<https://gemini.google.com/u/1/app/5c36af70115d07fa>

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### OpenAPI 3.1 Spec (for Module 4 - Waypoints - REVISED)

YAML

```

openapi: 3.1.0

info:

title: Via di Francesco - Module 4 API (Waypoints)

version: v1.0.0

description: |-

API endpoints for managing Waypoints and related master data

(Waypoint Categories, Tags, Content Statuses) for the Via di Francesco Pilgrimage Platform.

This module focuses on the `waypoints`, `waypoint\_categories\_master`, `tags\_master`,

and `content\_statuses\_master` tables.

Translatable fields (e.g., `name`, `label`, `description`) will return text in the language specified

by the `lang` query parameter, or in the primary reference language (English) if `lang` is omitted

or the specific translation is unavailable.

tags:

- name: Waypoints

description: Operations related to waypoints (Points of Interest).

- name: WaypointCategories

description: Operations related to waypoint categories master data.

- name: TagsMaster

description: Operations related to tags master data.

- name: ContentStatusesMaster

description: Operations related to content statuses master data.

servers:

- url: http://localhost:8000/rest/v1 # Placeholder for Supabase local PostgREST

description: Development Server

- url: https://api.viadifrancesco.example.com/v1 # Placeholder

description: Production Server

components:

schemas:

# Shared Schemas (Conceptual - defined here for module context)

ApiError:

type: object

description: Standard error object based on the Auth & Security Blueprint.

properties:

code:

type: string

description: A machine-readable error code or PostgREST error code.

example: "PGRST116"

message:

type: string

description: A human-readable summary of the error.

example: "Invalid input provided for waypoint creation."

details:

type: string

nullable: true

description: More specific details about the error.

example: "Field 'name' cannot be empty."

hint:

type: string

nullable: true

description: Optional hint on how to resolve the error.

example: "Ensure all required fields are populated."

required:

- code

- message

PaginationEnvelope:

type: object

properties:

total\_items:

type: integer

description: Total number of items available across all pages.

example: 125

total\_pages:

type: integer

description: Total number of pages.

example: 7

current\_page:

type: integer

description: The current page number.

example: 1

page\_size:

type: integer

description: The number of items per page.

example: 20

# Module 4 Schemas

WaypointCategoryMaster:

description: Defines a broad classification for waypoints. Text fields are translated based on `lang` param.

type: object

properties:

id:

type: integer

description: Unique identifier for the waypoint category.

readOnly: true

code:

type: string

description: Short, stable, machine-readable code (e.g., 'accommodation\_location').

readOnly: true

label:

type: string

description: Human-readable name for the category. Translated based on `lang` query parameter.

example: "Accommodation" # Will be "Alloggio" if lang=it

description:

type: string

nullable: true

description: Optional description of the category. Translated based on `lang` query parameter.

icon\_identifier:

type: string

nullable: true

description: Name, class, or path for a UI icon.

requires\_detail\_table:

type: string

nullable: true

description: Optional name of the specific detail table this category links to.

sort\_order:

type: integer

description: Determines the display order in UI lists or filters.

is\_active:

type: boolean

description: True if the category definition is active and available for use.

readOnly: true

created\_at:

type: string

format: date-time

description: Timestamp of record creation.

readOnly: true

updated\_at:

type: string

format: date-time

description: Timestamp of last update.

readOnly: true

created\_by\_profile\_id:

type: string

format: uuid

nullable: true

description: Profile ID of the user who created the record.

readOnly: true

updated\_by\_profile\_id:

type: string

format: uuid

nullable: true

description: Profile ID of the user who last updated the record.

readOnly: true

required:

- id

- code

- label # Now refers to the translated label

- sort\_order

- is\_active

- created\_at

- updated\_at

WaypointCategoryMasterCreate:

description: Data for creating a new waypoint category. Primary language (English) text should be provided.

type: object

properties:

code:

type: string

description: Short, stable, machine-readable code (snake\_case). Max 50 chars.

pattern: "^[a-z0-9\_]{1,50}$"

label: # This will be the English label on creation

type: string

description: Human-readable English label. Max 100 chars.

maxLength: 100

description: # English description on creation

type: string

nullable: true

description: Optional English description.

icon\_identifier:

type: string

nullable: true

maxLength: 100

description: Name, class, or path for a UI icon.

requires\_detail\_table:

type: string

nullable: true

maxLength: 100

description: Optional name of the specific detail table.

sort\_order:

type: integer

default: 0

description: Determines display order.

