

Wayfare Travel Planning API Documentation

Base URL: `https://api.wayfare.com`

Authentication: Bearer Token (JWT)

Content-Type: `application/json`

- Privacy System Implementation**

**** IMPORTANT**:** The backend has been updated with a comprehensive privacy system that affects route creation and retrieval. Please update your code accordingly.

**** Migration Required:****

1. Route Creation Changes:

```
// OLD - No privacy control
const route = {
  title: "My Trip",
  city: "Paris",
  start_date: "2025-06-01",
  end_date: "2025-06-07"
}

// NEW - Privacy control added
const route = {
  title: "My Trip",
  city: "Paris",
  start_date: "2025-06-01",
  end_date: "2025-06-07",
  is_public: false // NEW FIELD - Routes are PRIVATE by default
}
```

2. Response Schema Changes: // All route responses now include: {
"route_id": "...", "title": "...", // ... other fields ... "is_public": true, // NEW
FIELD in all route responses "stats": { ... } }

**3. Public Route Access Changes:**

// BEHAVIOR CHANGE: These endpoints now only return PUBLIC routes

GET /routes/public // Only shows is_public: true routes

GET /routes/search // Only searches is_public: true routes

// UNCHANGED: User routes still return all routes (public + private)

GET /routes/user // Shows all user's routes regardless of privacy

**** New Endpoints:****

```
// Toggle route privacy PATCH /routes/{route_id}/privacy?is_public=true
// Make public PATCH /routes/{route_id}/privacy?is_public=false // Make
private
// Advanced public route search GET /routes/search?q=Rome&city=Paris&sort_by=popularity
```

** Required Code Updates:**

1. ****Update route creation forms**** to include optional ``is_public`` checkbox
2. ****Handle ``is_public`` field**** in all route response parsers
3. ****Update route listing UI**** to show privacy status (lock icon for private routes)
4. ****Add privacy toggle buttons**** in route management interfaces
5. ****Test public route discovery**** to ensure only public routes appear

** Database Impact:**

- ****All existing routes**** automatically set to ``is_public: false`` (private)
- ****No data loss**** - all routes preserved with privacy protection
- ****Database migration**** completed automatically

**Configuration**

**Email Configuration**

- ****Location:**** ``backend/config/email.py``
- ****Development Mode:**** Email sending suppressed, codes printed to console
- ****Production Options:**** Gmail (App Password), Mailtrap, Outlook
- ****Verification Codes:**** 6-digit, 10-minute expiry, in-memory storage

To switch email providers:

1. Edit ``backend/config/email.py``
2. Change ``mail_config = your_chosen_config``
3. Update credentials and restart server

**User Management Endpoints**

**@POST /user/register**

It allows users to:

- Create a new user account
- Register with username, email, and personal information
- Automatically hash passwords and set default preferences

****Request Body:****

```
```json
{
 "username": "traveler123",
 "password": "securepass123",
 "email": "user@example.com",
 "first_name": "John",
 "last_name": "Doe"
}
```

**Response:**

```
{
 "message": "User registered successfully",
 "success": true,
 "user_id": "64a1b2c3d4e5f6789abcdef0"
}
```

---

#### **@POST /user/login**

It allows users to: - Authenticate with username and password - Receive access token for API authorization - Maintain secure session management

**Request Body:**

```
{
 "username": "traveler123",
 "password": "securepass123"
}
```

**Response:**

```
{
 "message": "User logged in successfully",
 "success": true,
 "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."
}
```

---

#### **@POST /user/addInfo**

**Requires Authentication**

It allows users to: - Add travel preferences and interests - Set budget and travel style preferences - Define home city for personalized recommendations

**Request Body:**

```
{
 "preferences": {
 "interests": ["museums", "architecture", "food"],
 "budget": "medium",
 "travel_style": "moderate"
 },
 "home_city": "New York"
}
```

**Response:**

```
{
 "message": "User information updated successfully",
 "success": true,
 "status_code": 200
}
```

---

**@GET /user/getCurrentUser**

**Requires Authentication**

It allows users to: - Retrieve current user profile information - Access personal preferences and settings - View account details and travel preferences

**Response:**

```
{
 "user_id": "64a1b2c3d4e5f6789abcdef0",
 "email": "user@example.com",
 "username": "traveler123",
 "name": "John",
 "surname": "Doe",
 "preferences": {
 "interests": ["museums", "architecture", "food"],
 "budget": "medium",
 "travel_style": "moderate"
 },
 "home_city": "New York"
}
```

---

**@POST /user/changePassword**

**Requires Authentication**

It allows users to: - Update account password securely - Verify current password before change - Ensure password confirmation matches

**Request Body:**

```
{
 "current_password": "oldpassword123",
 "new_password": "newpassword456",
 "confirm_password": "newpassword456"
}
```

**Response:**

```
{
 "message": "Password changed successfully",
 "success": true,
 "status_code": 200
}
```

---

**@DELETE /user/delete****Requires Authentication**

It allows users to: - Permanently delete their account - Remove all associated data and routes - Verify identity with password confirmation

**Request Body:**

```
{
 "password": "userpassword123"
}
```

**Response:**

```
{
 "message": "User account deleted successfully",
 "success": true,
 "status_code": 200
}
```

---

**@POST /user/sendVerification**

It allows users to: - Send verification code to email address - Start email verification process during registration - Receive 6-digit verification code valid for 10 minutes

**Request Body:**

```
{
 "email": "user@example.com"
}
```

**Response:**

```
{
 "success": true,
 "message": "Code sent successfully",
 "status_code": 200
}
```

---

**@POST /user/sendVerification/verifyCode**

It allows users to: - Verify email verification code - Complete email verification process - Validate 6-digit code within 10-minute expiry

**Request Body:**

```
{
 "verification_code": "123456"
}
```

**Response:**

```
{
 "success": true,
 "message": "Code verified successfully",
 "status_code": 200
}
```

**Error Responses:**

