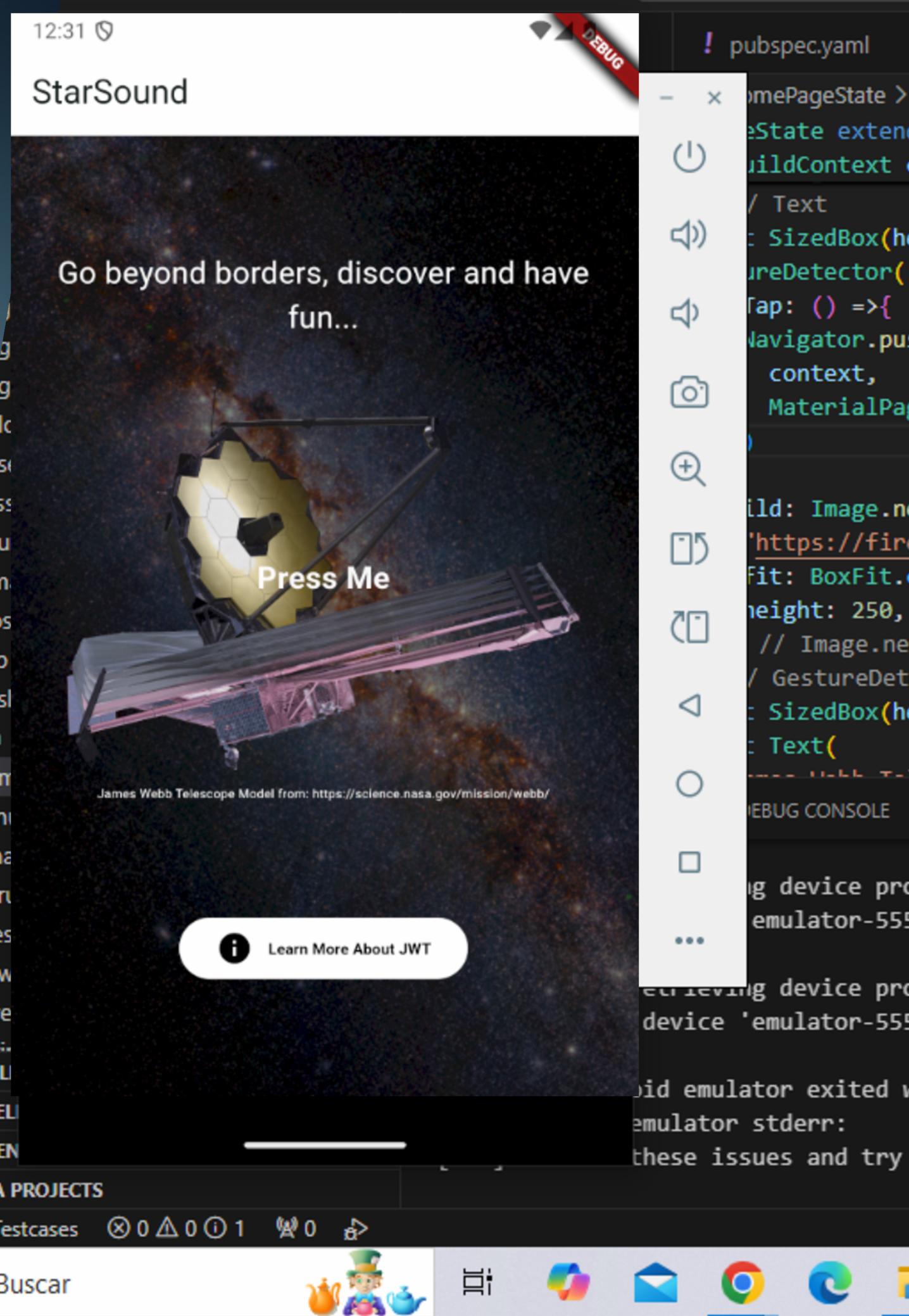


StarSound

CHALLENGE:
SYMPHONY OF THE STARS

Team: InCtrl



what is StarSound?

StarSound is an immersive app developed using Flutter, combining James Webb Space Telescope (JWST) images and music.

It connects users with space exploration through a visual and auditory experience.



