Tourism Management System

API Documentation

The **Tourism Management System (TMS)** is a web-based application designed to manage destinations, tour packages, bookings, payments, vouchers, guides, and feedback. Below is the API documentation to interface with this system.

Base URL

http://localhost:8080/api/v1

Account Register

POST /auth/register

Request Body

```
{

  "fullName": "Roopika Sree S",

  "email": "roopikasree28@example.com",

  "password": "Password123",

  "phone": "+911234567890",

  "role": "USER" or "ADMIN"

}
```

Response

```
{

  "id": 1,

  "fullName": " Roopika Sree S ",

  "email": " roopikasree28@example.com ",

  "role": "USER",

  "createdAt": "2026-01-13T12:00:00Z"

}
```

Status Codes

- **201 Created** – User registered successfully

- **400 Bad Request** – Invalid input

- **409 Conflict** – Email already exists

Login

POST /auth/login

Request Body

```
{

  "email": " roopikasree28@example.com ",

  "password": " Password123"

}
```

Response

```
{

  "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6..."

}
```

Status Codes

- **200 OK** – Login successful, JWT issued

- **401 Unauthorized** – Invalid credentials

Header for protected endpoints: Authorization: Bearer <token>

Forgot Password (Initiate)

POST /auth/forgot-password

Purpose: User provides email; system generates a **reset token**

Request Body

```
{

  "email": "john.doe@example.com"

}
```

Response (Success)

```
{

  "message": "Email exists"

  "newToken": "872391"

}
```

Response (Failure)

```
{

  "message": "Email doesn't exists."

}
```

Status Codes

200 OK – Token generated and sent successfully

400 Bad Request – Invalid input (format)

Reset Password – Complete

POST /auth/reset-password

Request Body

```
{

  "email": "john.doe@example.com",

  "token": "f6e9a7b0-1fd8-4d2b-9e6a-6c86bb2b2c3c",

  "newPassword": "N3wStrongP@ss!"

}
```

Response (Success)

```
{

"message": "Password has been reset successfully."

}
```

Response (Failure)

```
{

"message": " Invalid Token "

}
```

Status Codes

200 OK – Password reset successfully

401 Unauthorized – Invalid token

Change Current Password

PUT /auth/change-password

Request Body

```
{

  "email": "john.doe@example.com",

  "currentPassword": "OldStrongP@ss1",

  "newPassword": "N3wStrongP@ss!"

}
```

Response (Success)

```
{

  "message": "Password changed successfully."

}
```

Response (Failure)

```
{

  "message": "Current password is incorrect."

}
```

Status Codes

- **200 OK** – Password updated successfully

- **400 Bad Request** – New password does not meet policy

- **403 Forbidden** – Current password incorrect

List Accounts by Role

GET /accounts/{role}

Request Body

None

Response

```
[
  {
   "id": 1,
   "fullName": "Roopika Sree S",
   "email": "roopikasree28@example.com",
   "phone": "+911234567890",
   "role": "USER",
   "isActive": true,
   "createdAt": "2026-01-13T12:00:00Z"
  },
  {
   "id": 2,
```

```
    "fullName": "John Doe",

    "email": "john.doe@example.com",

    "phone": "+911234567891",

    "role": "USER",

    "isActive": true,

    "createdAt": "2026-01-13T12:05:00Z"

  }

]
```

Status Codes

- **200 OK** – Accounts retrieved successfully
- **404 Not Found** – No accounts found for the given role

Create Destination (Admin)

POST /destinations

Request Body

```
{

  "name": "Coorg",

  "country": "India",

  "city": "Madikeri",

  "description": "Coffee plantations and waterfalls",

  "highlights": ["Abbey Falls", "Raja's Seat"],

  "images": ["https://.../coorg.jpg"],

  "isActive": true

}
```