```
// Invalid code
{
 "detail": "Invalid verification code"
}

// Expired code (after 10 minutes)
{
 "detail": "Verification code has expired"
}
```

---

**Route Management Endpoints****@POST /route/create****Requires Authentication**

It allows users to: - Create a customized daily schedule of activities (linked to places) - Specify must-visit places with notes and preferences - Generate

AI-powered route recommendations based on travel style - Automatically store place images in activities during creation for optimal retrieval performance

**Request Body:**

```
{
 "title": "Trip to Rome",
 "city": "Rome",
 "start_date": "2025-06-01",
 "end_date": "2025-06-07",
 "category": "city_break",
 "season": "summer",
 "is_public": false,
 "must_visit": [
 {
 "place_id": "abc123",
 "place_name": "Colosseum",
 "address": "Rome",
 "notes": "Morning preferred",
 "source": "google",
 "coordinates": { "lat": 41.89, "lng": 12.49 }
 },
 {
 "place_name": "Hidden Bookstore",
 "notes": "TikTok place",
 "source": "user"
 }
],
 "days": [
 {
 "date": "2025-06-01",
 "activities": [
 {
 "place_id": "abc123",
 "place_name": "Colosseum",
 "time": "10:00",
 "notes": "Visit the Colosseum"
 }
]
 }
]
}
```

**Request Body Parameters:** - **title** (string, required): Route title/name - **city** (string, required): Destination city name - **start\_date** (string, required): Trip start date in YYYY-MM-DD format - **end\_date** (string, required): Trip end date in YYYY-MM-DD format - **category** (string, optional): Route cate-

gory (default: "city\_break") - **season** (string, optional): Travel season (auto-detected if not provided) - **is\_public** (boolean, optional): Route visibility - **false = private** (default), **true = public** - **must\_visit** (array, required): List of must-visit places with details

**Privacy Control:** - **Private Routes** (**is\_public**: false): Only visible to the creator via `/routes/user` - **Public Routes** (**is\_public**: true): Visible to all users via `/routes/public` and `/routes/search` - **Default:** All routes are **private** unless explicitly set to public

**Response:**

```
{
 "message": "Route created successfully",
 "success": true,
 "route_id": "string",
 "status_code": 200
}
```

---

**@GET /routes/user**

**Requires Authentication**

It allows users to: - Retrieve all routes created by the authenticated user - View route summaries and basic information  
- Access personal travel planning history - Get stored place images for each activity in the daily itinerary (images are stored during route creation for optimal performance)

**Response:**

```
{
 "success": true,
 "message": "User routes retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "route_id": "64a1b2c3d4e5f6789abcdef1",
 "user_id": "64a1b2c3d4e5f6789abcdef0",
 "title": "Trip to Rome",
 "city": "Rome",
 "country": "Italy",
 "start_date": "2025-06-01",
 "end_date": "2025-06-07",
 "budget": "medium",
 "travel_style": "moderate",
 "category": "city_break",

```



```

 "season": "summer",
 "stats": {
 "views_count": 5,
 "copies_count": 2,
 "likes_count": 8
 },
 "created_at": "2024-12-01T10:00:00Z",
 "updated_at": "2024-12-01T10:00:00Z"
 }
}

```

---

### @GET /routes/{route\_id}

#### Requires Authentication

It allows users to: - Retrieve detailed information for a specific route - Access complete daily schedules and activities - View all must-visit places and their details

**Path Parameters:** - route\_id (string): Unique identifier of the route

#### Response:

```

{
 "success": true,
 "message": "Route retrieved successfully",
 "status_code": 200,
 "data": {
 "route_id": "64a1b2c3d4e5f6789abcdef1",
 "user_id": "64a1b2c3d4e5f6789abcdef0",
 "title": "Trip to Rome",
 "city": "Rome",
 "country": "Italy",
 "start_date": "2025-06-01",
 "end_date": "2025-06-07",
 "budget": "medium",
 "travel_style": "moderate",
 "category": "city_break",
 "season": "summer",
 "is_public": false,
 "stats": {
 "views_count": 5,
 "copies_count": 2,
 "likes_count": 8
 },
 },
}

```

```

 "must_visit": [
 {
 "place_id": "abc123",
 "place_name": "Colosseum",
 "address": "Rome",
 "coordinates": { "lat": 41.89, "lng": 12.49 },
 "notes": "Morning preferred",
 "source": "google",
 "opening_hours": {
 "monday": "08:30-19:15",
 "tuesday": "08:30-19:15"
 }
 }
],
 "days": [
 {
 "date": "2025-06-01",
 "activities": [
 {
 "place_id": "abc123",
 "place_name": "Colosseum",
 "time": "10:00",
 "notes": "Visit the Colosseum",
 "image": "https://dynamic-media-cdn.tripadvisor.com/media/photo-o/15
 }
]
 }
],
 "created_at": "2024-12-01T10:00:00Z",
 "updated_at": "2024-12-01T10:00:00Z"
 }
}

```

---

### @PUT /routes/{route\_id}

#### Requires Authentication

It allows users to: - Update existing route information - Modify travel dates, destinations, or preferences - Add or remove must-visit places and activities

**Path Parameters:** - route\_id (string): Unique identifier of the route

#### Request Body:

```

{
 "title": "Updated Trip to Rome",

```

```

 "city": "Rome",
 "start_date": "2025-06-15",
 "end_date": "2025-06-20",
 "category": "cultural",
 "season": "summer",
 "must_visit": [
 {
 "place_name": "Vatican Museums",
 "notes": "Book tickets in advance",
 "source": "user"
 }
]
 }
}

```

**Response:**

```

{
 "message": "Route updated successfully",
 "success": true,
 "status_code": 200
}

```

---

## @DELETE /routes/{route\_id}

### Requires Authentication

It allows users to: - Permanently delete a specific route - Remove all associated activities and schedules - Clean up travel planning history

**Path Parameters:** - route\_id (string): Unique identifier of the route

**Response:**

