<https://gemini.google.com/u/1/app/8f9ebd64aa0fd57f>

Okay, I'm ready.

CREATE OPENAPI FOR UserInteractionModule

### 1\. OpenAPI 3.1 Spec (for UserInteractionModule)

YAML

```

openapi: 3.1.0

info:

title: User Interaction API

version: v1.0.0

description: |-

API for managing user interactions like waypoint tips and votes, and tip categories.

Supports multilingual content for categories.

servers:

- url: https://api.pilgrimage-platform.com/v1 # Conceptual

description: Main API server

components:

securitySchemes:

BearerAuth: # Standard Bearer Token anuth for authenticated users

type: http

scheme: bearer

bearerFormat: JWT

schemas:

Error:

type: object

properties:

code:

type: string

description: An application-specific error code.

example: "validation\_failed"

message:

type: string

description: A human-readable message providing more details about the error.

example: "Input validation failed for one or more fields."

details: # Optional: for field-specific errors

type: object

additionalProperties:

type: string

example:

field\_name: "Error message for this specific field."

required:

- code

- message

Pagination:

type: object

properties:

current\_page:

type: integer

description: The current page number.

example: 1

per\_page:

type: integer

description: Number of items requested per page.

example: 10

total\_items:

type: integer

description: Total number of items available.

example: 123

total\_pages:

type: integer

description: Total number of pages available.

example: 13

required:

- current\_page

- per\_page

- total\_items

- total\_pages

TipCategory: # Based on tip\_categories\_master and view\_tip\_categories\_localized

type: object

properties:

category\_code:

type: string

description: Unique code for the category.

example: "practical\_advice"

default\_name: # This is the 'name\_en' if English is primary reference

type: string

description: Name of the category in the primary reference language (e.g., English).

example: "Practical Advice"

name\_translations:

type: object

additionalProperties:

type: string

description: "Key-value map of language codes to translated category names. May contain only the translation for a requested 'lang' parameter."

example:

it: "Consiglio Pratico"

default\_description:

type: string

nullable: true

description: Description of the category in the primary reference language.

example: "General tips related to practicality, gear, or general information."

description\_translations:

type: object

nullable: true

additionalProperties:

type: string

description: "Key-value map of language codes to translated category descriptions. May contain only the translation for a requested 'lang' parameter."

example:

it: "Consigli generali relativi alla praticità, attrezzatura o informazioni generali."

icon\_identifier:

type: string

nullable: true

description: Optional identifier for a UI icon.

example: "icon-lightbulb"

sort\_order:

type: integer

format: int32 # smallint

description: Sort order for UI display.

example: 10

# is\_active is true due to view/endpoint filtering, not usually returned in a list of active items

# Audit fields (created\_at, etc.) can be added if needed for API response

required:

- category\_code

- default\_name

TipCategoryListResponse:

type: object

properties:

data:

type: array

items:

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

required:

- data

AuthorSummary:

type: object

properties:

profile\_id:

type: string

format: uuid

description: Profile ID of the author.

public\_display\_name:

type: string

nullable: true

description: Public display name of the author.

# avatar\_url: string (optional, would require join to media)

required:

- profile\_id

WaypointTip: # Based on user\_waypoint\_short\_tips

type: object

properties:

id:

type: integer

format: int64 # bigint

description: Unique ID of the tip.

readOnly: true

tip\_text:

type: string

description: The content of the tip (max 500 characters).

example: "Great place for a quick break and water refill!"

language\_code:

type: string

description: Language code of the submitted tip\_text.

example: "en"

tip\_category: # Nested summary of the category

type: object

properties:

category\_code:

type: string

example: "practical\_advice"

default\_name:

type: string

example: "Practical Advice"

localized\_name: # Name localized to requested lang param

type: string

example: "Practical Advice" # or "Consiglio Pratico" if lang=it

required:

- category\_code

- default\_name

- localized\_name

nullable: true

author:

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

is\_pinned\_by\_admin:

type: boolean

description: True if an admin has pinned this tip.

created\_at:

type: string

format: date-time

description: Timestamp of tip creation.

readOnly: true

# Moderation fields (moderation\_status, moderated\_by\_profile\_id etc.) are typically not exposed on public GET list.

# They would be part of an admin-specific endpoint or GET /tips/{tip\_id}/details\_with\_moderation\_info

required:

- id

- tip\_text

- language\_code

- author

- is\_pinned\_by\_admin

- created\_at

WaypointTipListResponse:

type: object

properties:

data:

type: array

items:

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

pagination:

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

required:

- data