is\_active:

type: boolean

default: true

required:

- code

- label

TagMaster:

description: Defines a curated descriptive tag. Text fields are translated based on `lang` param.

type: object

properties:

id:

type: integer

description: Unique identifier for the tag.

readOnly: true

tag\_code:

type: string

description: Short, stable, machine-readable code for the tag.

readOnly: true

label:

type: string

description: Human-readable name for the tag. Translated based on `lang` query parameter.

description:

type: string

nullable: true

description: Optional description of the tag. Translated based on `lang` query parameter.

tag\_type:

type: string

nullable: true

description: Optional type to group tags (e.g., 'amenity', 'poi\_feature').

icon\_identifier:

type: string

nullable: true

description: Optional UI icon identifier.

sort\_order:

type: integer

description: Determines display order.

is\_active:

type: boolean

description: True if the tag definition is active.

readOnly: true

created\_at:

type: string

format: date-time

readOnly: true

updated\_at:

type: string

format: date-time

readOnly: true

created\_by\_profile\_id:

type: string

format: uuid

nullable: true

readOnly: true

updated\_by\_profile\_id:

type: string

format: uuid

nullable: true

readOnly: true

required:

- id

- tag\_code

- label # Now refers to the translated label

- sort\_order

- is\_active

TagMasterCreate:

description: Data for creating a new tag. Primary language (English) text should be provided.

type: object

properties:

tag\_code:

type: string

description: Short, stable, machine-readable code (snake\_case). Max 50 chars.

pattern: "^[a-z0-9\_]{1,50}$"

label: # English label on creation

type: string

description: Human-readable English label. Max 100 chars.

maxLength: 100

description: # English description on creation

type: string

nullable: true

description: Optional English description.

tag\_type:

type: string

nullable: true

pattern: "^[a-z0-9\_]{1,50}$"

description: Optional type to group tags.

icon\_identifier:

type: string

nullable: true

maxLength: 100

description: Optional UI icon identifier.

sort\_order:

type: integer

default: 0

is\_active:

type: boolean

default: true

required:

- tag\_code

- label

ContentStatusMaster:

description: Defines a content lifecycle status. Text fields are translated based on `lang` param.

type: object

properties:

id:

type: integer

description: Unique identifier for the content status.

readOnly: true

code:

type: string

description: Short, stable, machine-readable code (e.g., 'draft', 'published').

readOnly: true

label:

type: string

description: Human-readable name for the status. Translated based on `lang` query parameter.

description:

type: string

nullable: true

description: Optional description of the status. Translated based on `lang` query parameter.

is\_publicly\_visible:

type: boolean

description: Indicates if content \*with this status\* is generally visible to public users.

sort\_order:

type: integer

description: Determines display order.

is\_active:

type: boolean

description: True if the status definition itself is active.

readOnly: true

created\_at:

type: string

format: date-time

readOnly: true

updated\_at:

type: string

format: date-time

readOnly: true

created\_by\_profile\_id:

type: string

format: uuid

nullable: true

readOnly: true

updated\_by\_profile\_id:

type: string

format: uuid

nullable: true

readOnly: true

required:

- id

- code

- label # Now refers to the translated label

- is\_publicly\_visible

- sort\_order

- is\_active

ContentStatusMasterCreate:

description: Data for creating a new content status. Primary language (English) text should be provided.

type: object

properties:

code:

type: string

description: Short, stable, machine-readable code (snake\_case). Max 50 chars.

pattern: "^[a-z0-9\_]{1,50}$"

label: # English label on creation

type: string

description: Human-readable English label. Max 100 chars.

maxLength: 100

description: # English description on creation

type: string

nullable: true

is\_publicly\_visible:

type: boolean

default: false

description: Indicates if content \*with this status\* is generally visible.

sort\_order:

type: integer

default: 0

is\_active:

type: boolean

default: true

required:

- code

- label

- is\_publicly\_visible

Waypoint:

description: A geographically located point of interest (POI). Text fields are translated based on `lang` param.

type: object

properties:

id:

type: integer

format: int64 # DB is bigint

description: Unique identifier for the waypoint.

readOnly: true

name:

type: string

description: Primary name of the waypoint. Translated based on `lang` query parameter.

slug:

type: string

nullable: true

description: URL-friendly identifier.

alternate\_names\_primary\_lang: # This specific field stores English alternate names as per DB spec [cite: 158]

type: array

items:

type: string

nullable: true

description: Array of other known names in the primary reference language (English).

waypoint\_primary\_category\_id:

type: integer

description: ID of the primary category from `waypoint\_categories\_master`.

