

Wayfare Travel Planning API Documentation

Base URL: <https://api.wayfare.com>

Authentication: Bearer Token (JWT)

Content-Type: application/json

⚙️ 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:

```
{
  "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

Request Body:

```
{
  "title": "Trip to Rome",
  "city": "Rome",
  "start_date": "2025-06-01",
  "end_date": "2025-06-07",
  "category": "city_break",
  "season": "summer",
  "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"
        }
      ]
    }
  ]
}
```

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 place images for each activity in the daily itinerary

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",
  "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/f0/6b/18/gita-fuori-
porta-avevo.jpg?w=500&h=400&s=1"
        }
      ]
    }
  ],
  "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
}
```

@GET /routes/public

Requires Authentication

It allows users to:

- Browse publicly shared routes from other users
- Filter routes by category, season, and budget
- Discover travel inspiration and ideas

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
      }
    }
  ]
}
```

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
    }
  ]
}
```

@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": "Colosseum",
      "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/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 `requiresAuth` 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", "Family Friendly"],
    "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"
}
```

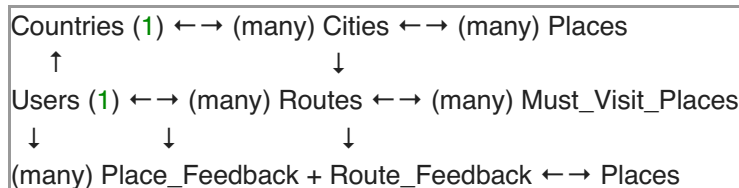
Place Feedback Collection

```
{
  "_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 user
  comment (max 1000 characters)
  "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 user comment
  (max 1000 characters)
  "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



- **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!