

Routes Documentation:-

User Management Endpoints

`GET /api/users`

Retrieves a list of all users in the system.
Access restricted to users with the `ADMIN` role.

`GET /api/users/{id}`

Fetches the user record for the specified `id`, clearing sensitive fields before returning.
Accessible to roles `USER`, `EVENT_ORGANIZER`, or `ADMIN`.

`DELETE /api/users/{id}`

Removes the user with the given `id` from the in-memory store.
Access restricted to users with the `ADMIN` role.

`GET /api/users/all`

Public endpoint that returns a simple "Public Content." string.
No authentication or role required.

`GET /api/users/user`

Returns "User Content." for authenticated users.
Accessible to roles `USER`, `EVENT_ORGANIZER`, or `ADMIN`.

`GET /api/users/organizer`

Returns "Event Organizer Board." for event organizers.
Accessible only to users with the `EVENT_ORGANIZER` role.

`GET /api/users/admin`

Returns "Admin Board." for administrators.
Accessible only to users with the `ADMIN` role.

User-Event Association Endpoints

`POST /api/users/{userId}/events/{eventId}`

Adds the event identified by `eventId` to the user's list of events.
Returns success or error message in JSON.

`DELETE /api/users/{userId}/events/{eventId}`

Removes the event identified by `eventId` from the user's list.
Returns success or error message in JSON.

Wallet Service Endpoints

`GET /api/wallet/balance-alt?userId={userId}`

Alias for the balance endpoint; returns wallet balance in a JSON map.
Requires a valid Bearer token in the `Authorization` header.

`GET /api/wallet/balance?userId={userId}`

Retrieves the current wallet balance for the given userId.
Returns a JSON object with `userId`, `balance`, and optional `message`.

`POST /api/wallet/add-funds?userId={userId}&amount={amount}`

Adds funds to the user's wallet and returns updated balance.
Requires a valid Bearer token in the `Authorization` header.

****`POST /api/wallet/deduct-funds?userId={userId}&amount={amount}`****

Deducts funds from the user's wallet and returns updated balance.

Requires a valid Bearer token in the `Authorization` header.

****`POST /api/wallet/create-wallet?userId={userId} [&initialBalance={balance}]`****

Creates a new wallet for the user with an optional initial balance (default 1000).

Requires a valid Bearer token in the `Authorization` header.

****`GET /api/wallet/transactions?userId={userId}`****

Fetches the transaction history for the specified user.

Requires a valid Bearer token in the `Authorization` header.

****`GET /api/wallet/check-wallet?userId={userId}`****

Checks whether a wallet exists for the specified user.

Requires a valid Bearer token in the `Authorization` header.

****`GET /api/wallet/test-token`****

Echoes back the received `Authorization` header and extracted token.

Useful for debugging token extraction logic; no auth enforced.

****`POST /api/wallet/init-db`****

Initializes (mocks) the wallet database for testing purposes.

Returns a JSON success message.

****Web Page Controller Endpoints****

****`GET /google-login`****

Serves the Google login HTML page view.

No JSON; returns a rendered template.

****`GET /auth-success`****

Serves the authentication success page view after OAuth.

No JSON; returns a rendered template.

****`GET /auth-error`****

Serves the authentication error page view for failed logins.

No JSON; returns a rendered template.

AuthController (disabled; no base path)

Note: This controller is disabled in favor of SupabaseAuthController.

POST /signin

Description: Authenticates a user by email and password via Supabase.

Method: POST

POST /signup

Description: Registers a new user account using email and password via Supabase.

Method: POST

POST /signout

Description: Signs the user out of the current session and returns a confirmation message.

Method: POST

POST /reset-password

Description: Initiates a password reset flow for the given email address.

Method: POST

POST /email/signup

Description: Registers a new user using a raw EmailAuthRequest payload.

Method: POST

POST /email/signin

Description: Authenticates a user using a raw EmailAuthRequest payload.

Method: POST

POST /phone/signup

Description: Registers a new user using phone number authentication.

Method: POST

POST /phone/signin

Description: Sends an OTP to the given phone number and returns an empty 200 response on success.

Method: POST

POST /phone/verify-otp

Description: Verifies a one-time password (OTP) and completes phone-based sign-in.

Method: POST

OAuthController (/api/oauth)

GET|POST /api/oauth/google

Description: Returns a JSON object containing the Google OAuth sign-in URL.

Method: GET, POST

GET /api/oauth/callback?code={code}

Description: Handles the OAuth callback, exchanges the code for tokens, and returns an AuthResponse.

Method: GET

GET /api/oauth/success?token={token}&refresh_token={refresh_token}&expires_in={expiresIn}]

Description: Redirects the browser to the front-end success page with the issued tokens.

Method: GET

GET|POST /api/oauth/google/redirect

Description: Redirects the user's browser to the Google OAuth consent screen.

Method: GET, POST

SupabaseAuthController (/api/auth)

POST /api/auth/signup

Description: Creates a new user account with email and password, returning an AuthResponse.
Method: POST

POST /api/auth/signin

Description: Authenticates a user by email and password and returns an AuthResponse.
Method: POST

POST /api/auth/signout

Description: Signs out the user identified by the bearer token in the Authorization header.
Method: POST

GET /api/auth/validate

Description: Validates the session token from the Authorization header and returns session status.
Method: GET

POST /api/auth/reset-password

Description: Sends a password reset email to the address in ResetPasswordRequest.
Method: POST

NotificationController (/api/notifications)

POST /api/notifications/send

Description: Sends a new notification using the provided NotificationRequest in the request body.

Method: POST

GET /api/notifications/user/{userId}

Description: Retrieves all notifications associated with the user identified by the given userId.