- pagination

NewWaypointTipRequest:

type: object

properties:

tip\_text:

type: string

maxLength: 500

description: The content of the tip.

language\_code:

type: string

description: Language code of the submitted tip.

example: "en"

tip\_category\_code:

type: string

nullable: true

description: Optional category code for the tip.

example: "practical\_advice"

required:

- tip\_text

- language\_code

TipModerationRequest: # For PATCH /admin/tips/{tip\_id}/moderation

type: object

properties:

moderation\_status:

$ref: '#/components/schemas/ContentModerationStatusEnum' # Defined below

is\_pinned\_by\_admin:

type: boolean

moderation\_notes\_internal:

type: string

nullable: true

required:

- moderation\_status

ContentModerationStatusEnum:

type: string

enum:

- pending\_approval

- approved\_visible

- rejected\_hidden

- flagged\_for\_review\_by\_admin

- archived\_by\_admin

WaypointVote: # Response for POST/GET my\_vote

type: object

properties:

waypoint\_id:

type: integer # Assuming integer, confirm with waypoints.id type

description: ID of the waypoint voted on.

profile\_id:

type: string

format: uuid

description: ID of the profile that cast the vote.

vote\_type:

$ref: '#/components/schemas/VoteTypeEnum' # Defined below

created\_at:

type: string

format: date-time

updated\_at:

type: string

format: date-time

# deleted\_at is usually not exposed directly, vote presence implies not deleted

required:

- waypoint\_id

- profile\_id

- vote\_type

- created\_at

- updated\_at

NewWaypointVoteRequest:

type: object

properties:

vote\_type:

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

required:

- vote\_type

VoteTypeEnum:

type: string

enum:

- up

- down

security: # Global security, can be overridden at operation level

- BearerAuth: []

paths:

/tip\_categories:

get:

summary: List Tip Categories

description: Retrieves a list of active tip categories, localized to the requested language.

tags:

- Tip Categories

parameters:

- name: lang

in: query

description: ISO language code for localization (e.g., 'it', 'en').

required: false

schema:

type: string

- name: sort\_by

in: query

description: Field to sort by (e.g., 'sort\_order', 'localized\_name'). Default 'sort\_order'.

required: false

schema:

type: string

- name: order

in: query

description: Sort order ('asc' or 'desc'). Default 'asc'.

required: false

schema:

type: string

enum: [asc, desc]

responses:

'200':

description: A list of tip categories.

# Uses view\_tip\_categories\_localized for optimized DB query

content:

application/json:

schema:

$ref: '#/components/schemas/TipCategoryListResponse' # Actually an array directly for now

# type: array

# items:

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

default:

description: Unexpected error.

content:

application/json:

schema:

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

/admin/tip\_categories: # Exemplar WRITE for TipCategory (Admin)

post:

summary: Create Tip Category (Admin)

description: Allows an administrator to create a new tip category.

tags:

- Tip Categories Admin

security:

- BearerAuth: ['admin'] # Conceptual scope for admin

requestBody:

required: true

content:

application/json:

schema: # Define a specific request schema if different from TipCategory response

type: object

properties:

category\_code:

type: string

default\_name:

type: string

default\_description:

type: string

nullable: true

icon\_identifier:

type: string

nullable: true

sort\_order:

type: integer

format: int32

is\_active: # Admin can set this on creation

type: boolean

default: true

required:

- category\_code

- default\_name

responses:

'201':

description: Tip category created successfully.

content:

application/json:

schema:

$ref: '#/components/schemas/TipCategory' # Returns the created category

'400': # Bad Request (e.g. validation error, code exists)

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

'401': # Unauthorized

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

'403': # Forbidden (not admin)

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

default:

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

/waypoints/{waypoint\_id}/tips:

get:

summary: List Tips for a Waypoint

description: Retrieves publicly visible tips for a specific waypoint.

tags:

- Waypoint Tips

parameters:

- name: waypoint\_id

in: path

required: true

description: ID of the waypoint.

schema:

type: integer # Assuming integer, confirm with waypoints.id type

- name: lang

in: query

description: ISO language code for localizing tip category names.

required: false

schema:

type: string

- name: tip\_category\_code

in: query

description: Filter tips by a specific category code.

required: false

schema:

type: string

- name: page

in: query

description: Page number for pagination.

required: false

schema:

type: integer

default: 1

- name: per\_page

in: query

description: Number of tips per page.

required: false

schema:

type: integer

default: 10

- name: sort\_by

in: query

description: "Sort option (e.g. 'created\_at', 'pinned\_first'). Default 'pinned\_first' (is\_pinned\_by\_admin DESC, created\_at DESC)."

required: false

schema:

type: string

- name: order

in: query

description: "Sort order ('asc', 'desc'). Default 'desc' if sort\_by is 'created\_at'."

required: false