Response

```
{

  "id": 11,

  "name": "Coorg",

  "country": "India",

  "city": "Madikeri",

  "description": "Coffee plantations and waterfalls",

  "highlights": ["Abbey Falls", "Raja's Seat"],

  "images": ["https://.../coorg.jpg"],

  "isActive": true,

  "createdAt": "2026-01-13T12:05:00Z"

}
```

Status Codes

- **201 Created** – Destination created

- **400 Bad Request** – Missing required fields

- **409 Conflict** – Duplicate destination

List Destinations

GET /destinations

Request Body

None

Response

```
[
  {
    "id": 10,
    "name": "Ooty",
    "country": "India",
    "city": "Udhagamandalam",
    "description": "Hill station with tea gardens",
    "highlights": ["Tea gardens", "Botanical Garden"],
    "images": ["https://.../ooty.jpg"],
    "isActive": true,
    "createdAt": "2026-01-10T09:30:00Z"
  }
]
```

Status Codes

- **200 OK** – List returned

Get Destination by Id/Name/Country/City/Active Status

- **GET** /destinations/{id}
- **GET** /destinations/{name}
- **GET** /destinations/{country}
- **GET** /destinations/{city}

o **GET** /destinations/{isActive}

Request Body

None

Response

```
[
{
  "id": 11,
  "name": "Coorg",
  "country": "India",
  "city": "Madikeri",
  "description": "Coffee plantations and waterfalls",
  "highlights": ["Abbey Falls", "Raja's Seat"],
  "images": ["https://.../coorg.jpg"],
  "isActive": true,
  "createdAt": "2026-01-13T12:05:00Z"
}
]
```

Status Codes

- **200 OK** – Destination found

- **404 Not Found** – Invalid input

Update Destination (Admin)

PUT /destinations/{id}

Request Body

```
{

  "name": "Coorg",

  "country": "India",

  "city": "Madikeri",

  "description": "Updated description: Scenic coffee plantations and waterfalls",

  "highlights": ["Abbey Falls", "Raja's Seat", "Coffee Museum"],

  "images": ["https://.../coorg-new.jpg"],

  "isActive": true

}
```

Response (Success)

```
{

  "id": 11,

  "name": "Coorg",

  "country": "India",

  "city": "Madikeri",

  "description": "Updated description: Scenic coffee plantations and waterfalls",

  "highlights": ["Abbey Falls", "Raja's Seat", "Coffee Museum"],

  "images": ["https://.../coorg-new.jpg"],
```

"isActive": true,

"updatedAt": "2026-01-13T14:30:00Z"

}

Response (Failure)

{

"message": "Id doesn't exists."

}

Status Codes

- **200 OK** – Destination updated successfully

- **400 Bad Request** – Invalid input (e.g., missing required fields)

- **404 Not Found** – Destination not found

Delete Destination by Id/Active Status (Admin)

- o **DELETE** /destinations/{id}
- o **DELETE** /destinations/{isActive}

Request Body

None

Response (Success)

{

"message": "Destination deleted successfully."

}

Response (Failure)

{

  "message": "Destination Id not found."

}

Status Codes

- **204 No Content** – Destination deleted successfully

- **404 Not Found** – Destination ID does not exist

Create Tour Package (Admin)

POST /packages

Request Body

{

  "title": "Ooty Weekend",

  "destinationId": 10,

  "description": "2-day Ooty getaway",

  "durationDays": 2,

  "basePrice": 4999.0,

  "capacity": 20,

  "includes": ["Hotel", "Breakfast"],

  "excludes": ["Lunch"],

  "ageEligibility": "FAMILY",

```
  "isActive": true

}
```

Response

```
{

  "id": 101,

  "title": "Ooty Weekend",

  "destinationId": 10,

  "description": "2-day Ooty getaway",

  "durationDays": 2,

  "basePrice": 4999.0,

  "capacity": 20,

  "includes": ["Hotel", "Breakfast"],

  "excludes": ["Lunch"],

  "ageEligibility": "FAMILY",

  "isActive": true,

  "createdAt": "2026-01-13T12:10:00Z"

}
```