```

{
 "message": "Route deleted successfully",
 "success": true,
 "status_code": 200
}

```

---

## @PATCH /routes/{route\_id}/privacy

### Requires Authentication Owner Only

It allows users to: - Toggle route privacy settings between public and private  
 - Control route visibility and discoverability - Manage sharing preferences for travel plans - Update privacy settings in real-time

**Path Parameters:** - `route_id` (string): Unique identifier of the route

**Query Parameters:** - `is_public` (boolean, required): **true** = make public, **false** = make private

**Request Examples:**

```
PATCH /routes/64a1b2c3d4e5f6789abcdef1/privacy?is_public=true # Make public
PATCH /routes/64a1b2c3d4e5f6789abcdef1/privacy?is_public=false # Make private
```

**Response:**

```
{
 "success": true,
 "message": "Route privacy updated to public",
 "status_code": 200
}
```

**Error Responses:**

```
// User doesn't own the route
{
 "success": false,
 "message": "Unauthorized: You can only modify your own routes",
 "status_code": 403
}

// Route not found
{
 "success": false,
 "message": "Route not found",
 "status_code": 404
}
```

**Privacy Effects:** - **Making Public:** Route becomes discoverable via `/routes/public` and `/routes/search` - **Making Private:** Route removed from public listings, only accessible to owner - **Ownership:** Users can only change privacy of their own routes

---

**@GET /routes/public**

**Requires Authentication**

It allows users to: - Browse **only public routes** shared by other users (excludes private routes) - Filter public routes by category, season, and budget - Discover travel inspiration and ideas from the community - Access routes with `is_public: true` setting only

**Query Parameters:** - **category** (string, optional): Filter by route category - **season** (string, optional): Filter by travel season  
- **budget** (string, optional): Filter by budget level - **limit** (int): Maximum number of routes to return (default: 10)

**Response:**

```
{
 "success": true,
 "message": "Public routes retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "route_id": "64a1b2c3d4e5f6789abcdef2",
 "user_id": "64a1b2c3d4e5f6789abcdef9",
 "title": "Rome in 5 Days",
 "city": "Rome",
 "country": "Italy",
 "category": "city_break",
 "season": "spring",
 "budget": "medium",
 "stats": {
 "views_count": 156,
 "copies_count": 23,
 "likes_count": 89
 }
 }
]
}
```

---

**@GET /routes/search**

**Requires Authentication**

It allows users to: - **Search only public routes** with advanced filtering options  
- Find routes by title/name, city, or country - Filter by category, season, budget, and travel style - Sort results by popularity, rating, recent, or alphabetically - Discover travel content through flexible search queries

**Query Parameters:** - **q** (string, optional): Search query for route title (minimum 2 characters) - **city** (string, optional): Filter by exact city name - **country** (string, optional): Filter by exact country name - **category** (string, optional): Filter by route category - **season** (string, optional): Filter by travel season - **budget** (string, optional): Filter by budget level - **travel\_style** (string, optional): Filter by travel style - **limit** (int, optional): Maximum results (default: 20, max: 50) - **sort\_by** (string, optional): Sort order - “popularity” (default),

“rating”, “recent”, “title”

#### Request Examples:

```
GET /routes/search?q=Rome&limit=10 # Search by title
GET /routes/search?city=Paris&sort_by=popularity # Search by city
GET /routes/search?country=Italy&budget=medium # Search by country + budget
GET /routes/search?q=cultural&city=Rome&travel_style=relaxed # Combined search
```

#### Response:

```
{
 "success": true,
 "message": "Found 3 public routes for: title containing 'Rome', budget 'medium'",
 "status_code": 200,
 "data": [
 {
 "route_id": "64a1b2c3d4e5f6789abcdef2",
 "user_id": "64a1b2c3d4e5f6789abcdef9",
 "title": "Rome in 5 Days",
 "city": "Rome",
 "country": "Italy",
 "category": "city_break",
 "season": "spring",
 "budget": "medium",
 "is_public": true,
 "stats": {
 "views_count": 156,
 "copies_count": 23,
 "likes_count": 89
 }
 }
]
}
```

**\*\* Search Features:** - Public Routes Only: Searches only routes with **is\_public: true** - Smart Messages: Response message shows what filters were applied - Flexible Sorting: Multiple sort options for different discovery needs - Exact Matching: City and country filters use exact matches - Text Search\*\*: Route title search supports partial matching

---

## Places Management Endpoints

@GET /places/city

Requires Authentication

It allows users to: - Retrieve all available places in a specific city - Access place details including coordinates and categories - Browse destinations for route planning

**Query Parameters:** - city (string): Name of the city to search places in

**Response:**

```
{
 "success": true,
 "message": "Places retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "place_id": "abc123",
 "name": "Colosseum",
 "address": "Piazza del Colosseo, 1, 00184 Roma RM, Italy",
 "coordinates": { "lat": 41.8902, "lng": 12.4922 },
 "category": "historical_site",
 "rating": 4.5,
 "price_level": 3,
 "opening_hours": {
 "monday": "08:30-19:15",
 "tuesday": "08:30-19:15"
 }
 }
]
}
```

---

**@POST /places/id**

**Requires Authentication**

It allows users to: - Retrieve detailed information for specific places by their IDs - Get multiple place details in a single request - Access comprehensive place data for route planning

**Request Body:**

```
{
 "place_ids": ["abc123", "def456", "ghi789"]
}
```

**Response:**

```
{
 "success": true,
 "message": "Places retrieved successfully",
}
```

```

"status_code": 200,
"data": [
 {
 "place_id": "abc123",
 "name": "Colosseum",
 "address": "Piazza del Colosseo, 1, 00184 Roma RM, Italy",
 "coordinates": { "lat": 41.8902, "lng": 12.4922 },
 "category": "historical_site",
 "rating": 4.5,
 "price_level": 3,
 "opening_hours": {
 "monday": "08:30-19:15",
 "tuesday": "08:30-19:15"
 }
 }
]
}

```

---

## @POST /places/search

### Requires Authentication

It allows users to: - Search for places using text queries - Filter results by city, category, and other criteria - Find specific attractions and points of interest

### Request Body:

```

{
 "query": "museum",
 "city": "Rome",
 "category": "cultural",
 "limit": 20
}

```

### Response:

```

{
 "success": true,
 "message": "Search results retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "place_id": "mus123",
 "name": "Vatican Museums",
 "address": "00120 Vatican City",
 "coordinates": { "lat": 41.9065, "lng": 12.4536 },
 "category": "museum",

```



```

 "rating": 4.4,
 "price_level": 4
 }
]
}

```

---

## @GET /places/search-must-visit

### Requires Authentication

It allows users to: - Search and discover places for must-visit selection in route creation - Browse places by category with autocomplete functionality - Get comprehensive place information including ratings, images, and coordinates - Reduce typos and improve place selection accuracy in the UI

**Query Parameters:** - **city** (string, required): Name of the city to search places in - **query** (string, optional): Search term for place names (autocomplete) - **category** (string, optional): Filter by wayfare\_category (Cultural Sites, Entertainment, etc.) - **limit** (integer, optional): Maximum number of results (default: 20, max: 50)

### Example Request:

GET /places/search-must-visit?city=Rome&query=colos&category=Cultural%20Sites&limit=10

### Response:

```

{
 "success": true,
 "message": "Found 1 places in Rome matching 'colos' for category 'Cultural Sites'",
 "status_code": 200,
 "data": [
 {
 "place_id": "ChIJrRMgU7ZhLxMR...",
 "name": "Colosseum",
 "category": "historical_site",
 "wayfare_category": "museum",
 "rating": 4.7,
 "image": "https://example.com/colosseum.jpg",
 "coordinates": {
 "lat": 41.8902,
 "lng": 12.4922
 },
 "address": "Piazza del Colosseo, 1, Roma RM, Italy"
 }
]
}

```

**Usage in UI:** - **Autocomplete:** Call with `query` parameter as user types - **Browse:** Call with `city` only to show popular places - **Filter:** Use `category` to filter by place types - **Selection:** Use returned `place_id` and `name` directly in route creation

**Integration with Route Creation:** The response data can be directly used in the `/route/create` endpoint's `must_visit` array:

```
{
 "place_id": "ChIJrRMgU7ZhLxMR...",
 "place_name": "Colosseo",
 "source": "database",
 "notes": "Morning visit preferred"
}
```

---

## @POST /places/autocomplete

### Requires Authentication

It allows users to: - Get autocomplete suggestions for place names - Provide real-time search assistance - Improve user experience during place selection

### Request Body:

```
{
 "query": "colo",
 "city": "Rome",
 "limit": 5
}
```

### Response:

```
{
 "success": true,
 "message": "Autocomplete results retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "place_id": "abc123",
 "name": "Colosseo",
 "category": "historical_site"
 },
 {
 "place_id": "abc124",
 "name": "Colonna di Traiano",
 "category": "monument"
 }
]
}
```

```
]
 }
}
```

---

## @GET /places/top-rated

### Requires Authentication

It allows users to: - Retrieve the top 5 rated places based on aggregated user feedback - Get places with calculated average ratings from multiple feedback entries - Access complete place details including original ratings and feedback statistics - View places sorted by average feedback rating (highest first) and alphabetically by name

### Response:

```
{
 "success": true,
 "message": "Top rated places retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "place_id": "abc123",
 "name": "Vatican Museums",
 "city": "Rome",
 "category": "museum",
 "wayfare_category": "cultural",
 "price": "€17",
 "rating": 4.5,
 "wayfare_rating": 4.8,
 "total_feedback_count": 15,
 "image": "https://example.com/vatican.jpg",
 "detail_url": "https://example.com/vatican-museums",
 "opening_hours": {
 "monday": "09:00-18:00",
 "tuesday": "09:00-18:00"
 },
 "coordinates": {
 "lat": 41.9065,
 "lng": 12.4536
 },
 "address": "Viale Vaticano, 00165 Roma RM, Italy",
 "source": "wayfare",
 "country": "Italy",
 "country_id": "IT",
 "city_id": "rome_001",
 "popularity": 1.2,
 },
],
}
```

```

 "duration": 240,
 "created_at": "2024-01-15T10:30:00Z",
 "updated_at": "2024-01-15T10:30:00Z"
 },
 {
 "place_id": "def456",
 "name": "Colosseum",
 "city": "Rome",
 "category": "historical_site",
 "wayfare_category": "historical",
 "price": "€16",
 "rating": 4.3,
 "wayfare_rating": 4.7,
 "total_feedback_count": 12,
 "image": "https://example.com/colosseum.jpg",
 "detail_url": "https://example.com/colosseum",
 "opening_hours": {
 "monday": "08:30-19:15",
 "tuesday": "08:30-19:15"
 },
 "coordinates": {
 "lat": 41.8902,
 "lng": 12.4922
 },
 "address": "Piazza del Colosseo, 1, 00184 Roma RM, Italy",
 "source": "wayfare",
 "country": "Italy",
 "country_id": "IT",
 "city_id": "rome_001",
 "popularity": 1.5,
 "duration": 180,
 "created_at": "2024-01-15T10:30:00Z",
 "updated_at": "2024-01-15T10:30:00Z"
 }
]
}

```

**Response Fields:** - **place\_id**: Unique identifier for the place - **name**: Name of the place - **city**: City where the place is located - **category**: Primary category of the place - **wayfare\_category**: Wayfare-specific category classification - **price**: Price information for visiting the place - **rating**: Original place rating from the database - **wayfare\_rating**: Calculated average rating from user feedback (rounded to 2 decimal places) - **total\_feedback\_count**: Number of feedback entries for this place - **image**: URL to place image - **detail\_url**: URL to detailed information about the place - **opening\_hours**: Opening hours for each day of the week - **coordinates**: Geographical coordinates (latitude and

longitude) - **address**: Full address of the place - **source**: Source of the place data - **country**: Country where the place is located - **country\_id**: Country identifier - **city\_id**: City identifier - **popularity**: Popularity score (lower numbers indicate higher popularity) - **duration**: Recommended visit duration in minutes - **created\_at**: Timestamp when the place was added to the database - **updated\_at**: Timestamp when the place was last updated

**Sorting Logic**: - Primary sort: Wayfare rating (highest first) - Secondary sort: Place name (alphabetical order) in case of rating ties

---

## Cities Management Endpoints

@GET /cities/search

### Requires Authentication

It allows users to: - Search for cities by name with real-time autocomplete functionality - Get city suggestions as users type in the destination field - Retrieve city details including coordinates for UI integration - Ensure only valid cities can be selected for route creation

**Query Parameters**: - **q** (required): Search query string (minimum 2 characters) - **limit** (optional): Maximum number of results to return (default: 10, max: 20)

### Request Examples:

```
GET /cities/search?q=Ro&limit=5
GET /cities/search?q=Rome
GET /cities/search?q=Par&limit=3
```

### Response:

```
{
 "success": true,
 "message": "Found 2 cities matching 'Ro'",
 "status_code": 200,
 "data": [
 {
 "city_id": "68824f500658a953e0de8233",
 "name": "Rome",
 "country": "Italy",
 "country_id": "IT",
 "display_text": "Rome, Italy",
 "coordinates": {
 "lat": 41.9028,
 "lng": 12.4964
 }
 }
]
}
```

```

 },
 {
 "city_id": "68824f506d75e9efdf51f44c",
 "name": "Rotterdam",
 "country": "Netherlands",
 "country_id": "NL",
 "display_text": "Rotterdam, Netherlands",
 "coordinates": {
 "lat": 51.9244424,
 "lng": 4.47775
 }
 }
]
}

```

**Response Fields:** - **city\_id**: Unique identifier for the city - **name**: City name (use this for route creation) - **country**: Country where the city is located - **country\_id**: ISO country code - **display\_text**: Formatted text for UI display (e.g., “Rome, Italy”) - **coordinates**: Geographical coordinates (latitude and longitude)

**Usage in UI:** 1. User types in search box → Call this endpoint when query 2 characters 2. Display **display\_text** in dropdown options 3. When user selects a city → Use **name** field for route creation 4. Store full city object for reference and validation

**Error Responses:** - 401: Invalid or missing authentication token - 400: Query parameter missing or too short - 500: Server error during search

---

## @GET /cities/all

### Requires Authentication

It allows users to: - Retrieve a complete list of all available cities - Access city information including country, coordinates, timezone, and status - Browse destinations for travel planning with geographical data

### Response:

```

{
 "success": true,
 "message": "Cities retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "city_id": "68824f500e3bd95431ee840c",
 "name": "Rome",

```

```

 "country": "Italy",
 "country_id": "IT",
 "active": true,
 "coordinates": {
 "lat": 41.9028,
 "lng": 12.4964
 },
 "timezone": "Europe/Rome",
 "created_at": "2025-07-30T15:34:43.551000",
 "updated_at": "2025-07-30T15:34:43.551000"
 },
 {
 "city_id": "68824f50960d81e2439af257",
 "name": "Paris",
 "country": "France",
 "country_id": "FR",
 "active": true,
 "coordinates": {
 "lat": 48.8566,
 "lng": 2.3522
 },
 "timezone": "Europe/Paris",
 "created_at": "2025-07-30T15:34:43.551000",
 "updated_at": "2025-07-30T15:34:43.551000"
 }
]
}

```

---

## @POST /cities/specific

### Requires Authentication

It allows users to: - Retrieve cities within a specific country - Filter destinations by country preference with complete geographical data - Narrow down location options for trip planning with coordinates and timezone info

### Request Body:

```

{
 "country": "Italy"
}

```

### Response:

```

{
 "success": true,
 "message": "Cities in Italy retrieved successfully",
}

```

```

 "status_code": 200,
 "data": [
 {
 "city_id": "68824f500e3bd95431ee840c",
 "name": "Rome",
 "country": "Italy",
 "country_id": "IT",
 "active": true,
 "coordinates": {
 "lat": 41.9028,
 "lng": 12.4964
 },
 "timezone": "Europe/Rome",
 "created_at": "2025-07-30T15:34:43.551000",
 "updated_at": "2025-07-30T15:34:43.551000"
 },
 {
 "city_id": "68824f50b1c9d54783ee842f",
 "name": "Milan",
 "country": "Italy",
 "country_id": "IT",
 "active": true,
 "coordinates": {
 "lat": 45.4642,
 "lng": 9.1900
 },
 "timezone": "Europe/Rome",
 "created_at": "2025-07-30T15:34:43.551000",
 "updated_at": "2025-07-30T15:34:43.551000"
 }
]
 }
}

```

---

## Countries Management Endpoints

**@GET /countries/all**

**Requires Authentication**

It allows users to: - Retrieve a complete list of all available countries - Access country information with creation/update timestamps - Browse destinations by country for travel planning

**Response:**

```
{
```



```

 "success": true,
 "message": "Countries fetched successfully",
 "status_code": 200,
 "data": [
 {
 "name": "Italy",
 "country_id": "IT",
 "region": "Europe",
 "active": true,
 "created_at": "2025-07-30T16:06:03.201000",
 "updated_at": "2025-07-30T16:06:03.201000"
 },
 {
 "name": "France",
 "country_id": "FR",
 "region": "Europe",
 "active": true,
 "created_at": "2025-07-30T16:06:03.201000",
 "updated_at": "2025-07-30T16:06:03.201000"
 }
]
 }
}

```

---

## @POST /countries/region

### Requires Authentication

It allows users to: - Retrieve countries within a specific geographical region - Filter destinations by regional preferences - Explore travel options by geographical area

### Request Body:

```

{
 "region": "Southern Europe"
}

```

### Response:

```

{
 "success": true,
 "message": "Countries by region retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "_id": "country123",
 "name": "Italy",

```

