

# TEN AudioNova – Full API Reference

## Auth & Accounts API

**POST /api/auth/register/**

Register a new user.

**Body:**

```
{
  "username": "<username>",
  "email": "<prefix>@<domain>.com",
  "password": "<pwd>" # must be 8 characters long.
}
```

**Response:**

```
{ "message": "User created. Check email for verification link." }
```

**Response (Error):**

```
json
{
  "email": ["A user with this email already exists."],
  "password": ["Password must be at least 8 characters long."]
}
```

---

**GET /api/auth/verify-email/<token>/**

Verify user's email.

**Response:**

```
{ "message": "Email verified successfully." }
```

---

**POST /api/auth/login/**

Login and receive JWT tokens.

**Body:**

```
{
  "email": "<email>",
  "password": "<pwd>"
}
```

#### Response:

```
{
  "access": "<JWT_ACCESS_TOKEN>",
  "user": {
    "id": 1,
    "username": "john_doe",
    "email": "john@example.com"
  }
}
```

#### Response (Error):

```
json
{
  "non_field_errors": ["Invalid email or password."]
}
```

---

## Forgot Password

**POST** /api/auth/forgot-password/

#### Request Body:

```
json
{
  "email": "john@example.com"
}
```

#### Response (Success):

```
json
{
  "message": "Password reset email sent. Check your email for the reset link."
}
```

---

## Reset Password

**POST** /api/auth/reset-password/{token}/

**Request Body:**

```
json
{
  "new_password": "newsecurepassword123",
  "confirm_password": "newsecurepassword123"
}
```

**Response (Success):**

```
json
{
  "message": "Password reset successfully. You can now log in with your new password."
}
```

---

**POST** /api/auth/token/refresh/

Refresh access token.

**Body:**

```
{
  //body is empty. cookie implementation
}
```

**Response:**

```
{
  "access": "<JWT_ACCESS_TOKEN>",
  "user": {
    "id": 1,
    "username": "john_doe",
    "email": "john@example.com"
  }
}
```

---

 **Music & Playlists API**

## GET /api/songs/

List songs uploaded by the authenticated user.

### Headers:

Authorization: Bearer <access\_token>

### Response:

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 8,
      "user": "<username>",
      "title": "<song_title>",
      "duration": "00:00:10",
      "file": "http://localhost:8000/media/songs/<song_file>",
      "genre": "<song_genre>",
      "play_count": 0,
      "like_count": 0,
      "public": false,
      "created_at": "2025-05-30T05:16:03.440708Z"
    }
  ]
}
```

# \ - pagination meta data

# Default is true; can be updated via PUT or set during

POST

## POST /api/songs/

Upload a new song.

### Headers:

Authorization: Bearer <access\_token>

Content-Type: multipart/form-data

### Body (form-data):

file=<audio\_file>  
title=Lo-fi Chill  
genre=lofi

### Response:

```
{
  "id": 2,
  "user": "<username>",
  "title": "<song_title>",
  "duration": "00:00:10",
}
```

# Duration is automatically calculated using mutagen

```
"file": "http://localhost:8000/media/songs/<audio_file>",
"genre": "<song_genre>",
"play_count": 0,
"like_count": 0,
"public": true, # Default is true; can be updated via PUT or set during POST
"created_at": "2025-05-30T05:16:03.440708Z"
}
```

---

### PUT /api/songs/{id}

Update full song record.

PUT /api/songs/2/

#### Headers:

Authorization: Bearer <access\_token>

Content-Type: application/json

#### Body (form-data):

```
{
  "title": "New Title",
  "genre": "jazz",
  "public": false
}
```

#### Response:

```
{
  "id": 2,
  "user": "<username>",
  "title": "<song_title>",
  "duration": "00:00:10", # Duration is automatically calculated using mutagen
  "file": "http://localhost:8000/media/songs/<audio_file>",
  "genre": "<song_genre>",
  "play_count": 0,
  "like_count": 0,
  "public": false,
  "created_at": "2025-05-30T05:16:03.440708Z"
}
```

---

### PATCH /api/songs/{id}

Partial update.

**PATCH /api/songs/2/**

**Headers:**

Authorization: Bearer <access\_token>

Content-Type: application/json

**Body (form-data):**

```
{
  "title": "New Title",
}
```

**Response:**

```
{
  "id": 2,
  "user": "<username>",
  "title": "<song_new_title>",
  "duration": "00:00:10", # Duration is automatically calculated using mutagen
  "file": "http://localhost:8000/media/songs/<audio_file>",
  "genre": "<song_genre>",
  "play_count": 0,
  "like_count": 0,
  "public": false,
  "created_at": " 2025-06-21T04:30:43.431329Z"
}
```

---

**DELETE /api/songs/{id}**

Delete song.

**DELETE /api/songs/2/**

**Headers:**

Authorization: Bearer <access\_token>

---

**GET /api/public-playlists/**

Browse all public playlists.

**Response:**