Status Codes

- **201 Created** – Package created

- **400 Bad Request** – Invalid duration/price/capacity

- **404 Not Found** – Destination does not exist

List Tour Packages

GET /packages

Request Body

None

Response

```json
[
{
 "id": 101,
 "title": "Ooty Weekend",
 "destinationId": 10,
 "description": "2-day Ooty getaway",
 "durationDays": 2,
 "basePrice": 4999.0,
 "capacity": 20,
 "includes": ["Hotel", "Breakfast"],
 "excludes": ["Lunch"],
 "ageEligibility": "FAMILY",
 "isActive": true,
 "createdAt": "2026-01-13T12:10:00Z"
}
]
```

Status Codes

- **200 OK** – List returned

Get Tour Package by Id/Capacity/Duration days/Age Eligibility

- ○ **GET** /packages/{id}
- ○ **GET** /packages/{capacity}
- ○ **GET** /packages/{durationDays}
- ○ **GET** /packages/{ageEligibility}

Request Body

None

Response

```
{

  "id": 101,

  "title": "Ooty Weekend",

  "destinationId": 10,

  "description": "2-day Ooty getaway",

  "durationDays": 2,

  "basePrice": 4999.0,

  "capacity": 20,

  "includes": ["Hotel", "Breakfast"],

  "excludes": ["Lunch"],
```

"ageEligibility": "FAMILY",

  "isActive": true,

  "createdAt": "2026-01-13T12:10:00Z"

}

Status Codes

- **200 OK** – Package found

- **404 Not Found** – Invalid input

Update Tour Package (Admin)

PUT /packages/{id}

Request Body

{

  "title": "Ooty Weekend Deluxe",

  "destinationId": 10,

  "description": "3-day Ooty getaway with deluxe stay",

  "durationDays": 3,

  "basePrice": 6999.0,

  "capacity": 25,

  "includes": ["Hotel", "Breakfast", "Dinner"],

  "excludes": ["Lunch"],

  "ageEligibility": "FAMILY",

```
  "isActive": true

}
```

Response

```
{

  "id": 101,

  "title": "Ooty Weekend Deluxe",

  "destinationId": 10,

  "description": "3-day Ooty getaway with deluxe stay",

  "durationDays": 3,

  "basePrice": 6999.0,

  "capacity": 25,

  "includes": ["Hotel", "Breakfast", "Dinner"],

  "excludes": ["Lunch"],

  "ageEligibility": "FAMILY",

  "isActive": true,

  "updatedAt": "2026-01-13T14:45:00Z"

}
```

Status Codes

- **200 OK** – Package updated successfully

- **400 Bad Request** – Invalid input (e.g., negative price or duration)

- **404 Not Found** – Package not found

Delete Tour Package (Admin)

DELETE /packages/{id}

Request Body

None

Response

```
{

  "message": "Tour package deleted successfully."

}
```

Status Codes

- **204 No Content** – Package deleted successfully (or 200 OK with message)

- **404 Not Found** – Package ID does not exist

Add Trip Plan to a Package (Admin)

POST /packages/{id}/trip-plans

Request Body

```
{

  "dayNumber": 1,

  "title": "Arrival & Local Sightseeing",

  "description": "Check-in, Botanical Garden, Ooty Lake"

}
```

Response

```json
{

  "id": 301,

  "tourPackageId": 101,

  "dayNumber": 1,

  "title": "Arrival & Local Sightseeing",

  "description": "Check-in, Botanical Garden, Ooty Lake",

  "createdAt": "2026-01-13T12:12:00Z"

}
```

