

# SMART TOURISM GUIDE

## API Reference Document

*All Endpoints — Request & Response Schemas — v1.0*

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**Base URL:** <https://api.tourguide.com/api/v1>

All requests must include the header: Authorization: Bearer <JWT> except public endpoints.

All timestamps are ISO 8601 format: 2025-01-15T10:30:00Z

All IDs are UUID strings unless otherwise noted.

Method colour legend: **[GET]** **[POST]** **[PUT]** **[PATCH]** **[DELETE]**

# 1. Auth Endpoints

[POST] `/auth/register` — Register a new tourist account

**Auth:** PUBLIC

Request Body:

```
{  
    "email": "ali@example.com",           // required, unique  
    "password": "SecurePass123!",          // required, min 8 chars  
    "firstName": "Ali",                  // required  
    "lastName": "Yilmaz",                // required  
    "phoneNumber": "05301234567",         // optional  
    "preferredLanguage": "tr"            // optional: tr | en | de  
}
```

Response 201:

```
{  
    "userId": "uuid",  
    "email": "ali@example.com",  
    "firstName": "Ali",  
    "lastName": "Yilmaz",  
    "role": "TOURIST",  
    "token": "eyJhbGciOiJIUzI1NiIs..."  
}
```

[POST] `/auth/login` — Authenticate and receive JWT token

**Auth:** PUBLIC

Request Body:

```
{  
    "email": "ali@example.com",  
    "password": "SecurePass123!"  
}
```

Response 200:

```
{  
    "token": "eyJhbGciOiJIUzI1NiIs...",  
    "userId": "uuid",  
    "firstName": "Ali",  
    "role": "TOURIST",  
    "expiresAt": "2025-02-15T10:30:00Z"  
}
```

[POST] `/auth/refresh` — Refresh an expiring JWT token

**Auth:** TOURIST, MODERATOR, CONTENT\_EDITOR, SUPERADMIN

Request Body:

```
{
```

```
        "token": "eyJhbGciOiJIUzI1NiIs..."  
    }
```

### Response 200:

```
{  
    "token": "eyJhbGciOiJIUzI1NiIs...",  
    "expiresAt": "2025-02-16T10:30:00Z"  
}
```

**[POST] /auth/logout** — Invalidate current token

**Auth:** TOURIST, MODERATOR, CONTENT\_EDITOR, SUPERADMIN

Request Body: (empty)

Response 204: No Content

## 2. User Endpoints

**[GET]** `/users/me` — Get current user profile

**Auth:** TOURIST

**Response 200:**

```
{  
    "userId": "uuid",  
    "email": "ali@example.com",  
    "firstName": "Ali",  
    "lastName": "Yilmaz",  
    "phoneNumber": "05301234567",  
    "profilePhotoUrl": "https://minio.../photo.jpg",  
    "preferredLanguage": "tr",  
    "ageGroup": "ADULT",  
    "expPoints": 1250,  
    "level": 5,  
    "createdAt": "2025-01-01T10:00:00Z"  
}
```

**[PATCH]** `/users/me` — Update current user profile

**Auth:** TOURIST

**Request Body (all fields optional):**

```
{  
    "firstName": "Ali",  
    "lastName": "Yilmaz",  
    "phoneNumber": "05301234567",  
    "preferredLanguage": "en",  
    "ageGroup": "ADULT"  
}
```

**Response 200:** Updated user object (same schema as GET /users/me)

**[POST]** `/users/me/photo` — Upload profile photo

**Auth:** TOURIST

**Request:** multipart/form-data

```
file: <binary image> // JPEG or PNG, max 5MB
```

**Response 200:**

```
{  
    "profilePhotoUrl": "https://minio.../photo.jpg"  
}
```

### 2.1 Favorites

[GET] /users/me/favorites — List all favorite places

**Auth:** TOURIST

Response 200:

```
[  
  {  
    "favoriteId": "uuid",  
    "place": {  
      "placeId": "uuid",  
      "name": "Saat Kulesi",  
      "category": "LANDMARK",  
      "latitude": 38.4192,  
      "longitude": 27.1287,  
      "avgRating": 4.7  
    },  
    "savedAt": "2025-01-10T09:00:00Z"  
  }  
]
```