```

 "region": "Southern Europe"
 },
 {
 "_id": "country126",
 "name": "Spain",
 "region": "Southern Europe"
 }
]
}

```

---

#### @POST /countries/search

##### Requires Authentication

It allows users to: - Search for countries using text queries - Find specific destinations quickly - Filter countries by name or other criteria

##### Request Body:

```

{
 "query": "ital",
 "limit": 10
}

```

##### Response:

```

{
 "success": true,
 "message": "Search results retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "_id": "country123",
 "name": "Italy",
 "region": "Southern Europe"
 }
]
}

```

---

#### @GET /countries/allRegions

##### Requires Authentication

It allows users to: - Retrieve a complete list of all geographical regions - Access regional classification for countries - Browse destinations by geographical regions

##### Response:

```

{
 "success": true,
 "message": "Regions retrieved successfully",
 "status_code": 200,
 "data": [
 "Northern Europe",
 "Southern Europe",
 "Western Europe",
 "Eastern Europe",
 "North America",
 "South America",
 "Asia",
 "Africa",
 "Oceania"
]
}

```

---

## Authentication & Error Handling

### Authentication

- All endpoints marked with `require` require a valid JWT token
- Include token in the Authorization header: `Bearer <your_jwt_token>`
- Tokens expire after 30 minutes and need to be refreshed

### Common Error Responses

#### 401 Unauthorized:

```

{
 "detail": "Could not validate credentials",
 "success": false,
 "status_code": 401
}

```

#### 400 Bad Request:

```

{
 "detail": "Invalid input data",
 "success": false,
 "status_code": 400
}

```

#### 404 Not Found:

```

{
 "detail": "Resource not found",

```

```
 "success": false,
 "status_code": 404
}

500 Internal Server Error:

{
 "detail": "Internal server error",
 "success": false,
 "status_code": 500
}
```

---

## API Usage Guidelines

### Rate Limiting

- 1000 requests per hour per authenticated user
- 100 requests per hour for unauthenticated endpoints

### Data Formats

- All dates should be in YYYY-MM-DD format
- Coordinates use decimal degrees (latitude, longitude)
- Times are in 24-hour format HH:MM

### Travel Styles

- **relaxed**: Slower pace, longer visits, more downtime
- **moderate**: Balanced schedule with reasonable activities
- **accelerated**: Fast-paced, maximum activities per day

### Budget Levels

- **low**: Budget-conscious options
- **medium**: Balanced cost options
- **high**: Premium experiences

### Categories

- **city\_break**: Urban exploration and cultural sites
  - **beach**: Coastal and water-based activities
  - **mountain**: Outdoor and adventure activities
  - **road\_trip**: Multi-destination driving routes
-

## Feedback Management Endpoints

### @POST /feedback/place

It allows users to: - Submit feedback and ratings for places they've visited - Add comments about their experience - Provide visit date information - Prevent duplicate feedback for the same place

#### Request Body:

```
{
 "place_id": "ChIJyWEHuEmuEmsRm9hTkapTCrk",
 "rating": 5,
 "comment": "Amazing place! The view was breathtaking and the staff was very friendly.",
 "visited_on": "2024-12-01"
}
```

#### Response:

```
{
 "success": true,
 "message": "Place feedback submitted successfully",
 "status_code": 201,
 "feedback_id": "64f8a1b2c3d4e5f6789abc01",
 "created_at": "2024-12-01T10:30:00Z"
}
```

---

### @GET /feedback/place/{place\_id}

It allows users to: - Retrieve all feedback for a specific place - View ratings and comments from other users - Access feedback history and statistics

#### Response:

```
{
 "success": true,
 "message": "Retrieved 15 feedback entries for place",
 "status_code": 200,
 "data": [
 {
 "feedback_id": "64f8a1b2c3d4e5f6789abc01",
 "user_id": "64a1b2c3d4e5f6789abcdef0",
 "place_id": "ChIJyWEHuEmuEmsRm9hTkapTCrk",
 "rating": 5,
 "comment": "Amazing place! The view was breathtaking.",
 "visited_on": "2024-12-01",
 "created_at": "2024-12-01T10:30:00Z",
 "updated_at": "2024-12-01T10:30:00Z"
 }
]
}
```

```
}
]
}
```

---

#### @GET /feedback/place/{place\_id}/user/{user\_id}

It allows users to: - Retrieve specific user's feedback for a place - Check if a user has already provided feedback - Access user-specific feedback details

##### Response:

```
{
 "success": true,
 "message": "User feedback retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "feedback_id": "64f8a1b2c3d4e5f6789abc01",
 "user_id": "64a1b2c3d4e5f6789abcdef0",
 "place_id": "ChIJyWEHuEmuEmsRm9hTkapTCrk",
 "rating": 5,
 "comment": "Amazing place!",
 "visited_on": "2024-12-01",
 "created_at": "2024-12-01T10:30:00Z",
 "updated_at": "2024-12-01T10:30:00Z"
 }
]
}
```

---

#### @PUT /feedback/place/{feedback\_id}

It allows users to: - Update their existing place feedback - Modify rating, comment, or visit date - Maintain feedback history with updated timestamps

##### Request Body:

```
{
 "rating": 4,
 "comment": "Updated review - still great but had some issues.",
 "visited_on": "2024-12-02"
}
```

##### Response:

```
{
 "success": true,
```

```
 "message": "Place feedback updated successfully",
 "status_code": 200,
 "updated_at": "2024-12-01T11:45:00Z"
}
```

---

#### **@DELETE /feedback/place/{feedback\_id}**

It allows users to: - Delete their own place feedback - Remove feedback from the system - Maintain data integrity with proper authorization checks

##### **Response:**

```
{
 "success": true,
 "message": "Place feedback deleted successfully",
 "status_code": 200,
 "deleted_at": "2024-12-01T12:00:00Z"
}
```

---

#### **@GET /feedback/place/{place\_id}/stats**

It allows users to: - Get aggregated statistics for place feedback - View average ratings and rating distribution - Access comprehensive feedback analytics

##### **Response:**

