**Itinerary Logic Blueprint**

**Inputs:**

|  |  |  |
| --- | --- | --- |
| **input** | **Source** | **Type** |
| Origin | User Input | String |
| Destination | User Input | String |
| Departure\_Date | User Input | Date (DD/MM/YY) |
| Return\_Date | User Input | Date (DD/MM/YY) |
| Budget | User Input | Int |
| Travel Style | User Profile | String Enum |
| Interests | User Profile | String Array/List |
| Flight Data | API | Objects Array/List |
| Hotel Data | API | Objects Array/List |
| Activities Data | API | Objects Array/List |

**Pacing Rules\*:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Rule** | **Relaxed** | **Balanced** | **Fast-paced** |
| Max Activities / Day | 2 | 3 | 4+ |
| Rest Day Frequency | Every R2-3 days | Every 4-5 days | Optional Only |
| Activity Duration Limit (total for all activities) | 4-5hrs | 6-7hrs | 8-10hrs |
| Budget Split\*\* | More on hotel & food | Balanced | More on activities |

**\*Basic pacing rules implementation on github**

**\*\*budget split will be implemented into basic pacing rules**

**Output Structure (JSON):**

[

{

"day": 1,

"date": "2025-08-15",

"restDay": false,

"activities": [

{ "name": "Louvre Museum", "type": "culture", "start": "10:00", "duration": "3h", "cost": 20 },

{ "name": "Lunch at Le Café", "type": "food", "start": "13:30", "duration": "1h", "cost": 15 }

],

"totalCost": 35

}

]