[POST] /users/me/favorites — Add a place to favorites

**Auth:** TOURIST

Request Body:

```
{  
  "placeId": "uuid"  
}
```

Response 201:

```
{  
  "favoriteId": "uuid",  
  "placeId": "uuid",  
  "savedAt": "2025-01-10T09:00:00Z"  
}
```

[DELETE] /users/me/favorites/{favoriteId} — Remove a place from favorites

**Auth:** TOURIST

Response 204: No Content

## 3. Place Endpoints

**[GET] /places/nearby** — Get nearby places based on user location

**Auth:** TOURIST

Query Parameters:

Field	Description
lat	double — User latitude (required)
lng	double — User longitude (required)
radius	int — Search radius in metres, default 1000, max 5000
category	string — Filter: RESTAURANT   LANDMARK   MUSEUM   CAFE   HOTEL   PARK
page	int — Page number, default 0
size	int — Page size, default 20, max 50

Response 200:

```
{
  "content": [
    {
      "placeId": "uuid",
      "externalId": "ChIJ...",
      "name": "Saat Kulesi",
      "nameTr": "Saat Kulesi",
      "nameEn": "Clock Tower",
      "category": "LANDMARK",
      "latitude": 38.4192,
      "longitude": 27.1287,
      "distanceMeters": 320,
      "avgRating": 4.7,
      "reviewCount": 1243,
      "openNow": true,
      "photoUrl": "https://minio.../place.jpg"
    }
  ],
  "totalElements": 47,
  "totalPages": 3,
  "currentPage": 0
}
```

**[GET] /places/{placeId}** — Get full details of a single place

**Auth:** TOURIST

Response 200:

```
{
  "placeId": "uuid",
  "name": "Saat Kulesi",
  "nameTr": "Saat Kulesi",
```

```

"nameEn": "Clock Tower",
"category": "LANDMARK",
"latitude": 38.4192,
"longitude": 27.1287,
"avgRating": 4.7,
"reviewCount": 1243,
"details": {
    "description": "İzmir'in simgesi...",
    "address": "Konak Meydanı, İzmir",
    "phone": "+90 232 000 0000",
    "website": "https://..."
},
"openingHours": {
    "monday": "09:00-18:00",
    "tuesday": "09:00-18:00",
    "wednesday": "09:00-18:00",
    "thursday": "09:00-18:00",
    "friday": "09:00-18:00",
    "saturday": "10:00-16:00",
    "sunday": "closed"
},
"photos": ["https://minio.../1.jpg", "https://minio.../2.jpg"],
"isFavorited": false
}

```

**[GET] /places/search** — Search places by keyword

**Auth:** TOURIST

Query Parameters:

Field	Description
q	string — Search keyword (required, min 2 chars)
lat	double — Optional location bias latitude
lng	double — Optional location bias longitude
page	int — Page number, default 0
size	int — Page size, default 20

Response 200: Same paginated structure as GET /places/nearby

## 4. Quest Endpoints

**[GET]** `/quests` — List all active quests

**Auth:** TOURIST

Query Parameters:

Field	Description
lat	double — Optional: filter quests near this location
lng	double — Optional: filter quests near this location
status	string — Filter: ALL   IN_PROGRESS   COMPLETED   NOT_STARTED (default: ALL)

Response 200:

```
[
  {
    "questId": "uuid",
    "title": "İzmir Keşif Questi",
    "description": "İzmir'in ikonik noktalarını keşfet",
    "expReward": 500,
    "totalSteps": 5,
    "userProgress": {
      "completedSteps": 2,
      "status": "IN_PROGRESS"
    },
    "region": "Konak, İzmir",
    "thumbnailUrl": "https://minio.../quest.jpg"
  }
]
```

**[GET]** `/quests/{questId}` — Get quest details with all steps

**Auth:** TOURIST

Response 200:

```
{
  "questId": "uuid",
  "title": "İzmir Keşif Questi",
  "description": "İzmir'in ikonik noktalarını keşfet",
  "expReward": 500,
  "steps": [
    {
      "stepId": "uuid",
      "order": 1,
      "place": {
        "placeId": "uuid",
        "name": "Saat Kulesi",
        "latitude": 38.4192,
        "longitude": 27.1287
      }
    }
  ]
}
```

```

        },
        "hint":           "Konak Meydani'nda seni bekliyor",
        "requiresPhoto": true,
        "userStatus":    "COMPLETED"
    }
],
"userProgress": {
    "completedSteps": 2,
    "status": "IN_PROGRESS",
    "startedAt": "2025-01-10T09:00:00Z"
}
}