```
{
 "success": true,
 "message": "Place feedback statistics retrieved successfully",
 "status_code": 200,
 "data": {
 "total_feedback": 120,
 "average_rating": 4.2,
 "rating_distribution": {
 "1": 5,
 "2": 10,
 "3": 25,
 "4": 35,
 "5": 45
 }
 }
}
```

---

### @POST /feedback/route

It allows users to: - Submit feedback and ratings for routes they've followed - Share their experience with route planning - Help other users with route recommendations

#### Request Body:

```
{
 "route_id": "68877b97cd6e495f565e416c",
 "rating": 4,
 "comment": "Great route! Well planned with good timing between locations.",
 "visited_on": "2024-12-01"
}
```

#### Response:

```
{
 "success": true,
 "message": "Route feedback submitted successfully",
 "status_code": 201,
 "feedback_id": "64f8a1b2c3d4e5f6789abc02",
 "created_at": "2024-12-01T14:30:00Z"
}
```

---

### @GET /feedback/route/{route\_id}

It allows users to: - Retrieve all feedback for a specific route - View user experiences and recommendations - Access route quality information

#### Response:

```
{
 "success": true,
 "message": "Retrieved 8 feedback entries for route",
 "status_code": 200,
 "data": [
 {
 "feedback_id": "64f8a1b2c3d4e5f6789abc02",
 "user_id": "64a1b2c3d4e5f6789abcdef0",
 "route_id": "68877b97cd6e495f565e416c",
 "rating": 4,
 "comment": "Great route! Well planned.",
 "visited_on": "2024-12-01",
 "created_at": "2024-12-01T14:30:00Z",
 "updated_at": "2024-12-01T14:30:00Z"
 }
]
}
```



```
]
 }
}
```

---

#### @GET /feedback/route/{route\_id}/user/{user\_id}

It allows users to: - Retrieve specific user's feedback for a route - Check if a user has already provided route feedback - Access user-specific route feedback details

##### Response:

```
{
 "success": true,
 "message": "User route feedback retrieved successfully",
 "status_code": 200,
 "data": [
 {
 "feedback_id": "64f8a1b2c3d4e5f6789abc02",
 "user_id": "64a1b2c3d4e5f6789abcdef0",
 "route_id": "68877b97cd6e495f565e416c",
 "rating": 4,
 "comment": "Great route! Well planned.",
 "visited_on": "2024-12-01",
 "created_at": "2024-12-01T14:30:00Z",
 "updated_at": "2024-12-01T14:30:00Z"
 }
]
}
```

---

#### @PUT /feedback/route/{feedback\_id}

It allows users to: - Update their existing route feedback - Modify rating, comment, or visit date - Maintain feedback history with updated timestamps

##### Request Body:

```
{
 "rating": 3,
 "comment": "Updated review - route was okay but had some timing issues.",
 "visited_on": "2024-12-02"
}
```

##### Response:

```
{
 "success": true,
```

```
 "message": "Route feedback updated successfully",
 "status_code": 200,
 "updated_at": "2024-12-01T15:45:00Z"
}
```

---

#### **@DELETE /feedback/route/{feedback\_id}**

It allows users to: - Delete their own route feedback - Remove feedback from the system - Maintain data integrity with proper authorization checks

##### **Response:**

```
{
 "success": true,
 "message": "Route feedback deleted successfully",
 "status_code": 200,
 "deleted_at": "2024-12-01T16:00:00Z"
}
```

---

#### **@GET /feedback/route/{route\_id}/stats**

It allows users to: - Get aggregated statistics for route feedback - View average ratings and success metrics - Access route performance analytics

##### **Response:**

```
{
 "success": true,
 "message": "Route feedback statistics retrieved successfully",
 "status_code": 200,
 "data": {
 "total_feedback": 45,
 "average_rating": 4.1,
 "rating_distribution": {
 "1": 2,
 "2": 3,
 "3": 8,
 "4": 15,
 "5": 17
 }
 }
}
```

---

## Database Collections Schema

The Wayfare API uses MongoDB with the following collections structure:

### User Collection

```
{
 "_id": ObjectId, // MongoDB auto-generated unique identifier
 "email": "user@example.com", // Required, unique
 "first_name": "John",
 "last_name": "Doe",
 "username": "johndoe", // Display name, required
 "hashed_password": "bcrypt_hashed_password_string",
 "preferences": {
 "interests": ["Museums and Art Galleries", "Food & Drinks", "Outdoors", "Hidden Gems"],
 "budget": "medium", // can be: low, medium, high
 "travel_style": "relaxed" // can be: relaxed, moderate, accelerated
 },
 "home_city": "New York"
}
```

### Route Collection

```
{
 "_id": ObjectId, // MongoDB auto-generated unique identifier
 "route_id": "string", // Application-level route ID
 "user_id": "64a1b2c3d4e5f6789abcdef0", // Reference to user who created route
 "title": "Trip to Rome",
 "city": "Rome",
 "city_id": "city_objectid_string",
 "country": "Italy",
 "country_id": "country_objectid_string",
 "start_date": "2025-06-01",
 "end_date": "2025-06-07",
 "budget": "medium", // low, medium, high - inherited from user preferences
 "travel_style": "moderate", // relaxed, moderate, accelerated
 "category": "city_break", // city_break, beach, mountain, road_trip
 "season": "summer", // spring, summer, autumn, winter
 "stats": {
 "views_count": 0,
 "copies_count": 0,
 "likes_count": 0
 },
 "must_visit": [
 {
 "place_id": "abc123", // Optional - from places collection
 "place_name": "Colosseum",
 }
]
}
```

