data Logging & Reports	Logging enabled	1. Execute multiple API calls.	System logs all requests/responses for audit.

- Business Value:
- Ensures seamless integration with suppliers.
 - Prevents revenue leakage from mismatched prices.
 - Improves customer experience by reducing booking errors.
 - Provides audit trail for compliance and governance.