waypoint\_subcategory\_tag\_ids: # Array of integers referencing tags\_master.id

type: array

items:

type: integer

nullable: true

description: Array of tag IDs from `tags\_master`.

description:

type: string

nullable: true

description: General, brief description of the waypoint. Translated based on `lang` query parameter.

geom:

type: object

description: GeoJSON Point geometry (PointZ, SRID 4326 WGS84).

properties:

type:

type: string

enum: [Point]

coordinates:

type: array

items:

type: number

format: double

minItems: 2

maxItems: 3

required: [type, coordinates]

latitude:

type: number

format: double

description: Latitude coordinate (WGS 84). Generated from geom.

readOnly: true

longitude:

type: number

format: double

description: Longitude coordinate (WGS 84). Generated from geom.

readOnly: true

elevation\_meters:

type: integer

nullable: true

description: Elevation in meters. Generated from geom's Z value.

readOnly: true

town\_id:

type: integer

nullable: true

description: ID of the associated town.

parent\_waypoint\_id:

type: integer

format: int64 # DB is bigint

nullable: true

description: ID of the parent waypoint for hierarchical waypoints.

address\_text:

type: string

nullable: true

description: Textual street address, if applicable. Translated based on `lang` query parameter.

primary\_image\_media\_id:

type: string

format: uuid

nullable: true

description: ID of the primary representative image from `media` table.

primary\_thumbnail\_media\_id:

type: string

format: uuid

nullable: true

description: ID of the primary thumbnail image from `media` table.

content\_visibility\_status\_id:

type: integer

description: ID of the content status from `content\_statuses\_master`.

is\_seasonal:

type: boolean

description: Indicates if availability is seasonal.

is\_trail\_access\_point:

type: boolean

description: Flags common trail access points.

is\_significant\_trail\_junction:

type: boolean

description: Flags major trail junctions.

is\_franciscan\_highlight\_site:

type: boolean

description: Flags key Franciscan sites.

is\_significant\_pilgrim\_poi:

type: boolean

description: Flags POIs of major significance to pilgrims.

short\_narrative\_for\_dynamic\_lists:

type: string

maxLength: 250

nullable: true

description: Brief descriptive snippet for dynamic highlight lists. Translated based on `lang` query parameter.

waypoint\_accessibility\_notes:

type: string

nullable: true

description: Specific accessibility notes. Translated based on `lang` query parameter.

general\_tags\_text: # Array of free-text tags

type: array

items:

type: string

nullable: true

description: Array of general, free-text descriptive tags.

primary\_data\_source\_waypoint:

type: string

nullable: true

description: Information on the source of this waypoint's data.

quality\_score:

type: integer

format: int32 # DB smallint

minimum: 0

maximum: 100

nullable: true

description: Internal score indicating data confidence/completeness (0-100).

created\_at:

type: string

format: date-time

readOnly: true

created\_by\_profile\_id:

type: string

format: uuid

nullable: true

readOnly: true

updated\_at:

type: string

format: date-time

readOnly: true

updated\_by\_profile\_id:

type: string

format: uuid

nullable: true

readOnly: true

deleted\_at:

type: string

format: date-time

nullable: true

readOnly: true

required:

- id

- name # Now refers to the translated name

- waypoint\_primary\_category\_id

- geom

- content\_visibility\_status\_id

- is\_seasonal

- is\_trail\_access\_point

- is\_significant\_trail\_junction

- is\_franciscan\_highlight\_site

- is\_significant\_pilgrim\_poi

WaypointCreate:

description: Data for creating a new waypoint. Primary language (English) text should be provided for translatable fields.

type: object

properties:

name: # English name on creation

type: string

maxLength: 255

description: Primary English name.

slug:

type: string

nullable: true

pattern: "^[a-z0-9]+(?:-[a-z0-9]+)\*$"

maxLength: 100

description: URL-friendly identifier.

alternate\_names\_primary\_lang:

type: array

items: { type: string }

nullable: true

description: Array of other English names.

waypoint\_primary\_category\_id:

type: integer

description: FK to waypoint\_categories\_master.

waypoint\_subcategory\_tag\_ids:

type: array

items: { type: integer }

nullable: true

description: Array of FKs to tags\_master.

description: # English description on creation

type: string

nullable: true

description: General, brief English description.

geom:

$ref: '#/components/schemas/Waypoint/properties/geom' # Re-use definition

town\_id:

type: integer

nullable: true

description: FK to towns table.

parent\_waypoint\_id:

type: integer

format: int64

nullable: true

description: FK to waypoints.id.

address\_text: # English address on creation

type: string

nullable: true

description: Textual English street address.

primary\_image\_media\_id:

type: string

format: uuid

nullable: true

description: FK to media table.

primary\_thumbnail\_media\_id:

type: string

format: uuid

nullable: true

description: FK to media table.

content\_visibility\_status\_id:

type: integer

description: FK to content\_statuses\_master. Default usually 'draft'.