```

 "address": "Piazza del Colosseo, 1, 00184 Roma RM, Italy",
 "coordinates": { "lat": 41.89, "lng": 12.49 },
 "notes": "Morning preferred",
 "source": "google", // google, user, database
 "opening_hours": {
 "monday": "08:30-19:15",
 "tuesday": "08:30-19:15",
 "wednesday": "08:30-19:15",
 "thursday": "08:30-19:15",
 "friday": "08:30-19:15",
 "saturday": "08:30-19:15",
 "sunday": "08:30-19:15"
 }
 },
 "days": [
 {
 "date": "2025-06-01",
 "activities": [
 {
 "place_id": "abc123", // Optional - from places collection
 "place_name": "Colosseum",
 "time": "10:00", // 24-hour format
 "notes": "Visit the ancient amphitheater"
 }
]
 }
],
 "created_at": "2024-12-01T10:00:00Z",
 "updated_at": "2024-12-01T10:00:00Z"
}

```

## Places Collection

```

{
 "_id": ObjectId, // MongoDB auto-generated unique identifier
 "place_id": "abc123", // Unique place identifier (from Google Places API or generated)
 "city": "Rome",
 "city_id": "city_objectid_string", // Reference to cities collection
 "country": "Italy",
 "country_id": "country_objectid_string", // Reference to countries collection
 "name": "Colosseum",
 "category": "historical_site", // attraction category
 "wayfare_category": "must_see", // Optional - our internal categorization
 "price": "€15-25", // Price range or specific price
 "rating": "4.5", // User rating (string format)
}

```

```

"popularity": "4.8", // Popularity score (string format)
"image": "https://example.com/colosseum.jpg", // Optional image URL
"detail_url": "https://maps.google.com/place/...", // Optional detail URL
"opening_hours": {
 "monday": "08:30-19:15",
 "tuesday": "08:30-19:15",
 "wednesday": "08:30-19:15",
 "thursday": "08:30-19:15",
 "friday": "08:30-19:15",
 "saturday": "08:30-19:15",
 "sunday": "08:30-19:15"
},
"coordinates": {
 "lat": 41.8902,
 "lng": 12.4922
},
"address": "Piazza del Colosseo, 1, 00184 Roma RM, Italy",
"source": "google", // google, manual, scraping
"duration": 120, // Recommended visit duration in minutes
"created_at": "2024-01-01T00:00:00Z",
"updated_at": "2024-01-01T00:00:00Z"
}

```

### Cities Collection

```

{
 "_id": ObjectId, // MongoDB auto-generated unique identifier
 "name": "Rome",
 "country": "Italy",
 "country_id": "country_objectid_string", // Reference to countries collection
 "active": true, // Whether city is available for route planning
 "coordinates": { // Optional - city center coordinates
 "lat": 41.9028,
 "lng": 12.4964
 },
 "timezone": "Europe/Rome", // Optional timezone information
 "created_at": "2024-01-01T00:00:00Z",
 "updated_at": "2024-01-01T00:00:00Z"
}

```

### Countries Collection

```

{
 "_id": ObjectId, // MongoDB auto-generated unique identifier
 "name": "Italy",
 "country_id": "IT", // ISO country code identifier

```

```

 "region": "Europe", // Geographical region classification
 "active": true, // Whether country is available for route planning
 "created_at": "2025-07-30T16:06:03.201000",
 "updated_at": "2025-07-30T16:06:03.201000"
 }
}

```

#### Place Feedback Collection

```

{
 "_id": ObjectId, // MongoDB auto-generated unique identifier
 "user_id": "64a1b2c3d4e5f6789abcdef0", // Reference to user who submitted feedback
 "place_id": "ChIJyWEHuEmuEmsRm9hTkapTCrk", // Google Places ID or internal place identifier
 "rating": 5, // Integer from 1-5 rating scale
 "comment": "Amazing place! The view was breathtaking and staff was very friendly.", // Optional comment
 "visited_on": "2024-12-01", // Date when user visited the place (YYYY-MM-DD format)
 "created_at": "2024-12-01T10:30:00Z", // Timestamp when feedback was submitted
 "updated_at": "2024-12-01T10:30:00Z" // Timestamp when feedback was last modified
}

```

#### Route Feedback Collection

```

{
 "_id": ObjectId, // MongoDB auto-generated unique identifier
 "user_id": "64a1b2c3d4e5f6789abcdef0", // Reference to user who submitted feedback
 "route_id": "68877b97cd6e495f565e416c", // Reference to route from routes collection
 "rating": 4, // Integer from 1-5 rating scale
 "comment": "Great route! Well planned with good timing between locations.", // Optional comment
 "visited_on": "2024-12-01", // Date when user followed the route (YYYY-MM-DD format)
 "created_at": "2024-12-01T14:30:00Z", // Timestamp when feedback was submitted
 "updated_at": "2024-12-01T14:30:00Z" // Timestamp when feedback was last modified
}

```

#### Collection Relationships

```

Countries (1) ↔ (many) Cities ↔ (many) Places
 ↑ ↓
Users (1) ↔ (many) Routes ↔ (many) Must_Visit_Places
 ↓ ↓ ↓
(many) Place_Feedback + Route_Feedback ↔ Places

```

- Users create multiple **Routes** and submit **Feedback**
- **Routes** reference **Cities** and **Countries**
- **Routes** contain **Must\_Visit** places which may reference **Places**
- **Places** belong to **Cities** which belong to **Countries**
- **Place Feedback** links **Users** to **Places** with ratings and comments
- **Route Feedback** links **Users** to **Routes** with ratings and comments
- All collections use MongoDB ObjectIds for relationships

## Key Features

- **Flexible Schema:** MongoDB allows for optional fields and schema evolution
- **Geocoding Integration:** Places can be added from external APIs (Google Places)
- **User-Generated Content:** Routes can include custom places not in the places collection
- **Hierarchical Data:** Countries → Cities → Places relationship
- **Feedback System:** Users can rate and review places and routes with validation
- **Duplicate Prevention:** One feedback per user per place/route to maintain data integrity
- **Statistics:** Dynamic calculation of ratings, averages, and distributions
- **Audit Trail:** All collections include created\_at and updated\_at timestamps

---

**Ready to start building amazing travel experiences? Check out our Getting Started Guide and API Examples for implementation details!**