

CUSTOMER SUCCESS STORY

# Building an AI Audio Creation Platform for Faster Music and Voiceover Production

Codimite shaped Melos into a secure AI-powered platform where users can generate music, create human-like voiceovers, refine ideas, and manage audio outputs in one cloud-based product flow.

## Melos

From scattered audio tools to one creative production workspace

Music generation • Voiceover sessions • Cloud audio storage

### The Challenge

Audio production was slow, fragmented, and dependent on multiple tools for ideation, generation, recording, review, and storage.

### The Solution

A secure AI platform with separate music and voiceover workflows, Google sign-in, session history, refinement, and cloud-hosted outputs.

### The Outcome

Users can move from idea to playable audio faster, iterate creatively, and manage reusable music and voiceover assets in one place.

AI music generation

Human-like voiceover

Creative iteration

Cloud audio delivery

## What Codimite Built

- Secure Google authentication and JWT-based access control
- Music session workflow from text idea to AI-generated playable audio
- Voiceover sessions with dialogue blocks, voice selection, tone tags, profiles, and director notes
- Cloud storage and persistence for session history and generated audio assets

THE CHALLENGE / CUSTOMER SUCCESS STORY

# Original audio creation was too fragmented for fast digital content production

Teams needed a faster and more reliable way to create music and voiceovers without moving across disconnected tools or depending on slow manual production cycles.

<p><b>Slow audio production</b></p> <p>Finding music, recording voiceovers, and preparing final assets required too much manual effort.</p>	<p><b>Too many tools</b></p> <p>Ideation, script writing, generation, review, download, and storage often happened across separate products.</p>	<p><b>Robotic voice quality</b></p> <p>Existing AI voiceover tools often produced voices that sounded less natural than expected.</p>
<p><b>Limited iteration</b></p> <p>Creative teams needed a faster way to refine prompts, scripts, voices, tone, and production settings.</p>	<p><b>Scattered outputs</b></p> <p>Generated audio files and previous sessions were difficult to reuse when stored outside one workspace.</p>	<p><b>High campaign effort</b></p> <p>Short-form campaigns, demos, explainers, and branded media needed quicker audio experimentation.</p>

THE SOLUTION / CUSTOMER SUCCESS STORY

# A unified AI workspace for music and voiceover creation

Melos brings secure access, music generation, voiceover production, session history, and cloud-hosted audio delivery into one platform.

<p><b>01</b></p> <p><b>Sign in</b></p>	<p><b>02</b></p> <p><b>Create</b></p>	<p><b>03</b></p> <p><b>Refine</b></p>	<p><b>04</b></p> <p><b>Generate</b></p>	<p><b>05</b></p> <p><b>Manage</b></p>
<p>Google authentication</p>	<p>Music or voiceover session</p>	<p>Prompt, script, tone, and settings</p>	<p>AI audio output</p>	<p>Preview, download, and reuse</p>

<p><b>Music workflow</b></p> <ul style="list-style-type: none"> <li>• Enter a text idea</li> <li>• Generate a structured music prompt or script with AI</li> <li>• Refine with feedback</li> <li>• Produce, preview, and download the audio output</li> </ul>	<p><b>Voiceover workflow</b></p> <ul style="list-style-type: none"> <li>• Create a voiceover session</li> <li>• Add dialogue blocks and assign AI voices</li> <li>• Insert expressive tone tags</li> <li>• Apply audio profile and director notes before generation</li> </ul>
---	--

TECHNICAL ARCHITECTURE / CUSTOMER SUCCESS STORY

# A secure cloud-based audio generation architecture

The platform combines AI script generation, advanced music and voice models, cloud persistence, secure access control, and hosted audio delivery.

<b>Creative input</b>	<b>AI generation layer</b>	<b>Cloud delivery</b>
Text ideas, prompts, dialogue blocks, tone tags, production settings	Gemini script generation, Lyria music models, Gemini TTS voice generation	Datastore sessions, Cloud Storage audio assets, preview and download flow
Google sign-in + JWT access control	Encrypted personal user data	Cloud-hosted reusable audio outputs
<b>Gemini</b> Script and prompt generation	<b>Lyria 3 Pro / Clip</b> Music generation	<b>Gemini 3.1 Flash TTS</b> AI voice generation

<b>Secure authentication</b> Google sign-in and JWT-based access control protect platform access.	<b>Encrypted user data</b> Personal user data is stored securely with encryption-focused handling.	<b>Session persistence</b> Google Cloud Datastore keeps music and voiceover session history available over time.
<b>Audio asset storage</b> Google Cloud Storage stores generated music and voiceover files for delivery and reuse.	<b>Hosted delivery</b> Users can preview, download, and manage generated outputs from the platform.	<b>Unified product flow</b> Creation, refinement, generation, storage, and review happen in one workspace.

RESULTS / CUSTOMER SUCCESS STORY

# A faster, scalable workflow for AI-powered audio production

<b>Faster creation</b>	<b>Better iteration</b>	<b>Centralized assets</b>
Users can move from idea to playable music or voiceover audio in one guided product flow.	Creative teams can refine scripts, voices, tone, profiles, and director notes before final output.	Music, voiceover generation, session history, and generated files are managed in one cloud platform.