schema:

type: string

enum: [asc, desc]

responses:

'200':

description: A list of tips for the waypoint.

# Query leverages user\_waypoint\_short\_tips.is\_publicly\_visible and idx\_user\_waypoint\_short\_tips\_visibility

# Joins with profiles and view\_tip\_categories\_localized (or similar logic)

content:

application/json:

schema:

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

'404': # Waypoint not found

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

default:

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

post: # Exemplar WRITE for WaypointTip (User)

summary: Submit a New Tip for a Waypoint

description: Allows an authenticated user to submit a new tip for a waypoint.

tags:

- Waypoint Tips

security:

- BearerAuth: [] # Requires authenticated user

parameters:

- name: waypoint\_id

in: path

required: true

description: ID of the waypoint to submit the tip for.

schema:

type: integer # Assuming integer, confirm

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'201':

description: Tip submitted successfully (pending moderation).

content:

application/json:

schema:

$ref: '#/components/schemas/WaypointTip' # Returns the created tip (with its initial state)

'400': # Bad Request (validation)

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

'401': # Unauthorized

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

'404': # Waypoint not found

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

default:

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

/admin/tips/{tip\_id}/moderation: # Exemplar WRITE for WaypointTip (Admin Moderation)

patch:

summary: Moderate a Waypoint Tip (Admin)

description: Allows an administrator/moderator to update the moderation status of a tip.

tags:

- Waypoint Tips Admin

security:

- BearerAuth: ['moderator', 'admin'] # Conceptual scopes

parameters:

- name: tip\_id

in: path

required: true

description: ID of the tip to moderate.

schema:

type: integer

format: int64

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200':

description: Tip moderation status updated successfully.

content:

application/json:

schema:

$ref: '#/components/schemas/WaypointTip' # Returns the updated tip

'400': # Bad Request (validation)

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

'401': # Unauthorized

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

'403': # Forbidden (not moderator/admin)

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

'404': # Tip not found

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

default:

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

/waypoints/{waypoint\_id}/votes: # Exemplar WRITE for WaypointVote (User)

post:

summary: Cast or Update Vote for a Waypoint

description: Allows an authenticated user to cast or change their vote (up/down) for a waypoint. Handles UPSERT logic.

tags:

- Waypoint Votes

security:

- BearerAuth: [] # Requires authenticated user

parameters:

- name: waypoint\_id

in: path

required: true

description: ID of the waypoint to vote on.

schema:

type: integer # Assuming integer, confirm

requestBody:

required: true

content:

application/json:

schema:

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

responses:

'200': # Could be 200 for update, 201 for new vote. Simplified to 200 for UPSERT.

description: Vote cast/updated successfully.

content:

application/json:

schema:

$ref: '#/components/schemas/WaypointVote' # Returns the current state of the vote

'400': # Bad Request (validation)

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

'401': # Unauthorized

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

'404': # Waypoint not found

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

default:

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

delete:

summary: Retract Vote for a Waypoint

description: Allows an authenticated user to retract (soft delete) their vote for a waypoint.

tags:

- Waypoint Votes

security:

- BearerAuth: []

parameters:

- name: waypoint\_id

in: path

required: true

description: ID of the waypoint from which to retract the vote.

schema:

type: integer # Assuming integer, confirm

responses:

'204':

description: Vote retracted successfully.

'401':

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

'404': # Vote not found (or waypoint not found)

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

default:

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

# Shared response components (can be expanded)

responses:

NotFoundError:

description: The specified resource was not found.

content:

application/json:

schema:

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

BadRequestError:

description: The request was malformed or invalid.

content:

application/json:

schema:

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

UnauthorizedError:

description: Authentication credentials were not provided or are invalid.

content:

application/json:

schema:

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

ForbiddenError:

description: The authenticated user does not have permission to perform this action.

content:

application/json:

schema:

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

DefaultError:

description: An unexpected error occurred.

content:

application/json:

schema:

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