Status Codes

- **201 Created** – Trip plan added

- **400 Bad Request** – Non-sequential or missing fields

- **404 Not Found** – Package id invalid

Get Trip Plans for a Package

GET /packages/{id}/trip-plans

Request Body

None

Response

```json
[

  {

    "id": 301,

    "tourPackageId": 101,

    "dayNumber": 1,
```

```
    "title": "Arrival & Local Sightseeing",

    "description": "Check-in, Botanical Garden, Ooty Lake",

    "createdAt": "2026-01-13T12:12:00Z"

  },

  {

    "id": 302,

    "tourPackageId": 101,

    "dayNumber": 2,

    "title": "Coonoor Visit",

    "description": "Dolphin's Nose, Tea Factory tour",

    "createdAt": "2026-01-13T12:20:00Z"

  }

]
```

Status Codes

- **200 OK** – Trip plans listed
- **404 Not Found** – Package id invalid

Update Trip Plan (Admin)

PUT /packages/{packageId}/trip-plans/{tripPlanId}

Request Body

```
{

  "dayNumber": 2,

  "title": "Coonoor Visit (Updated)",

  "description": "Dolphin's Nose, Tea Factory tour, Sim's Park"

}
```

Response

```
{

  "id": 302,
```

```
"tourPackageId": 101,

"dayNumber": 2,

"title": "Coonoor Visit (Updated)",

"description": "Dolphin's Nose, Tea Factory tour, Sim's Park",

"updatedAt": "2026-01-13T14:50:00Z"

}
```

Status Codes

- **200 OK** – Trip plan updated
- **400 Bad Request** – Non-sequential or missing fields
- **404 Not Found** – Package id or tripPlanId invalid

Delete Trip Plan (Admin)

DELETE /packages/{packageId}/trip-plans/{tripPlanId}

Request Body

None

Response (Success)

```
{

  "message": "Trip plan deleted successfully."

}
```

Status Codes

- **204 No Content** – Trip plan deleted (or **200 OK** with message)
- **404 Not Found** – Package id or tripPlanId invalid

Create Booking (Admin)

POST /bookings

Request Body

```
{
```

```
  "accountId": 1,

  "tourPackageId": 101,

  "startDate": "2026-02-10",

  "endDate": "2026-02-12",

  "travellersCount": 2,

  "guideRequested": true

}
```

Response

```
{

  "id": 5001,

  "accountId": 1,

  "tourPackageId": 101,

  "startDate": "2026-02-10",

  "endDate": "2026-02-12",

  "travellersCount": 2,

  "status": "PENDING",

  "guideRequested": true,

  "subtotalAmount": 9998.0,

  "discountAmount": 0.0,

  "totalAmount": 9998.0,

  "createdAt": "2026-01-13T12:15:00Z"

}
```

Status Codes

- **201 Created** – Booking created

- **400 Bad Request** – Invalid dates or travellersCount

- **409 Conflict** – Capacity full

Add Traveller to Booking

POST /bookings/{id}/travellers

Request Body

{

  "fullName": "Jane Doe",

  "age": 28,

  "gender": "Female",

  "relationship": "Friend",

  "specialRequirements": "Vegetarian meals"

}

Response

{

  "id": 7001,

  "bookingId": 5001,

  "fullName": "Jane Doe",

  "age": 28,

```
  "gender": "Female",

  "relationship": "Friend",

  "specialRequirements": "Vegetarian meals",

  "createdAt": "2026-01-13T12:17:00Z"

}
```

Status Codes

- **201 Created** – Traveller added

- **400 Bad Request** – Missing fields or invalid age

- **404 Not Found** – Booking id invalid

Get Traveller Details

GET /bookings/{bookingId}/travellers

Request Body

None

Response

```
[

  {

    "id": 7001,

    "bookingId": 5001,

    "fullName": "Jane Doe",

    "age": 28,
```

    "gender": "Female",

    "relationship": "Friend",

    "specialRequirements": "Vegetarian meals",

    "createdAt": "2026-01-13T12:17:00Z"

  },

  {

    "id": 7002,

    "bookingId": 5001,

    "fullName": "John Doe",

    "age": 30,

    "gender": "Male",

    "relationship": "Friend",

    "specialRequirements": null,

    "createdAt": "2026-01-13T12:18:00Z"

  }

]