```

**[POST] /quests/{questId}/start — Start a quest**

**Auth:** TOURIST

**Request Body:** (empty)

**Response 201:**

```
{
    "userQuestId": "uuid",
    "questId":     "uuid",
    "status":      "IN_PROGRESS",
    "startedAt":   "2025-01-10T09:00:00Z"
}
```

**[POST] /quests/{questId}/steps/{stepId}/verify — Submit step verification  
(GPS + photo)**

**Auth:** TOURIST

**Request:** multipart/form-data

```
photo:      <binary image> // JPEG or PNG, max 5MB
latitude:  38.4192        // User current latitude
longitude: 27.1287        // User current longitude
```

**Response 200:**

```
{
    "verificationId": "uuid",
    "status":          "APPROVED" | "PENDING REVIEW" | "REJECTED",
    "message":         "Step completed!" | "Under review" | "GPS check failed",
    "expEarned":       100,
    "confidenceScore": 0.87, // Present when status is APPROVED or PENDING REVIEW
    "confidenceThreshold": 0.85, // The threshold configured for this step by admin
    "badgeAwarded": {           // Present only if this was the final step and quest has a badge
        "badgeId":   "uuid",
        "name":      "Explorer",
        "iconUrl":   "https://minio.../explorer.png"
    }
}
```



## 5. ToDo Endpoints

**[GET]** `/todos` — Get current user's ToDo list

**Auth:** TOURIST

**Response 200:**

```
[  
  {  
    "todoId": "uuid",  
    "note": "Mutlaka git!",  
    "isCompleted": false,  
    "createdAt": "2025-01-10T09:00:00Z",  
    "place": {  
      "placeId": "uuid",  
      "name": "Efes Antik Kenti",  
      "latitude": 37.9395,  
      "longitude": 27.3417  
    }  
  }  
]
```

**[POST]** `/todos` — Create a new ToDo item

**Auth:** TOURIST

**Request Body:**

```
{  
  "placeId": "uuid", // optional – link to an existing place  
  "note": "Mutlaka git!" // optional – free-text note  
}
```

**Response 201:**

```
{  
  "todoId": "uuid",  
  "placeId": "uuid",  
  "note": "Mutlaka git!",  
  "isCompleted": false,  
  "createdAt": "2025-01-10T09:00:00Z"  
}
```

**[PATCH]** `/todos/{todoId}` — Update a ToDo item

**Auth:** TOURIST

**Request Body (all fields optional):**

```
{  
  "note": "Güncellendi",  
  "isCompleted": true  
}
```

**Response 200:** Updated ToDo object

[**DELETE**]    /todos/{todoId} — Delete a ToDo item

**Auth:** TOURIST

Response 204: No Content

## 6. Route Endpoints

**[GET]** `/routes` — List all active routes

**Auth:** TOURIST

Query Parameters:

Field	Description
lat	double — Optional: return only routes whose radius contains this point
lng	double — Optional: paired with lat

Response 200:

```
[
  {
    "routeId": "uuid",
    "name": "Kemeraltı Çarşısı Rotası",
    "description": "Tarihi karşıyı keşfet",
    "centerLat": 38.4126,
    "centerLng": 27.1384,
    "radiusMeters": 800,
    "totalPlaces": 7,
    "estimatedMinutes": 120,
    "expReward": 300,
    "thumbnailUrl": "https://minio.../route.jpg",
    "isNearby": true
  }
]
```

**[GET]** `/routes/{routeId}` — Get full route with ordered stops

**Auth:** TOURIST

Response 200:

```
{
  "routeId": "uuid",
  "name": "Kemeraltı Çarşısı Rotası",
  "description": "Tarihi karşıyı keşfet",
  "centerLat": 38.4126,
  "centerLng": 27.1384,
  "radiusMeters": 800,
  "expReward": 300,
  "stops": [
    {
      "order": 1,
      "estimatedMinutes": 15,
      "notes": "Dıştan mutlaka bir fotoğraf çek",
      "place": {
        "placeId": "uuid",
        "name": "Kızlarağası Hanı",
        "latitude": 38.4128,
        "longitude": 27.1384
      }
    }
  ]
}
```

```
        "longitude": 27.1382,  
        "category": "LANDMARK"  
    }  
}  
]  
}
```