is\_seasonal:

type: boolean

default: false

is\_trail\_access\_point:

type: boolean

default: false

is\_significant\_trail\_junction:

type: boolean

default: false

is\_franciscan\_highlight\_site:

type: boolean

default: false

is\_significant\_pilgrim\_poi:

type: boolean

default: false

short\_narrative\_for\_dynamic\_lists: # English on creation

type: string

maxLength: 250

nullable: true

description: Brief English snippet.

waypoint\_accessibility\_notes: # English on creation

type: string

nullable: true

description: English accessibility notes.

general\_tags\_text:

type: array

items: { type: string }

nullable: true

description: Array of free-text tags.

primary\_data\_source\_waypoint:

type: string

nullable: true

quality\_score:

type: integer

format: int32

minimum: 0

maximum: 100

nullable: true

required:

- name

- waypoint\_primary\_category\_id

- geom

- content\_visibility\_status\_id

parameters:

Lang:

name: lang

in: query

description: |-

The language code for translated content (e.g., `it`, `en`).

If not provided, or if a translation is not available for the requested language,

content will be returned in the primary reference language (English).

required: false

schema:

type: string

example: "it"

Page:

name: page

in: query

description: Page number for paginated results.

required: false

schema:

type: integer

minimum: 1

default: 1

PageSize:

name: page\_size

in: query

description: Number of items per page for paginated results.

required: false

schema:

type: integer

minimum: 1

maximum: 100 # Example maximum

default: 20

SortBy:

name: sort\_by

in: query

description: Field to sort by (e.g., `name`, `created\_at`). Specific to endpoint.

required: false

schema:

type: string

Order:

name: order

in: query

description: Sort order.

required: false

schema:

type: string

enum: [asc, desc]

default: asc

securitySchemes:

bearerAuth: # JWT Authentication based on Auth & Security Blueprint

type: http

scheme: bearer

bearerFormat: JWT

description: "Supabase JWT token. Roles from `public.profiles.roles` are synchronized to `auth.users.raw\_app\_meta\_data.roles` and available in JWT claims. RLS policies use `auth.uid()` and helper functions like `public.has\_role(TEXT)`."

security:

- bearerAuth: [] # Applies JWT bearer auth globally by default. Public endpoints override.

paths:

/waypoint\_categories:

get:

tags: [WaypointCategories]

summary: List Waypoint Categories

description: |-

Retrieves a list of waypoint categories.

Publicly accessible, RLS on `waypoint\_categories\_master` filters for `is\_active = true`.

The API uses `v\_waypoint\_categories\_localized` view or similar logic to efficiently provide translations based on the `lang` parameter.

# Requires view: v\_waypoint\_categories\_localized (or equivalent backend logic)

# Requires index: idx\_wc\_master\_is\_active

operationId: listWaypointCategories

security: [] # Public, RLS enforced

parameters:

- $ref: '#/components/parameters/Page'

- $ref: '#/components/parameters/PageSize'

- $ref: '#/components/parameters/SortBy' # e.g. sort\_order, label

- $ref: '#/components/parameters/Order'

- $ref: '#/components/parameters/Lang'

responses:

'200':

description: A paginated list of waypoint categories.

content:

application/json:

schema:

type: object

properties:

data:

type: array

items:

$ref: '#/components/schemas/WaypointCategoryMaster'

pagination:

$ref: '#/components/schemas/PaginationEnvelope'

default:

description: Unexpected error.

content:

application/json:

schema:

$ref: '#/components/schemas/ApiError'

post:

tags: [WaypointCategories]

summary: Create Waypoint Category

description: |-

Creates a new waypoint category. `label` and `description` are submitted in English.

Requires `platform\_admin` role.

operationId: createWaypointCategory

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/WaypointCategoryMasterCreate'

responses:

'201':

description: Waypoint category created successfully. Response `label` and `description` will be in English.

content:

application/json:

schema:

$ref: '#/components/schemas/WaypointCategoryMaster'

'400':

$ref: '#/components/responses/BadRequestError'

'401':

$ref: '#/components/responses/UnauthorizedError'

'403':

$ref: '#/components/responses/ForbiddenError'

/waypoint\_categories/{category\_id}:

get:

tags: [WaypointCategories]

summary: Get Waypoint Category by ID

description: |-

Retrieves a specific waypoint category by its ID.

Publicly accessible if `is\_active = true`.

# Requires view: v\_waypoint\_categories\_localized (or equivalent backend logic)

operationId: getWaypointCategoryById

security: [] # Public, RLS enforced

parameters:

- name: category\_id

in: path

required: true

description: ID of the waypoint category.

schema:

type: integer

- $ref: '#/components/parameters/Lang'

responses:

'200':

description: Waypoint category details.

content:

application/json:

schema:

$ref: '#/components/schemas/WaypointCategoryMaster'

'404':

$ref: '#/components/responses/NotFoundError'

default:

$ref: '#/components/responses/DefaultError'

/tags:

get:

tags: [TagsMaster]

summary: List Tags

description: |-