Status Codes

- **200 OK** – Travellers retrieved successfully

- **404 Not Found** – Booking ID invalid

Create Guide

POST /guides

Request Body

```json
{

 "fullName": "R. Kumar",

 "languages": ["English", "Tamil"],

 "yearsOfExperience": 5,

 "availabilityStatus": "AVAILABLE",   // or "BUSY"

 "contactPhone": "+91-9876543210",

 "isActive": true

}
```

Response

```json
{

 "id": 2001,

 "fullName": "R. Kumar",

 "languages": ["English", "Tamil"],

 "yearsOfExperience": 5,

 "availabilityStatus": "AVAILABLE",

 "contactPhone": "+91-9876543210",

 "isActive": true,

 "createdAt": "2026-01-13T12:30:00Z"
```

}

Status Codes

- **201 Created** – Guide created successfully

- **400 Bad Request** – Missing/invalid fields (e.g., negative experience, empty name)

Display Guides

GET /guides

Request Body

None

Response

```
[
  {
    "id": 2001,
    "fullName": "R. Kumar",
    "languages": ["English", "Tamil"],
    "yearsOfExperience": 5,
    "availabilityStatus": "AVAILABLE",
    "contactPhone": "+91-9876543210",
    "isActive": true,
    "createdAt": "2026-01-13T12:30:00Z"
  },
  {
    "id": 2002,
    "fullName": "S. Priya",
    "languages": ["Tamil", "Hindi"],
    "yearsOfExperience": 3,
```

```
    "availabilityStatus": "BUSY",

    "contactPhone": "+91-9123456780",

    "isActive": true,

    "createdAt": "2026-01-13T12:35:00Z"

  }

]
```

Status Codes

- **200 OK** – Guides retrieved successfully
- **404 Not Found** – No guides available (optional)

Update Guide

PUT /guides/{id}

Request Body

```
{

  "fullName": "R. Kumar",

  "languages": ["English", "Tamil", "Hindi"],

  "yearsOfExperience": 6,

  "availabilityStatus": "BUSY",   // or "AVAILABLE"

  "contactPhone": "+91-9876543210",

  "isActive": true

}
```

Response

```
{

  "id": 2001,

  "fullName": "R. Kumar",

  "languages": ["English", "Tamil", "Hindi"],

  "yearsOfExperience": 6,

  "availabilityStatus": "BUSY",
```

```
  "contactPhone": "+91-9876543210",
  "isActive": true,
  "updatedAt": "2026-01-13T14:55:00Z"
}
```

Status Codes

- **200 OK** – Guide updated successfully
- **400 Bad Request** – Invalid input (e.g., negative experience, empty name)
- **404 Not Found** – Guide ID does not exist

Delete Guide

DELETE /guides/{id}

Request Body

None

Response

```
{
  "message": "Guide deleted successfully."
}
```

Status Codes

- **204 No Content** – Guide deleted successfully (or **200 OK** with message)
- **404 Not Found** – Guide ID does not exist
- **403 Forbidden** – User not authorized