## 7. Chat Endpoints

[POST] `/chat/sessions` — Start a new chat session

**Auth:** TOURIST

Request Body:

```
{  
    "language": "tr"    // optional: tr | en | de (default: user preference)  
}
```

Response 201:

```
{  
    "sessionId": "uuid",  
    "startedAt": "2025-01-10T09:00:00Z"  
}
```

[POST] `/chat/sessions/{sessionId}/messages` — Send a message and receive AI response

**Auth:** TOURIST

Request Body:

```
{  
    "content": "Kemeraltı'nda kahvaltı için ne önerirsin?",  
    "latitude": 38.4126,    // optional: current location for context  
    "longitude": 27.1384    // optional  
}
```

Response 200:

```
{  
    "messageId": "uuid",  
    "role": "ASSISTANT",  
    "content": "Kemeraltı'nda sabah kahvaltısı için...",  
    "sentAt": "2025-01-10T09:00:05Z",  
    "functionCalls": [  
        {  
            "type": "ADD_TODO",  
            "payload": { "placeId": "uuid", "note": "Chatbot önerdi" }  
        }  
    ]  
}
```

Note: functionCalls array is present only when the chatbot performs an action (e.g., adding to ToDo list). The client should execute these actions automatically.

[GET] `/chat/sessions/{sessionId}/messages` — Retrieve message history for a session

**Auth:** TOURIST

**Query Parameters:**

Field	Description
page	int — Page number, default 0
size	int — Page size, default 20

**Response 200:**

```
{  
  "content": [  
    {  
      "messageId": "uuid",  
      "role": "USER" | "ASSISTANT",  
      "content": "...",  
      "sentAt": "2025-01-10T09:00:00Z"  
    }  
  ],  
  "totalElements": 24,  
  "totalPages": 2  
}
```

**[DELETE]** `/chat/sessions/{sessionId}` — End and archive a chat session

**Auth:** TOURIST

Response 204: No Content. Session is persisted to PostgreSQL before deletion from Redis.

## 8. Image Recognition Endpoints

[POST] `/images/identify` — Identify a landmark from a photo

**Auth:** TOURIST

Request: multipart/form-data

```
photo:      <binary image>    // JPEG or PNG, max 5MB
latitude:   38.4192           // User current latitude (required for pilot
zone check)
longitude:  27.1287           // User current longitude
```

Response 200:

```
{
  "identified": true,
  "label": "İzmir Saat Kulesi",
  "labelEn": "İzmir Clock Tower",
  "confidence": 0.91,
  "source": "CUSTOM_MODEL" | "GOOGLE_VISION",
  "place": {
    "placeId": "uuid",
    "name": "Saat Kulesi",
    "latitude": 38.4192,
    "longitude": 27.1287,
    "category": "LANDMARK"
  },
  "description": "İzmir Saat Kulesi, 1901 yılında inşa edilmiş..."
}
```

Response 200 (not identified):

```
{
  "identified": false,
  "message": "Landmark could not be identified. Try a clearer photo."
}
```

Response 403 (outside pilot zone):

```
{
  "error": "OUTSIDE_PILOT_ZONE",
  "message": "This feature is not yet available in your region."
}
```

## 9. Review Endpoints

**[GET]** `/places/{placeId}/reviews` — Get approved reviews for a place

**Auth:** TOURIST

Query Parameters:

Field	Description
page	int — Page number, default 0
size	int — Page size, default 10
sort	string — NEWEST   HIGHEST_RATING   LOWEST_RATING (default: NEWEST)

Response 200:

```
{
  "content": [
    {
      "reviewId": "uuid",
      "rating": 4,
      "comment": "Harika bir yer!",
      "user": {
        "firstName": "Ali",
        "profilePhotoUrl": "https://minio.../photo.jpg"
      },
      "createdAt": "2025-01-10T09:00:00Z"
    }
  ],
  "totalElements": 124,
  "totalPages": 13,
  "avgRating": 4.7
}
```