Retrieves a list of tags.

Publicly accessible, RLS on `tags\_master` filters for `is\_active = true`.

The API uses `v\_tags\_localized` view or similar logic to efficiently provide translations based on the `lang` parameter.

# Requires view: v\_tags\_localized (or equivalent backend logic)

# Requires index: idx\_tags\_master\_is\_active

operationId: listTags

security: [] # Public, RLS enforced

parameters:

- $ref: '#/components/parameters/Page'

- $ref: '#/components/parameters/PageSize'

- $ref: '#/components/parameters/SortBy' # e.g. sort\_order, label

- $ref: '#/components/parameters/Order'

- $ref: '#/components/parameters/Lang'

- name: tag\_type

in: query

description: Filter tags by their specified type code.

required: false

schema:

type: string

responses:

'200':

description: A paginated list of tags.

content:

application/json:

schema:

type: object

properties:

data:

type: array

items:

$ref: '#/components/schemas/TagMaster'

pagination:

$ref: '#/components/schemas/PaginationEnvelope'

default:

$ref: '#/components/responses/DefaultError'

post:

tags: [TagsMaster]

summary: Create Tag

description: |-

Creates a new tag. `label` and `description` are submitted in English.

Requires `platform\_admin` or `admin` role.

operationId: createTag

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/TagMasterCreate'

responses:

'201':

description: Tag created successfully. Response `label` and `description` will be in English.

content:

application/json:

schema:

$ref: '#/components/schemas/TagMaster'

'400':

$ref: '#/components/responses/BadRequestError'

'401':

$ref: '#/components/responses/UnauthorizedError'

'403':

$ref: '#/components/responses/ForbiddenError'

/tags/{tag\_id}:

get:

tags: [TagsMaster]

summary: Get Tag by ID

description: |-

Retrieves a specific tag by its ID.

Publicly accessible if `is\_active = true`.

# Requires view: v\_tags\_localized (or equivalent backend logic)

operationId: getTagById

security: [] # Public, RLS enforced

parameters:

- name: tag\_id

in: path

required: true

description: ID of the tag.

schema:

type: integer

- $ref: '#/components/parameters/Lang'

responses:

'200':

description: Tag details.

content:

application/json:

schema:

$ref: '#/components/schemas/TagMaster'

'404':

$ref: '#/components/responses/NotFoundError'

default:

$ref: '#/components/responses/DefaultError'

/content\_statuses:

get:

tags: [ContentStatusesMaster]

summary: List Content Statuses

description: |-

Retrieves a list of content status definitions.

Publicly accessible, RLS on `content\_statuses\_master` filters for `is\_active = true`.

# Requires index: idx\_cs\_master\_is\_active

operationId: listContentStatuses

security: [] # Public, RLS enforced

parameters:

- $ref: '#/components/parameters/Page'

- $ref: '#/components/parameters/PageSize'

- $ref: '#/components/parameters/SortBy' # e.g. sort\_order, label

- $ref: '#/components/parameters/Order'

- $ref: '#/components/parameters/Lang'

responses:

'200':

description: A paginated list of content status definitions.

content:

application/json:

schema:

type: object

properties:

data:

type: array

items:

$ref: '#/components/schemas/ContentStatusMaster'

pagination:

$ref: '#/components/schemas/PaginationEnvelope'

default:

$ref: '#/components/responses/DefaultError'

post:

tags: [ContentStatusesMaster]

summary: Create Content Status

description: |-

Creates a new content status definition. `label` and `description` are submitted in English.

Requires `platform\_admin` role.

operationId: createContentStatus

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/ContentStatusMasterCreate'

responses:

'201':

description: Content status created successfully. Response `label` and `description` will be in English.

content:

application/json:

schema:

$ref: '#/components/schemas/ContentStatusMaster'

'400':

$ref: '#/components/responses/BadRequestError'

'401':

$ref: '#/components/responses/UnauthorizedError'

'403':

$ref: '#/components/responses/ForbiddenError'

/content\_statuses/{status\_id}:

get:

tags: [ContentStatusesMaster]

summary: Get Content Status by ID

description: |-

Retrieves a specific content status definition by its ID.

Publicly accessible if `is\_active = true`.

operationId: getContentStatusById

security: [] # Public, RLS enforced

parameters:

- name: status\_id

in: path

required: true

description: ID of the content status.

schema:

type: integer

- $ref: '#/components/parameters/Lang'

responses:

'200':

description: Content status details.

content:

application/json:

schema:

$ref: '#/components/schemas/ContentStatusMaster'

'404':

$ref: '#/components/responses/NotFoundError'

default:

$ref: '#/components/responses/DefaultError'

/waypoints:

get:

tags: [Waypoints]

summary: List Waypoints

description: |-

Retrieves a list of waypoints with filtering and pagination.

Publicly accessible for published waypoints (RLS: where `content\_visibility\_status\_id` corresponds to a `content\_statuses\_master.code = 'published'` and `waypoints.deleted\_at IS NULL`).

# Requires indexes: idx\_waypoints\_content\_visibility\_status\_id, idx\_waypoints\_deleted\_at, idx\_waypoints\_geom (for spatial filters), idx\_waypoints\_waypoint\_primary\_category\_id, idx\_waypoints\_subcategory\_tag\_ids (GIN)

operationId: listWaypoints