```
{
  "count": 1,
}
```

```
"next": null,
"previous": null,
"results": [
  {
    "id": 1,
    "name": "piano",
    "is_public": true,
    "cover_image": null,
    "created_at": "2025-06-20T00:46:29.146136Z"
  }
]
}
```

---

### POST /api/playlists/

Create a new playlist.

#### Headers:

```
Authorization: Bearer <access_token>
Content-Type: multipart/form-data
```

#### Body(form-data):

```
{
  "name": "Evening Vibes",
  "is_public": true,
  "cover_image": "<image_file>"
}
```

#### Response:

```
{
  "id": 3,
  "name": "Evening Vibes",
  "is_public": true,
  "cover_image": "http://localhost:8000/media/covers/<image_file>",
  "created_at": "2025-05-30T09:21:19.019503Z"
}
```

---

### GET /api/playlists/

List your playlists.

#### Headers:

```
Authorization: Bearer <access_token>
```

**Response:**

```
{
  "id": 3,
  "name": "Evening Vibes",
  "is_public": true,
  "cover_image": "http://localhost:8000/media/covers/<image_file>",
  "created_at": "2025-05-30T09:21:19.019503Z"
}
```

---

**GET /api/playlists/{id}/**

Get playlist by ID.

**Headers:**

Authorization: Bearer <access\_token>

**Response:**

```
{
  "id": 3,
  "name": "Evening Vibes",
  "is_public": true,
  "cover_image": "http://localhost:8000/media/covers/<image_file>",
  "created_at": "2025-05-30T09:21:19.019503Z"
}
```

---

**PUT /api/playlists/{id}**

Update full playlists.

**PUT /api/playlists/2/**

**Headers:**

Authorization: Bearer <access\_token>

Content-Type: application/json

**Body (form-data):**

```
{
  "name": "New Title",
```



```
}
```

**Response:**

```
{  
  "id": 2,  
  "name": "New Title",  
  "is_public": false,  
  "created_at": "2025-05-30T05:16:03.440708Z"  
}
```

---

**PATCH /api/playlists/{id}**

Partial update.

**PATCH /api/playlists/2/**

**Headers:**

Authorization: Bearer <access\_token>

Content-Type: application/json

**Body (form-data):**

```
{  
  "title": "New Title",  
}
```

**Response:**

```
{  
  "id": 2,  
  "name": "New Title",  
  "is_public": false,  
  "created_at": "2025-05-30T05:16:03.440708Z"  
}
```

---

**DELETE /api/playlists/{id}**

Delete song.

**DELETE /api/playlists/2/**

**Headers:**

```
Authorization: Bearer <access_token>
```

---

**POST /api/playlist-songs/**

Add a song to a playlist.

**Headers:**

```
Authorization: Bearer <access_token>  
Content-Type: application/json
```

**Body:**

```
{  
  "playlist": clam,  
  "song": clam lo-fi beat  
}
```

**Response:**

```
{  
  "id": 1,  
  "playlist": clam,  
  "song": clam lo-fi beat  
}
```

---

**GET /api/playlist-songs/**

List all playlist-song relations.

**Headers:**

```
Authorization: Bearer <access_token>  
Content-Type: application/json
```

**Response:**

```
{  
  "id": 1,  
  "playlist": clam,  
  "song": clam lo-fi beat  
}
```

---

**PUT /api/playlist-songs/{id}**

Update full playlist.

**Headers:**

```
Authorization: Bearer <access_token>  
Content-Type: application/json
```

**Body:**

```
{  
  "playlist": clam,  
  "song": clam lo-fi beat  
}
```

---

**PATCH /api/playlist-songs/{id}**

Partial update.

**Headers:**

```
Authorization: Bearer <access_token>  
Content-Type: application/json
```

**Body:**

```
{  
  "playlist": clam,  
  "song": clam lo-fi beat  
}
```

---

**DELETE /api/playlist-songs/{id}**

Delete song.

**DELETE /api/playlist-songs/2/**

**Headers:**

```
Authorization: Bearer <access_token>
```

---

**GET /api/search-songs/?title=clam&genre=lofi**

Search public songs by title and/or genre.

**Response:**

