

# Blog-to-Podcast API Reference

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## Base URL

```
http://localhost:8000
```

## Authentication

Currently, no authentication is required for local development. For production, implement token-based authentication.

## Endpoints

### 1. Create Conversion Task

**Endpoint:** `POST /convert/`

**Description:** Initiates a new blog-to-podcast conversion task.

**Request Body:**

```
{
  "url": "https://example.com/blog-post"
}
```

**Response:** `201 Created`

```
{
  "task_id": "550e8400-e29b-41d4-a716-446655440000",
  "status": "PENDING",
  "url": "https://example.com/blog-post",
  "created_at": "2025-12-01T01:00:00Z"
}
```

**Error Responses:** - `400 Bad Request`: Invalid URL format - `500 Internal Server Error`: Server error

**Example:**

```
curl -X POST http://localhost:8000/convert/ \
-H "Content-Type: application/json" \
-d '{"url": "https://example.com/blog-post"}'
```

## 2. Get Task Status

**Endpoint:** GET /status/{task\_id}/

**Description:** Retrieves the current status and progress of a conversion task.

**Path Parameters:** - `task_id` (UUID): The unique identifier of the task

**Response:** 200 OK

```
{
  "task_id": "550e8400-e29b-41d4-a716-446655440000",
  "status": "PROCESSING",
  "progress": 65,
  "current_step": "Generating multi-speaker audio...",
  "url": "https://example.com/blog-post",
  "audio_file": null,
  "video_file": null,
  "error_message": null,
  "created_at": "2025-12-01T01:00:00Z"
}
```

**Status Values:** - `PENDING`: Task queued, not started - `PROCESSING`: Currently being processed - `COMPLETED`: Successfully completed - `FAILED`: Processing failed

**Completed Task Response:**

```
{
  "task_id": "550e8400-e29b-41d4-a716-446655440000",
  "status": "COMPLETED",
  "progress": 100,
  "current_step": "Completed",
  "url": "https://example.com/blog-post",
  "audio_file": "/media/podcast_550e8400-e29b-41d4-a716-446655440000.mp3",
  "video_file": "/media/podcast_550e8400-e29b-41d4-a716-446655440000.mp4",
  "script": "Host A: Welcome to today's podcast...",
  "error_message": null,
  "created_at": "2025-12-01T01:00:00Z"
}
```

**Error Responses:** - `404 Not Found`: Task ID doesn't exist

**Example:**

```
curl http://localhost:8000/status/550e8400-e29b-41d4-a716-446655440000/
```

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### 3. Get Task Logs

**Endpoint:** `GET /logs/{task_id}/`

**Description:** Retrieves detailed logs for a conversion task.

**Path Parameters:** - `task_id` (UUID): The unique identifier of the task

**Response:** `200 OK`

```
{
  "task_id": "550e8400-e29b-41d4-a716-446655440000",
  "logs": "[10:30:15] Extracting content from blog...\\n[10:30:45] Generating podcast script with
}
```

**Example:**

```
curl http://localhost:8000/logs/550e8400-e29b-41d4-a716-446655440000/
```

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### 4. Download Media Files

**Endpoint:** `GET /media/{filename}`

**Description:** Downloads generated audio or video files.

**Path Parameters:** - `filename`: The media file name (from task response)

**Response:** `200 OK` (Binary file)

**Example:**

```
# Download audio
curl -O http://localhost:8000/media/podcast_550e8400.mp3
```

```
# Download video
curl -O http://localhost:8000/media/podcast_550e8400.mp4
```

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## Data Models

### ConversionTask

```
{
  "id": UUID,
  "url": String,
  "status": Enum[ "PENDING", "PROCESSING", "COMPLETED", "FAILED" ],
  "progress": Integer (0-100),
  "current_step": String,
  "script": String (nullable),
  "audio_file": String (nullable),
  "video_file": String (nullable),
  "error_message": String (nullable),
  "logs": String,
  "timing_map": Array (nullable),
  "created_at": DateTime
}
```

### Timing Map Entry

```
{
  "start": Float,      # Start time in seconds
  "end": Float,        # End time in seconds
  "text": String,      # Dialogue text
  "speaker": String    # "Host A" or "Host B"
}
```

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## Error Handling

All errors follow this format:

```
{
  "error": "Error message description",
  "status_code": 400
```

```
}
```

**Common Error Codes:** - [400](#): Bad Request (invalid input) - [404](#): Not Found (resource doesn't exist) - [500](#): Internal Server Error (processing failure)

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## Rate Limiting

**Current Limits:** - Max concurrent tasks: 5 - No per-user rate limiting (local development)

**Production Recommendations:** - Implement per-IP rate limiting - Add authentication tokens - Set max requests per hour/day

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## Webhooks (Future)

Planned feature for production:

```
{
  "webhook_url": "https://your-app.com/webhook",
  "events": [ "task.completed", "task.failed" ]
}
```

## Code Examples

### Python

```
import requests

# Create task
response = requests.post(
    'http://localhost:8000/convert/',
    json={'url': 'https://example.com/blog'}
)
task = response.json()
task_id = task['task_id']

# Poll status
import time
```

```

while True:
    status = requests.get(f'http://localhost:8000/status/{task_id}/').json()
    if status['status'] in ['COMPLETED', 'FAILED']:
        break
    print(f"Progress: {status['progress']}%")
    time.sleep(5)

# Download files
if status['status'] == 'COMPLETED':
    audio = requests.get(f"http://localhost:8000{status['audio_file']}")
    with open('podcast.mp3', 'wb') as f:
        f.write(audio.content)

```

## JavaScript

```

// Create task
const response = await fetch('http://localhost:8000/convert/', {
  method: 'POST',
  headers: {'Content-Type': 'application/json'},
  body: JSON.stringify({url: 'https://example.com/blog'})
});
const task = await response.json();

// Poll status
const checkStatus = async () => {
  const status = await fetch(`http://localhost:8000/status/${task.task_id}`);
  const data = await status.json();

  if (data.status === 'COMPLETED') {
    console.log('Download:', data.audio_file);
  } else if (data.status === 'PROCESSING') {
    setTimeout(checkStatus, 5000);
  }
};
checkStatus();

```

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