security: [] # Public, RLS enforced

parameters:

- $ref: '#/components/parameters/Page'

- $ref: '#/components/parameters/PageSize'

- $ref: '#/components/parameters/SortBy' # e.g. name, created\_at

- $ref: '#/components/parameters/Order'

- $ref: '#/components/parameters/Lang'

- name: waypoint\_primary\_category\_id

in: query

description: Filter by primary category ID.

schema: { type: integer }

- name: town\_id

in: query

description: Filter by town ID.

schema: { type: integer }

- name: tags\_include\_any # Example for array field filtering

in: query

description: Comma-separated list of tag IDs (from `tags\_master.id`) to filter by (waypoint must have at least one).

schema: { type: string }

- name: bbox # Example spatial filter

in: query

description: Bounding box to filter waypoints geographically (e.g., minLng,minLat,maxLng,maxLat).

schema: { type: string, pattern: "^-?\\d+\\.?\\d\*,-?\\d+\\.?\\d\*,-?\\d+\\.?\\d\*,-?\\d+\\.?\\d\*$" }

responses:

'200':

description: A paginated list of waypoints.

content:

application/json:

schema:

type: object

properties:

data:

type: array

items:

$ref: '#/components/schemas/Waypoint'

pagination:

$ref: '#/components/schemas/PaginationEnvelope'

'400':

$ref: '#/components/responses/BadRequestError' # For invalid filter params

default:

$ref: '#/components/responses/DefaultError'

post:

tags: [Waypoints]

summary: Create Waypoint

description: |-

Creates a new waypoint. Translatable fields like `name`, `description` are submitted in English.

Requires appropriate content creation role (e.g., `regional\_content\_manager`, `admin`).

`created\_by\_profile\_id` is automatically set to the authenticated user's ID.

operationId: createWaypoint

requestBody:

required: true

content:

application/json:

schema:

$ref: '#/components/schemas/WaypointCreate'

responses:

'201':

description: Waypoint created successfully. Response fields like `name`, `description` will be in English.

content:

application/json:

schema:

$ref: '#/components/schemas/Waypoint'

'400':

$ref: '#/components/responses/BadRequestError'

'401':

$ref: '#/components/responses/UnauthorizedError'

'403':

$ref: '#/components/responses/ForbiddenError'

/waypoints/{waypoint\_id}:

get:

tags: [Waypoints]

summary: Get Waypoint by ID

description: |-

Retrieves a specific waypoint by its ID.

Publicly accessible if published and not deleted (RLS enforced).

operationId: getWaypointById

security: [] # Public, RLS enforced

parameters:

- name: waypoint\_id

in: path

required: true

description: ID of the waypoint to retrieve.

schema:

type: integer

format: int64 # DB is bigint

- $ref: '#/components/parameters/Lang'

responses:

'200':

description: Waypoint details.

content:

application/json:

schema:

$ref: '#/components/schemas/Waypoint'

'404':

$ref: '#/components/responses/NotFoundError'

default:

$ref: '#/components/responses/DefaultError'

patch:

tags: [Waypoints]

summary: Update Waypoint (Partial)

description: |-

Partially updates an existing waypoint. Translatable fields like `name`, `description` in the request body should be in English if being updated.

Requires appropriate content editing role (e.g., owner, `regional\_content\_manager`, `admin`).

`updated\_by\_profile\_id` is automatically set.

operationId: updateWaypointPartial

parameters:

- name: waypoint\_id

in: path

required: true

description: ID of the waypoint to update.

schema:

type: integer

format: int64

requestBody:

required: true

content:

application/json: # Using WaypointCreate as it contains all mutable fields (all optional for PATCH)

schema:

$ref: '#/components/schemas/WaypointCreate'

responses:

'200':

description: Waypoint updated successfully. Response `name`, `description` will be based on `lang` param if specified, else English.

content:

application/json:

schema:

$ref: '#/components/schemas/Waypoint'

'400':

$ref: '#/components/responses/BadRequestError'

'401':

$ref: '#/components/responses/UnauthorizedError'

'403':

$ref: '#/components/responses/ForbiddenError'

'404':

$ref: '#/components/responses/NotFoundError'

# Conceptual shared responses (defined here for module context)

responses:

BadRequestError:

description: Bad Request - The server cannot or will not process the request due to an apparent client error.

content:

application/json:

schema:

$ref: '#/components/schemas/ApiError'

UnauthorizedError:

description: Unauthorized - Authentication is required and has failed or has not yet been provided.

content:

application/json:

schema:

$ref: '#/components/schemas/ApiError'

ForbiddenError:

description: Forbidden - The server understood the request but refuses to authorize it.

content:

application/json:

schema:

$ref: '#/components/schemas/ApiError'

NotFoundError:

description: Not Found - The requested resource could not be found.

content:

application/json:

schema:

$ref: '#/components/schemas/ApiError'

DefaultError: # For non-2xx responses not explicitly defined

description: An unexpected error occurred.

content:

application/json:

schema:

$ref: '#/components/schemas/ApiError'