**[POST]** `/places/{placeId}/reviews` — Submit a review for a place

**Auth:** TOURIST

Request Body:

```
{
  "rating": 4, // required, integer 1-5
  "comment": "Harika bir yer!" // optional
}
```

Response 201:

```
{
  "reviewId": "uuid",
  "rating": 4,
  "comment": "Harika bir yer!",
  "status": "PENDING",
  "message": "Your review has been submitted and is pending moderation."
}
```

[DELETE] /places/{placeId}/reviews/{reviewId} — Delete own review

**Auth:** TOURIST

Response 204: No Content

## 10. Badge Endpoints

[GET] `/users/me/badges` — Get current user's earned badges

**Auth:** TOURIST

**Response 200:**

```
[  
  {  
    "badgeId": "uuid",  
    "name": "Explorer",  
    "description": "Keşfedenlerin rozeti",  
    "iconUrl": "https://minio.../explorer.png",  
    "earnedAt": "2025-01-10T09:00:00Z"  
  }  
]
```

[GET] `/badges` — List all available badges (catalog)

**Auth:** TOURIST

**Response 200:**

```
[  
  {  
    "badgeId": "uuid",  
    "name": "Explorer",  
    "description": "Keşfedenlerin rozeti",  
    "iconUrl": "https://minio.../explorer.png",  
    "earnedByUser": true // whether the current user has earned this  
    badge  
  }  
]
```

### 10.1 Badge Management (Content Editor)

[GET] `/admin/editor/badges` — List all badges including inactive

**Auth:** SUPERADMIN, CONTENT\_EDITOR

**Response 200:**

```
[  
  {  
    "badgeId": "uuid",  
    "name": "Explorer",  
    "description": "Keşfedenlerin rozeti",  
    "iconUrl": "https://minio.../explorer.png",  
    "isActive": true,  
    "createdAt": "2025-01-01T10:00:00Z"  
  }  
]
```

[POST] `/admin/editor/badges` — Create a new badge

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request: multipart/form-data

```
name:           Explorer
description:   Keşfedenlerin rozeti
icon:          <binary image> // PNG, max 2MB, square recommended
```

Response 201:

```
{
  "badgeId":      "uuid",
  "name":         "Explorer",
  "description": "Keşfedenlerin rozeti",
  "iconUrl":     "https://minio.../explorer.png",
  "isActive":    true
}
```

[PUT] /admin/editor/badges/{badgeId} — Update a badge

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request: multipart/form-data (all fields optional):

```
name:           Explorer Updated
description:   Güncellenmiş açıklama
icon:          <binary image> // optional, replaces existing icon
```

Response 200: Updated badge object

[DELETE] /admin/editor/badges/{badgeId} — Soft-delete a badge

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Note: Soft delete only. Users who already earned this badge retain it. It will no longer appear in the catalog for new quests.

Response 200:

```
{
  "badgeId":  "uuid",
  "isActive": false
}
```

## 11. Notification Endpoints

---

**[GET]** `/notifications` — Get user notification inbox

**Auth:** TOURIST

Query Parameters:

Field	Description
unreadOnly	boolean — Return only unread notifications (default: false)
page	int — Page number, default 0
size	int — Page size, default 20

Response 200:

```
{
  "content": [
    {
      "notificationId": "uuid",
      "type": "QUEST_APPROVED" | "QUEST_REJECTED" | "ROUTE_NEARBY" |
"LEVEL_UP" | "BADGE_EARNED",
      "title": "Quest adımı onaylandı!",
      "body": "Saat Kulesi adınızı tamamladın. +100 EXP kazandın.",
      "isRead": false,
      "createdAt": "2025-01-10T09:00:00Z"
    }
  ],
  "totalElements": 8,
  "unreadCount": 3
}
```

**[PATCH]** `/notifications/{notificationId}/read` — Mark a notification as read

**Auth:** TOURIST

Request Body: (empty)

Response 200:

```
{
  "notificationId": "uuid",
  "isRead": true
}
```

**[PATCH]** `/notifications/read-all` — Mark all notifications as read

**Auth:** TOURIST

Request Body: (empty)

Response 200:

```
{
  "updatedCount": 3
}
```

**[POST] /notifications/device-token** — Register FCM device token for push notifications

**Auth:** TOURIST

**Request Body:**

```
{  
    "deviceToken": "fcm-token-string",  
    "platform": "ANDROID" | "IOS"  
}
```

**Response 200:**

```
{  
    "registered": true  
}
```

## 12. Admin — Superadmin Endpoints

**[GET]** `/admin/superadmin/users` — List all users with roles and status

**Auth:** SUPERADMIN

Query Parameters:

Field	Description
role	string — Filter: TOURIST   MODERATOR   CONTENT_EDITOR   SUPERADMIN
isActive	boolean — Filter by active/suspended status
page	int — Page number, default 0
size	int — Page size, default 20

Response 200:

```
{
  "content": [
    {
      "userId": "uuid",
      "email": "ali@example.com",
      "firstName": "Ali",
      "lastName": "Yilmaz",
      "role": "MODERATOR",
      "isActive": true,
      "createdAt": "2025-01-01T10:00:00Z"
    }
  ],
  "totalElements": 150
}
```

**[PATCH]** `/admin/superadmin/users/{userId}/role` — Assign a role to a user

**Auth:** SUPERADMIN

Request Body:

```
{
  "role": "MODERATOR" | "CONTENT_EDITOR" | "TOURIST"
  // SUPERADMIN role cannot be assigned via this endpoint
}
```

Response 200:

```
{
  "userId": "uuid",
  "role": "MODERATOR"
}
```

**[PATCH]** `/admin/superadmin/users/{userId}/status` — Suspend or reactivate a user

**Auth:** SUPERADMIN

**Request Body:**

```
{  
  "isActive": false // false = suspend, true = reactivate  
}
```

**Response 200:**

```
{  
  "userId": "uuid",  
  "isActive": false  
}
```

## 13. Admin — Content Editor Endpoints

### 12.1 Place Management

[POST] `/admin/editor/places` — Create a new place

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request Body:

```
{  
    "name": "Kadifekale",  
    "nameTr": "Kadifekale",  
    "nameEn": "Velvet Castle",  
    "category": "LANDMARK",  
    "latitude": 38.4057,  
    "longitude": 27.1445,  
    "details": {  
        "description": "M.Ö. 4. yüzyilda inşa edilmiş...",  
        "address": "Kadifekale, İzmir"  
    },  
    "openingHours": {  
        "monday": "08:00-20:00"  
    }  
}
```

Response 201: Full place object

[PUT] `/admin/editor/places/{placeId}` — Update a place

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request Body: Same schema as POST /admin/editor/places (all fields optional)

Response 200: Updated place object

[DELETE] `/admin/editor/places/{placeId}` — Soft-delete a place

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Response 200:

```
{  
    "placeId": "uuid",  
    "isActive": false  
}
```

### 12.2 Quest Management

[POST] `/admin/editor/quests` — Create a new quest

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request Body:

```
{
  "title": "İzmir Keşif Questi",
  "description": "İzmir'in ikonik noktalarını keşfet",
  "expReward": 500,
  "region": "Konak, İzmir",
  "badgeId": "uuid", // optional – badge awarded on quest completion
  "steps": [
    {
      "order": 1,
      "placeId": "uuid",
      "hint": "Konak Meydanı'nda seni bekliyor",
      "requiresPhoto": true,
      "confidenceThreshold": 0.85 // optional, default 0.80, range 0.0-1.0
    }
  ]
}
```

Response 201: Full quest object

**[PUT]** `/admin/editor/quests/{questId}` — Update a quest

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request Body: Same schema as POST (all fields optional)

Response 200: Updated quest object

**[DELETE]** `/admin/editor/quests/{questId}` — Soft-delete a quest

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Response 200:

```
{
  "questId": "uuid",
  "isActive": false
}
```

## 12.3 Route Management

**[POST]** `/admin/editor/routes` — Create a new route

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request Body:

```
{
  "name": "Kemeraltı Çarşısı Rotası",
  "description": "Tarihi çarşıyı keşfet",
  "centerLat": 38.4126,
  "centerLng": 27.1384,
  "radiusMeters": 800,
  "expReward": 300,
  "stops": [
    {
      "order": 1,
      "placeId": "uuid"
    }
  ]
}
```

```
        "order": 1,  
        "placeId": "uuid",  
        "estimatedMinutes": 15,  
        "notes": "Dıştan mutlaka bir fotoğraf çek"  
    }  
]  
}
```

