Trip Service API Documentation

Overview

The Trip Service provides endpoints for managing trip-related functionalities, such as trip planning, recommendations, and feedback.

Endpoints

Plan Trip [POST /api/trip/plan]

Plan a trip based on user preferences and location data.

Request

```
POST /api/trip/plan
Content-Type: application/json

{
  "userId": "user123",
  "destination": "Paris, France",
  "startDate": "2024-05-15",
  "endDate": "2024-05-20",
  "budget": 1500
}
```

- `userId`: (Required) The ID of the user planning the trip.
- `destination`: (Required) The destination for the trip.
- `startDate`: (Required) The start date of the trip (YYYY-MM-DD).
- `endDate`: (Required) The end date of the trip (YYYY-MM-DD).
- `budget`: (Optional) The budget for the trip (in USD).

Response

Upon successful trip planning request, the server responds with a status code of `200 OK` and returns the trip itinerary.

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "itinerary": {
    "destination": "Paris, France",
```

```
    "startDate": "2024-05-15",
    "endDate": "2024-05-20",
    "activities": [
      {
        "name": "Eiffel Tower Tour",
        "date": "2024-05-16",
        "time": "10:00",
        "duration": "2 hours"
      },
      {
        "name": "Louvre Museum Visit",
        "date": "2024-05-17",
        "time": "09:00",
        "duration": "3 hours"
      }
    ]
  }
}
```

Get Recommendations [GET /api/trip/recommendations]

Get recommendations for destinations, activities, and itineraries based on user preferences and historical data.

Request

```
GET /api/trip/recommendations?userId=user123&budget=2000
```

- `userId`: (Required) The ID of the user for whom recommendations are requested.
- `budget`: (Optional) The budget available for the trip (in USD).

Response

Upon successful recommendation request, the server responds with a status code of `200 OK` and returns a list of recommended destinations, activities, and itineraries.

```
HTTP/1.1 200 OK
Content-Type: application/json

{
  "destinations": [
    {
      "name": "Rome, Italy",
      "description": "Explore ancient ruins and Renaissance art."
    },
```

```
      {
        "name": "Tokyo, Japan",
        "description": "Experience vibrant culture and modern technology."
      }
    ],
    "activities": [
      {
        "name": "Colosseum Guided Tour",
        "destination": "Rome, Italy",
        "duration": "3 hours"
      },
      {
        "name": "Tsukiji Fish Market Visit",
        "destination": "Tokyo, Japan",
        "duration": "2 hours"
      }
    ],
    "itineraries": [
      {
        "destination": "Rome, Italy",
        "startDate": "2024-06-10",
        "endDate": "2024-06-15"
      },
      {
        "destination": "Tokyo, Japan",
        "startDate": "2024-07-01",
        "endDate": "2024-07-07"
      }
    ]
}
```

Provide Feedback [POST /api/trip/feedback]

Provide feedback on trip plans and recommended destinations.

Request

```
POST /api/trip/feedback
Content-Type: application/json

{
  "userId": "user123",
  "tripId": "trip456",
  "rating": 4,
  "comment": "Great trip overall. Enjoyed the activities and accommodations."
}
```

- `userId`: (Required) The ID of the user providing feedback.

- `tripId`: (Required) The ID of the trip for which feedback is provided.

- `rating`: (Required) The rating provided by the user (1 to 5, with 5 being the highest).

- `comment`: (Optional) Additional comments or feedback provided by the user.

Response

Upon successful feedback submission, the server responds with a status code of `204 No Content`.

```
HTTP/1.1 204 No Content
Content-Length: 0
```