```

\* \* \* \* \*

### Quick-Start Examples

1. List Active Waypoint Categories (in Italian, page 1, 2 items per page)

- `curl -X GET "https://api.viadifrancesco.example.com/v1/waypoint\_categories?lang=it&page=1&page\_size=2&sort\_by=sort\_order" -H "Authorization: Bearer <YOUR\_ANON\_OR\_USER\_TOKEN>"`

- Sample JSON Response:

JSON

```

{

"data": [

{

"id": 1,

"code": "accommodation\_location",

"label": "Alloggio", // Translated to Italian

"description": "Luoghi di soggiorno per pellegrini.", // Translated

"icon\_identifier": "icon-bed",

"requires\_detail\_table": "accommodations",

"sort\_order": 10,

"is\_active": true,

"created\_at": "2024-01-10T10:00:00Z",

"updated\_at": "2024-01-10T10:00:00Z",

"created\_by\_profile\_id": "system-uuid",

"updated\_by\_profile\_id": "system-uuid"

},

{

"id": 3,

"code": "food\_water\_source",

"label": "Fonte di Cibo e Acqua", // Translated

"description": "Luoghi dove trovare cibo e acqua potabile.", // Translated

"icon\_identifier": "icon-restaurant",

"requires\_detail\_table": "food\_water\_sources\_details",

"sort\_order": 15,

"is\_active": true,

"created\_at": "2024-01-10T10:00:00Z",

"updated\_at": "2024-01-10T10:00:00Z",

"created\_by\_profile\_id": "system-uuid",

"updated\_by\_profile\_id": "system-uuid"

}

],

"pagination": {

"total\_items": 5,

"total\_pages": 3,

"current\_page": 1,

"page\_size": 2

}

}

```

2. Get Waypoint Details (ID 42, default language - English)

- `curl -X GET "https://api.viadifrancesco.example.com/v1/waypoints/42" -H "Authorization: Bearer <YOUR\_ANON\_OR\_USER\_TOKEN>"`

- Sample JSON Response:

JSON

```

{

"id": 42,

"name": "La Verna Sanctuary", // English (default)

"slug": "la-verna-sanctuary",

"alternate\_names\_primary\_lang": ["Monte Penna Sanctuary"],

"waypoint\_primary\_category\_id": 2,

"waypoint\_subcategory\_tag\_ids": [10, 15],

"description": "A major Franciscan sanctuary located on Mount Penna, site of St. Francis receiving the stigmata.", // English

"geom": {

"type": "Point",

"coordinates": [11.9296, 43.7053, 1128]

},

"latitude": 43.7053,

"longitude": 11.9296,

"elevation\_meters": 1128,

"town\_id": 205,

"parent\_waypoint\_id": null,

"address\_text": "Chiusi della Verna, AR, Italy", // English

"primary\_image\_media\_id": "media-uuid-001",

"primary\_thumbnail\_media\_id": "media-uuid-002",

"content\_visibility\_status\_id": 2, // e.g. "published"

"is\_seasonal": false,

"is\_trail\_access\_point": true,

"is\_significant\_trail\_junction": true,

"is\_franciscan\_highlight\_site": true,

"is\_significant\_pilgrim\_poi": true,

"created\_at": "2024-03-01T12:00:00Z",

"created\_by\_profile\_id": "admin-profile-uuid",

"updated\_at": "2024-05-01T15:30:00Z",

"updated\_by\_profile\_id": "admin-profile-uuid",

"deleted\_at": null

}

```

3. Create a New Waypoint (as a Regional Content Manager)

- curl -X POST "https://api.viadifrancesco.example.com/v1/waypoints" -H "Authorization: Bearer <CONTENT\_MANAGER\_JWT\_TOKEN>" -H "Content-Type: application/json" -d '{ "name": "Hermitage Le Celle", "waypoint\_primary\_category\_id": 2, "geom": { "type": "Point", "coordinates": [12.0385, 43.3175, 500] }, "content\_visibility\_status\_id": 1, "description": "A Franciscan hermitage near Cortona, founded by St. Francis himself.", "is\_franciscan\_highlight\_site": true, "is\_significant\_pilgrim\_poi": true, "town\_id": 78 }'

(Note: name and description are provided in English, the primary reference language, for creation.)