Response 201: Full route object

[PUT] /admin/editor/routes/{routeId} — Update a route

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Request Body: Same schema as POST (all fields optional)

Response 200: Updated route object

[DELETE] /admin/editor/routes/{routeId} — Soft-delete a route

**Auth:** SUPERADMIN, CONTENT\_EDITOR

Response 200:

```
{  
    "routeId": "uuid",  
    "isActive": false  
}
```

## 14. Admin — Moderator Endpoints

---

### 13.1 Review Moderation

**[GET]** `/admin/moderator/reviews` — List reviews pending moderation

**Auth:** SUPERADMIN, MODERATOR

Query Parameters:

Field	Description
status	string — PENDING   APPROVED   REJECTED (default: PENDING)
page	int — Page number, default 0
size	int — Page size, default 20

Response 200:

```
{
  "content": [
    {
      "reviewId": "uuid",
      "rating": 2,
      "comment": "Kötü bir deneyim...",
      "status": "PENDING",
      "user": {
        "userId": "uuid",
        "firstName": "Ali"
      },
      "place": {
        "placeId": "uuid",
        "name": "Saat Kulesi"
      },
      "createdAt": "2025-01-10T09:00:00Z"
    }
  ],
  "totalElements": 14
}
```

**[PATCH]** `/admin/moderator/reviews/{reviewId}` — Approve or reject a review

**Auth:** SUPERADMIN, MODERATOR

Request Body:

```
{
  "status": "APPROVED" | "REJECTED",
  "moderatorNote": "Contains inappropriate content" // optional
}
```

Response 200:

```
{
  "reviewId": "uuid",
```

```

        "status": "REJECTED"
    }
}
```

## 13.2 Quest Verification Queue

**[GET]** `/admin/moderator/verifications` — List pending quest step verifications

**Auth:** SUPERADMIN, MODERATOR

Query Parameters:

Field	Description
status	string — PENDING   APPROVED   REJECTED (default: PENDING)
page	int — Page number, default 0
size	int — Page size, default 20

Response 200:

```

{
    "content": [
        {
            "verificationId": "uuid",
            "status": "PENDING",
            "confidenceScore": 0.63,
            "photoUrl": "https://minio.../verify.jpg",
            "submittedAt": "2025-01-10T09:00:00Z",
            "user": {
                "userId": "uuid",
                "firstName": "Ali"
            },
            "quest": {
                "questId": "uuid",
                "title": "İzmir Keşif Questi"
            },
            "step": {
                "stepId": "uuid",
                "place": {
                    "name": "Saat Kulesi",
                    "latitude": 38.4192,
                    "longitude": 27.1287
                }
            }
        }
    ],
    "totalElements": 6
}
```

**[PATCH]** `/admin/moderator/verifications/{verificationId}` — Approve or reject a quest verification

**Auth:** SUPERADMIN, MODERATOR

Request Body:

```
{  
  "status": "APPROVED" | "REJECTED",  
  "moderatorNote": "Photo does not match the location" // optional  
}
```

### Response 200:

```
{  
  "verificationId": "uuid",  
  "status": "REJECTED",  
  "expAwarded": 0  
}
```

## 15. Standard Error Response Format

All error responses follow a consistent structure handled by `GlobalExceptionHandler`:

```
{  
    "timestamp": "2025-01-10T09:00:00Z",  
    "status": 400,  
    "error": "BAD_REQUEST",  
    "message": "Validation failed",  
    "path": "/api/v1/places/nearby",  
    "details": [  
        "lat: must not be null",  
        "lng: must not be null"  
    ]  
}
```

HTTP Status	Error Code	When
400	BAD_REQUEST	Invalid request body or missing required fields
401	UNAUTHORIZED	Missing or expired JWT token
403	FORBIDDEN	Valid token but insufficient role for this endpoint
403	OUTSIDE_PILOT_ZONE	Image recognition requested outside active pilot regions
404	NOT_FOUND	Requested resource does not exist or is soft-deleted
409	CONFLICT	Duplicate resource (e.g., email already registered)
413	FILE_TOO_LARGE	Uploaded file exceeds 5MB limit
422	UNPROCESSABLE	GPS check failed for quest verification
500	INTERNAL_ERROR	Unexpected server error
503	AI_UNAVAILABLE	Python microservice unreachable and all fallbacks exhausted