

Web Dev Bootcamp Project

soundWEave

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Team Members

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Agenda

1 Project Idea

2 Tech Stack

3 Features

4 Features

Project Idea

Sound WEave

- Real-time platform to collaborate on audio tracks from anywhere.
- Users can join virtual jam rooms, sync audio and layer tracks.

Tech Stack

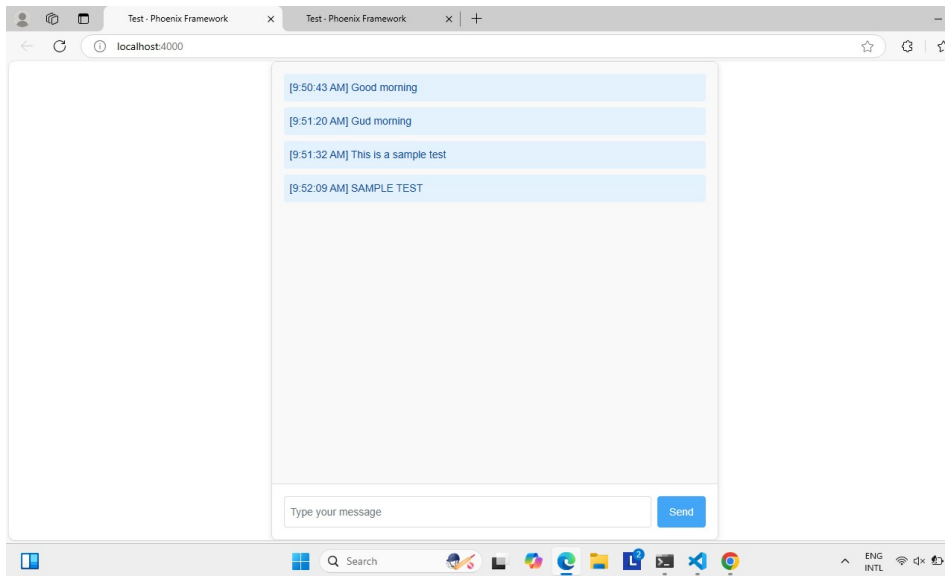
- Elixir
- Phoenix
- Membrane
- PostgreSQL

Features

- Real-Time Audio Collaboration
- Low-Latency Streaming
- Flow: Capturing Audio - Mixing tracks - Streaming - PlayBack

```
iex(1)> Jam.SessionManager.create_session("room:session1")
true
iex(2)> Jam.SessionManager.add_participant("room:session1", "user1")
:ok
iex(3)> Jam.SessionManager.get_session("room:session1")
{:ok, %{participants: ["user1"]}}
iex(4)> Jam.SessionManager.add_participant("room:session1", "user2")
:ok
iex(5)> Jam.SessionManager.get_session("room:session1")
{:ok, %{participants: ["user1", "user2"]}}
iex(6)> Jam.SessionManager.create_session("room:session2")
true
iex(7)> Jam.SessionManager.add_participant("room:session2", "user3")
:ok
iex(8)> Jam.SessionManager.get_session("room:session2")
{:ok, %{participants: ["user3"]}}
```

ETS



chat

What we completed?

- Membrane - play mp3 files
- Frontend

What are we left with?

- Implementing track upload and mixing of tracks with UI
- Database configuration

Thank You

We're open to any questions you may have!