- Sample JSON Response (201 Created, assuming no `lang` param was sent with the POST, so response defaults to English for translatable fields):

JSON

```

{

"id": 1025,

"name": "Hermitage Le Celle", // English

"slug": "hermitage-le-celle",

"alternate\_names\_primary\_lang": null,

"waypoint\_primary\_category\_id": 2,

"waypoint\_subcategory\_tag\_ids": null,

"description": "A Franciscan hermitage near Cortona, founded by St. Francis himself.", // English

"geom": {

"type": "Point",

"coordinates": [12.0385, 43.3175, 500]

},

"latitude": 43.3175,

"longitude": 12.0385,

"elevation\_meters": 500,

"town\_id": 78,

"parent\_waypoint\_id": null,

"address\_text": null,

"primary\_image\_media\_id": null,

"primary\_thumbnail\_media\_id": null,

"content\_visibility\_status\_id": 1, // e.g., "draft"

"is\_seasonal": false,

"is\_trail\_access\_point": false,

"is\_significant\_trail\_junction": false,

"is\_franciscan\_highlight\_site": true,

"is\_significant\_pilgrim\_poi": true,

"short\_narrative\_for\_dynamic\_lists": null,

"waypoint\_accessibility\_notes": null,

"general\_tags\_text": null,

"primary\_data\_source\_waypoint": null,

"quality\_score": null,

"created\_at": "2025-05-18T19:30:00Z",

"created\_by\_profile\_id": "regional-manager-uuid",

"updated\_at": "2025-05-18T19:30:00Z",

"updated\_by\_profile\_id": "regional-manager-uuid",

"deleted\_at": null

}

```

\* \* \* \* \*

### Implementation Notes

- SQL Views, Indexes, or Materialized Views:

- Localized Views: The `v\_waypoint\_categories\_localized` and `v\_tags\_localized` views (from `4.0.2 - Views for Module 4.docx`) are key. The API backend should query these, using the `lang` parameter to select the appropriate translated text from the `all\_translations` JSONB object (or the view's primary language `label`/`description` column if `lang` is English or the translation is missing).

- Indexes for Master Tables:

- `waypoint\_categories\_master`: Ensure indexes on `is\_active`, `sort\_order`, `code`. An index on `label` (the English primary) can aid default sorting before translation.

- `tags\_master`: Ensure indexes on `is\_active`, `tag\_type`, `sort\_order`, `tag\_code`. Index `label` (English) similarly.

- `content\_statuses\_master`: Indexes on `is\_active`, `sort\_order`, `code`. Index `label` (English) similarly.

- Indexes for `waypoints` table:

- GIST index on `geom` is essential for spatial queries (`bbox`).

- Indexes on FKs: `waypoint\_primary\_category\_id`, `content\_visibility\_status\_id`, `town\_id`.

- GIN index on `waypoint\_subcategory\_tag\_ids` is crucial for tag filtering.

- GIN index on `name` (the English name column) using `pg\_trgm` (e.g., `idx\_waypoints\_name\_trgm`) for fuzzy text search.

- Index on `deleted\_at` for querying non-deleted waypoints.

- Index for `translations` table: A composite index on `(table\_identifier, row\_foreign\_key, language\_code, column\_identifier)` like `idx\_translations\_lookup` is vital.

- Schema Feedback (Module 4):

- 🟢 Schema OK. The database specifications for `waypoints` (v1.3), `waypoint\_categories\_master` (v1.2), `tags\_master` (v1.3), and `content\_statuses\_master` (v1.2) are comprehensive and support this API model well.

- The database columns for translatable text (e.g., `waypoints.name`, `waypoint\_categories\_master.label`) correctly store the primary reference language (English). The API layer is responsible for using the `lang` parameter to fetch and present the appropriate translation from the `public.translations` table (potentially via the localized views).

- The trigger `trigger\_check\_waypoint\_subcategory\_tags` on `waypoints` to ensure integrity of `waypoint\_subcategory\_tag\_ids` against `tags\_master` (including its `is\_active` status) remains critical.

\* \* \* \* \*