```

\* \* \* \* \*

### 2\. Quick-Start Examples

1. List active tip categories (localized to Italian):

Bash

```

curl -X GET "https://api.pilgrimage-platform.com/v1/tip\_categories?lang=it"\

-H "Authorization: Bearer <USER\_JWT\_TOKEN>"\

-H "apikey: <SUPABASE\_ANON\_KEY>"

```

Sample Response:

JSON

```

{

"data": [

{

"category\_code": "practical\_advice",

"default\_name": "Practical Advice",

"name\_translations": {

"it": "Consiglio Pratico"

},

"default\_description": "General tips related to practicality, gear, or general information.",

"description\_translations": {

"it": "Consigli generali relativi alla praticità, attrezzatura o informazioni generali."

},

"icon\_identifier": "icon-lightbulb",

"sort\_order": 10

}

]

}

```

2. Submit a new tip for waypoint with ID 789:

Bash

```

curl -X POST "https://api.pilgrimage-platform.com/v1/waypoints/789/tips"\

-H "Authorization: Bearer <USER\_JWT\_TOKEN>"\

-H "apikey: <SUPABASE\_ANON\_KEY>"\

-H "Content-Type: application/json"\

-d '{

"tip\_text": "Fantastic panoramic view just off the main trail here!",

"language\_code": "en",

"tip\_category\_code": "hidden\_gem"

}'

```

Sample Response (201 Created):

JSON

```

{

"id": 123, // New tip ID

"tip\_text": "Fantastic panoramic view just off the main trail here!",

"language\_code": "en",

"tip\_category": {

"category\_code": "hidden\_gem",

"default\_name": "Hidden Gem", // Assuming English is default

"localized\_name": "Hidden Gem" // Assuming lang not specified or matched default

},

"author": {

"profile\_id": "uuid-current-user",

"public\_display\_name": "CurrentUserDisplay"

},

"is\_pinned\_by\_admin": false,

"created\_at": "2025-05-18T21:30:00Z"

// moderation\_status would be 'pending\_approval' server-side

}

```

3. Admin moderates tip with ID 123 (approves it):

Bash

```

curl -X PATCH "https://api.pilgrimage-platform.com/v1/admin/tips/123/moderation"\

-H "Authorization: Bearer <ADMIN\_JWT\_TOKEN>"\

-H "apikey: <SUPABASE\_ANON\_KEY>"\

-H "Content-Type: application/json"\

-d '{

"moderation\_status": "approved\_visible",

"is\_pinned\_by\_admin": false

}'