Apply Voucher to Booking

POST /bookings/{id}/apply-voucher

Request Body

```
{
  "code": "NEWYEAR10"
```

}

Response

{

  "bookingId": 5001,

  "appliedVoucher": "NEWYEAR10",

  "previousTotal": 9998.0,

  "discountAmount": 999.8,

  "newTotal": 8998.2

}

Status Codes

- **200 OK** – Voucher applied

- **400 Bad Request** – Voucher invalid/expired/exceeds limits

- **404 Not Found** – Booking id invalid

List Bookings by Account ID

GET /bookings/{accountId}

Request Body

None

Response

[

  {

"id": 5001,

"accountId": 1,

"tourPackageId": 101,

"startDate": "2026-02-10",

"endDate": "2026-02-12",

"travellersCount": 2,

"status": "CONFIRMED",

"guideRequested": true,

"guideId": 2001,

"assignedGuide": {

  "id": 2001,

  "fullName": "R. Kumar",

  "languages": ["English", "Tamil"],

  "yearsOfExperience": 5

},

"travellers": [

  {

    "id": 7001,

    "fullName": "Jane Doe",

    "age": 28,

    "gender": "Female",

    "relationship": "Friend"

```json
      },
      {
        "id": 7002,
        "fullName": "John Doe",
        "age": 30,
        "gender": "Male",
        "relationship": "Friend"
      }
    ],
    "pricing": {
      "subtotalAmount": 9998.0,
      "discountAmount": 999.8,
      "totalAmount": 8998.2
    },
    "vouchers": ["NEWYEAR10"],
    "createdAt": "2026-01-13T12:15:00Z",
    "updatedAt": "2026-01-13T13:05:00Z"
  },
  {
    "id": 5002,
    "accountId": 1,
    "tourPackageId": 102,
```

    "startDate": "2026-03-01",

    "endDate": "2026-03-03",

    "travellersCount": 3,

    "status": "PENDING",

    "guideRequested": false,

    "travellers": [],

    "pricing": {

      "subtotalAmount": 14997.0,

      "discountAmount": 0.0,

      "totalAmount": 14997.0

    },

    "vouchers": [],

    "createdAt": "2026-01-20T10:00:00Z"

  }

]

Status Codes

- **200 OK** – Bookings retrieved successfully

- **400 Bad Request** – Missing or invalid accountId

- **404 Not Found** – Account not found

Update Booking Status (Admin)

PUT /bookings/{id}

Request Body

{

  "status": "CONFIRMED" // or "CANCELLED"

}

Response

{

  "id": 5001,

  "status": "CONFIRMED",

  "updatedAt": "2026-01-13T12:20:00Z"

}

Status Codes

- **200 OK** – Status updated

- **400 Bad Request** – Invalid status

- **404 Not Found** – Booking id invalid

Initiate Payment

POST /payments

Request Body

{

```
  "bookingId": 5001,

  "provider": "Razorpay",

  "amount": 8998.2

}
```

Response

```
{

  "id": 9001,

  "bookingId": 5001,

  "provider": "Razorpay",

  "transactionRef": "pay_ABC123456",

  "amount": 8998.2,

  "status": "INITIATED",

  "createdAt": "2026-01-13T12:22:00Z"

}
```

Status Codes

- **201 Created** – Payment initiated

- **400 Bad Request** – Amount mismatch or unsupported currency

- **404 Not Found** – Booking id invalid

Get Payment Status

GET /payments/{id}

Request Body

None

Response

```
{
  "id": 9001,
  "bookingId": 5001,
  "provider": "Razorpay",
  "transactionRef": "pay_ABC123456",
  "amount": 8998.2,
  "status": "SUCCESS",
  "paidAt": "2026-01-13T12:23:10Z"
}
```

Status Codes

- **200 OK** – Payment found
- **404 Not Found** – Payment id invalid

Submit Feedback

POST /feedback

Request Body

```
{
  "bookingId": 5001,
```

```
  "accountId": 1,

  "rating": 5,

  "comments": "Fantastic trip and great guide!"

}
```

Response

```
{

  "id": 9501,

  "bookingId": 5001,

  "accountId": 1,

  "rating": 5,

  "comments": "Fantastic trip and great guide!",

  "isPublished": false,

  "createdAt": "2026-01-13T12:25:00Z"

}
```

Status Codes

- **201 Created** – Feedback submitted

- **400 Bad Request** – Rating out of range or missing fields

- **404 Not Found** – Booking/account invalid

List Feedback (Admin)

GET /feedback

Request Body

None

Response

```
[
  {
    "id": 9501,
    "bookingId": 5001,
    "accountId": 1,
    "destinationId": 10,
    "tourPackageId": 101,
    "rating": 5,
    "comments": "Fantastic trip and great guide!",
    "isPublished": true,
    "createdAt": "2026-01-13T12:25:00Z"
  }
]
```

Status Codes

- **200 OK** – List returned