```
[
```

```
{
  "id": 2,
  "title": "clam lo-fi beat",
  "genre": "lofi",
  "file": "/media/uploads/clam lo-fi.mp3",
  "public": true
}
```

---

#### **POST /api/songs/<song\_id>/like/**

Like a song.

##### **Headers:**

Authorization: Bearer <access\_token>

##### **Response:**

```
{ "message": "Song liked" }
```

---

#### **GET /api/liked-songs/**

Returns user's liked songs.

##### **Headers:**

Authorization: Bearer <access\_token>

##### **Response:**

```
{
  "count": 1,
  "next": null,
  "previous": null,
  "results": [
    {
      "id": 1,
      "song": 1,
      "liked_at": "2025-06-21T05:26:44.404839Z"
    }
  ]
}
```

---

### POST /api/songs/<song\_id>/unlike/

Unlike a song.

#### Headers:

```
Authorization: Bearer <access_token>
```

#### Response:

```
{ "message": "Song unliked" }
```

---

### GET /api/songs/<song\_id>/play/

Play and increment play count.

**Response:** Returns the audio stream.

---

### GET /api/playlist/<id>/

View playlist details.

#### Response:

```
{
  "id": 1,
  "name": "Workout Mix",
  "songs": [
    {
      "id": 2,
      "title": "Lo-fi Chill",
      "genre": "lofi"
    }
  ]
}
```

---

### GET /api/playback-history/

View your song listening history.

#### Headers:

```
Authorization: Bearer <access_token>
```

#### Response:

```
[
```

---

```
{
  "song": "Lo-fi Chill",
  "played_at": "2025-05-20T12:00:00Z"
}
```

---

## AI Music Generator API

**POST /api/ai/generate/**

Generate music from a text prompt.

**Headers:**

```
Authorization: Bearer <access_token>
Content-Type: application/x-www-form-urlencoded
```

**Body:**

```
{
  "prompt": " calm ambient piano ",
}
```

**Response:**

```
{
  "id": 5,
  "prompt": "calm ambient piano",
  "file_url": "/media/musicgen/calm_ambient_piano_24ab88e7.wav",
  "download_url": "/api/ai/generated-songs/5/download/",
  "created_at": "2025-05-20T11:00:00Z"
}
```

---

**GET /api/ai/generated-songs/**

List your AI-generated songs.

**Headers:**

```
Authorization: Bearer <access_token>
```

**Response:**

```
[
  {
    "id": 5,
    "prompt": "calm ambient piano",
    "file_url": "/media/musicgen/calm_ambient_piano_24ab88e7.wav",
    "download_url": "/api/ai/generated-songs/5/download/",
  }
]
```

```
    "created_at": "2025-05-20T11:00:00Z"
  }
]
```

---

### **PUT /api/ai/generated-songs/{id}/**

Update full generated song.

#### **Headers:**

Authorization: Bearer <access\_token>

#### **Body (form-data):**

```
{
  "prompt": " a calming lo-fi beat with soft piano and ambient textures",
  "file_url": " http://localhost:8000/media/musicgen/a_calming_lo-
fi_beat_with_soft_piano_and_ambient_textures_5360f641.wav",
}
```

#### **Response:**

```
[
  {
    "id": 4,
    "user": 3,
    "prompt": "a calming lo-fi beat with soft piano and ambient textures",
    "file_url": "http://localhost:8000/media/musicgen/a_calming_lo-
fi_beat_with_soft_piano_and_ambient_textures_5360f641.wav",
    "download_url": "http://127.0.0.1:8000/api/ai/generated-songs/4/download/",
    "created_at": "2025-06-21T19:35:40.669028Z"
  }
]
```

---

### **PATCH /api/ai/generated-songs/{id}/**

Partial update.

#### **Headers:**

Authorization: Bearer <access\_token>

**Body (form-data):**

```
{
  "prompt": "Generate an upbeat pop track",
}
```

**Response:**

```
[
  {
    "id": 4,
    "user": 3,
    "prompt": "Generate an upbeat pop track",
    "file_url": "http://localhost:8000/media/musicgen/a_calming_lo-fi_beat_with_soft_piano_and_ambient_textures_5360f641.wav",
    "download_url": "http://127.0.0.1:8000/api/ai/generated-songs/4/download/",
    "created_at": "2025-06-21T19:35:40.669028Z"
  }
]
```

---

**DELETE /api/ai/generated-songs/{id}/**  
Delete song.

**DELETE /api/ai/generated-songs/{id}/**

**Headers:**

```
Authorization: Bearer <access_token>
```

---

**GET /api/ai/generated-songs/<id>/download/**  
Download a generated .wav file.

**Headers:**

```
Authorization: Bearer <access_token>
```

**Response:** Returns the file as a downloadable attachment.