```

Sample Response (200 OK):

JSON

```

{

"id": 123,

"tip\_text": "Fantastic panoramic view just off the main trail here!",

"language\_code": "en",

// ... other fields ...

"is\_pinned\_by\_admin": false,

"created\_at": "2025-05-18T21:30:00Z"

// now is\_publicly\_visible would be true

}

```

\* \* \* \* \*

### 3\. Implementation Notes

- 🟢 Schema OK for Endpoints: The current database schema for `tip\_categories\_master`, `user\_waypoint\_short\_tips`, and `user\_waypoint\_votes` largely supports these API endpoints.

- Views for Optimization & Simplification:

- `public.view\_tip\_categories\_localized`: Crucial for the `GET /tip\_categories` endpoint and for providing localized category data to the `GET /waypoints/{waypoint\_id}/tips` endpoint. Ensure this view is created and includes `default\_name`, `default\_description`, `localized\_name`, and `localized\_description` (based on `current\_setting('app.current\_lang', true)`).

- `public.view\_waypoint\_tips\_detailed` (Recommended): For `GET /waypoints/{waypoint\_id}/tips`, creating a dedicated view that joins `user\_waypoint\_short\_tips` with `profiles` (for author `public\_display\_name`), `media` (for author `avatar\_url` via `profiles.public\_avatar\_media\_id`), and `public.view\_tip\_categories\_localized` (for category details) would greatly simplify the API data retrieval logic and improve maintainability.

- Indexes:

- Existing indexes on `user\_waypoint\_short\_tips` (`idx\_user\_waypoint\_short\_tips\_visibility`, `idx\_user\_waypoint\_short\_tips\_tip\_category\_code`) are good.

- `view\_tip\_categories\_localized` relies on indexes on `tip\_categories\_master` (`PK`, `ix\_tip\_categories\_master\_active\_order`) and `translations` (`idx\_translations\_lookup`), which are in place.

- Language Handling: The `lang` query parameter should be used by the API backend to set the `app.current\_lang` PostgreSQL session variable before querying views like `view\_tip\_categories\_localized`.

- Write Operations:

- `POST /waypoints/{waypoint\_id}/votes`: Backend logic will need to handle the UPSERT behavior (insert if no vote, update if vote exists, manage `deleted\_at` for retractions/re-votes) for the current authenticated user (`auth.uid()`). The `update\_waypoint\_vote\_counts()` trigger is critical here.

- `POST /waypoints/{waypoint\_id}/tips`: Sets `profile\_id` from `auth.uid()` and `moderation\_status` to `'pending\_approval'` by default.

- `PATCH /admin/tips/{tip\_id}/moderation`: Requires robust authorization to ensure only moderators/admins can call it. Updates `moderation\_status`, `moderated\_by\_profile\_id` (from `auth.uid()`), `moderation\_timestamp`.

- 🔴 Critical Dependencies (from previous reviews, re-iterated):

- `waypoint\_id` Data Type: Must be consistent between `waypoints.id` and referencing columns in `user\_waypoint\_short\_tips` and `user\_waypoint\_votes`.

- Moderator Check Function: The `public.check\_if\_user\_is\_moderator(UUID)` function (or equivalent) needs to be implemented for RLS on `user\_waypoint\_short\_tips` to work for moderator actions.

- `waypoints` table vote counts: Columns `up\_vote\_count`, `down\_vote\_count` must exist on `public.waypoints` for the `update\_waypoint\_vote\_counts()` trigger to function.

- User Tip Updates: The `PATCH /tips/{tip\_id}` endpoint for users to update their own tips (e.g., retract via `deleted\_at`, or edit `tip\_text` if `moderation\_status` is `pending\_approval`) needs careful RLS and potentially trigger logic if editing an approved tip should reset its moderation status. This was discussed in the `user\_waypoint\_short\_tips` spec. (This specific PATCH endpoint wasn't detailed in the YAML above to keep it to "one exemplar" but is a related consideration for a complete API).