Method: GET

POST /api/notifications/command/{action}/{id}

Description: Executes an action (e.g., mark as read, delete) on a notification with the specified id.

Method: POST

SearchController (/api/search)

GET /api/search

Description: Searches for events by optional parameters such as keyword, location, and date range (fromDate, toDate).

Method: GET

****BookingController Endpoints****

****POST /bookings?roomType={roomType}&nights={nights}****

Attempts to book a room of the specified type for the given number of nights by consulting the availability client.

Returns the generated booking ID on success or HTTP 400 if availability check fails.

****POST /bookings/events/{eventId}?userId={userId}****

Creates a new booking for the specified event and user, returning a JSON object with `bookingId`, `eventId`, `userId`, and `status`.

Returns HTTP 200 on success or HTTP 400 with an error message on failure.

****DELETE /bookings/{bookingId}****

Cancels the booking identified by `bookingId` and returns HTTP 204 No Content on success.

Always returns HTTP 204, even if the booking did not previously exist.

****POST /bookings/{bookingId}/refund****

Processes a refund for the booking identified by `bookingId`.

Returns HTTP 200 OK on success.

****POST /bookings/events/payment?userId={userId}&eventId={eventId}****

Processes payment for the specified user and event, returning a JSON object with `success` and `message`.

Returns HTTP 200 on success or HTTP 500 with an error message on failure.

****POST /bookings/events/refund?userId={userId}&eventId={eventId}****

Processes a refund for the specified user and event, returning a JSON object with `success` and `message`.

Returns HTTP 200 on success or HTTP 500 with an error message on failure.

`CategoryController`:

* **GET `/api/categories`** – Fetch all categories.

Response: List of `Category` objects.

* **GET `/api/categories/{id}`** – Fetch a category by its ID.

Response: A single `Category` object.

* **POST `/api/categories`** – Create a new category.

Request: `Category` object in the body, **Response:** Created `Category`.

* **PUT `/api/categories/{id}`** – Update an existing category.

Request: Updated `Category` in body, **Response:** Updated `Category`.

* **DELETE `/api/categories/{id}`** – Delete a category by its ID.

Response: Confirmation map with `deleted = true`.

****`EventController`**:**

- * ****GET `/api/events`**** – Fetch all events with pagination and sorting.
****Query Params:**** `page`, `size`, `sortBy`, `direction`
****Response:**** Paginated list of `Event` objects with metadata.
- * ****GET `/api/events/{id}`**** – Fetch an event by its ID.
****Response:**** Single `Event` object.
- * ****POST `/api/events`**** – Create a new event.
****Request:**** `Event` object in body, optional `categories` as query params
****Response:**** Created `Event`.
- * ****PUT `/api/events/{id}`**** – Update an existing event.
****Request:**** Updated `Event` object in body, optional `categories` as query params
****Response:**** Updated `Event`.
- * ****DELETE `/api/events/{id}`**** – Delete an event by its ID.
****Response:**** Confirmation map with `deleted = true`.
- * ****GET `/api/events/organizer/{organizerId}`**** – Get events by organizer with pagination.
****Query Params:**** `page`, `size`
****Response:**** Paginated list of events.
- * ****GET `/api/events/public`**** – Get all public events with pagination.
****Query Params:**** `page`, `size`
****Response:**** Paginated list of public events.
- * ****GET `/api/events/upcoming`**** – Get upcoming events with pagination.
****Query Params:**** `page`, `size`
****Response:**** Paginated list of upcoming events.
- * ****GET `/api/events/category/{categoryId}`**** – Get events by category with pagination.
****Query Params:**** `page`, `size`
****Response:**** Paginated list of events in that category.
- * ****GET `/api/events/search`**** – Search events by keyword with pagination.
****Query Params:**** `keyword`, `page`, `size`
****Response:**** Paginated list of matching events.
- * ****PATCH `/api/events/{id}/publish`**** – Publish an event by ID.
****Response:**** Updated `Event`.
- * ****PATCH `/api/events/{id}/unpublish`**** – Unpublish an event by ID.
****Response:**** Updated `Event`.
- * ****PATCH `/api/events/{id}/type`**** – Change event type.
****Query Params:**** `eventType` (enum)
****Response:**** Updated `Event`.
- * ****POST `/api/events/{id}/signup`**** – Sign up a user to an event.
****Query Params:**** `userId`
****Response:**** Updated `Event` or error message.
- * ****GET `/api/events/participant/{userId}`**** – Get events a user is participating in with pagination.
****Query Params:**** `page`, `size`

****Response:**** Paginated list of events.

* ****GET `/api/events/user/{userId}`**** – Get all events related to a user (organizer & participant) with pagination.

****Query Params:**** `page`, `size`

****Response:**** Paginated list of events.

* ****GET `/api/events/available`**** – Get events with available tickets with pagination.

****Query Params:**** `page`, `size`

****Response:**** Paginated list of events.

* ****GET `/api/events/{id}/available-tickets`**** – Get available tickets count for a specific event.

****Response:**** Map with `eventId` and `availableTickets`.

* ****PUT `/api/events/{id}/available-tickets`**** – Adjust available tickets count by delta.

****Query Params:**** `delta` (int)

****Response:**** No content (status 200).

* ****POST `/api/events/{id}/book`**** – Book tickets for an event.

****Query Params:**** `userId`, `numberOfTickets` (default 1)

****Response:**** Booking details or error message.

* ****POST `/api/events/{eventId}/participants/{userId}`**** – Add participant to event.

****Response:**** Success message or error.

* ****DELETE `/api/events/{eventId}/participants/{userId}`**** – Remove participant from event.

****Response:**** Success message or error.

* ****GET `/api/events/{eventId}/participants/{userId}`**** – Check if user is registered for event.

****Response:**** Map with `isRegistered` boolean or error.