App operation

- Python processes the JWST images by identifying the brightest zones. These bright spots are mapped into a JSON file, containing their coordinates.
- The app analyzes the JSON data to generate musical notes based on the position and brightness of the points.
- Flutter powers the front-end, where users can interact with the images, place buttons on the bright spots, and create piano-based melodies.



Main Tools implemented in the project

01

Flutter

The App was built on the Dart programming language.

02

Python

Bright spot detection and JSON genereation.

03

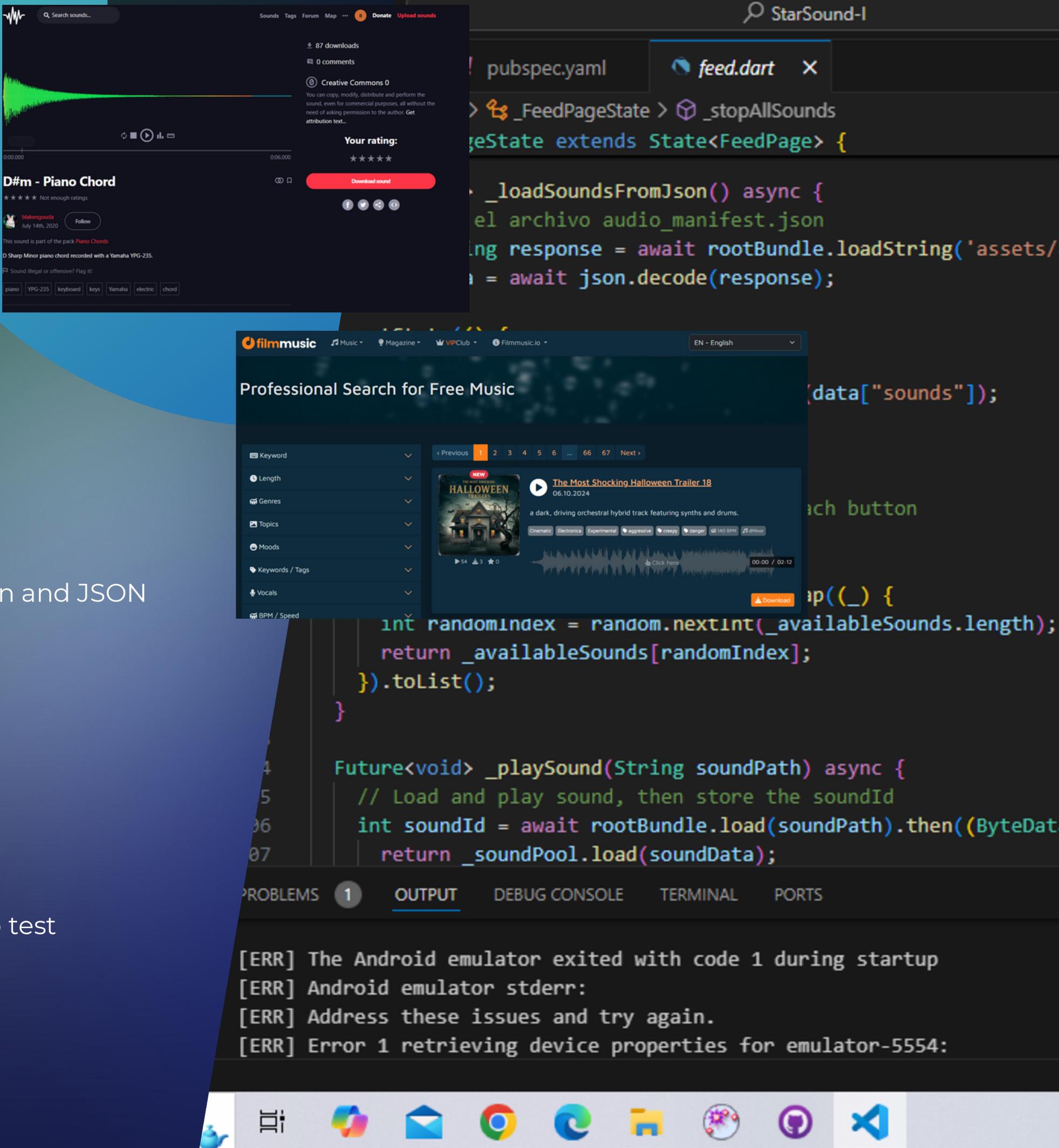
AudioAssets

Freesound site:
blakengouda collection
FilmMusic public search

04

AndroidStudio

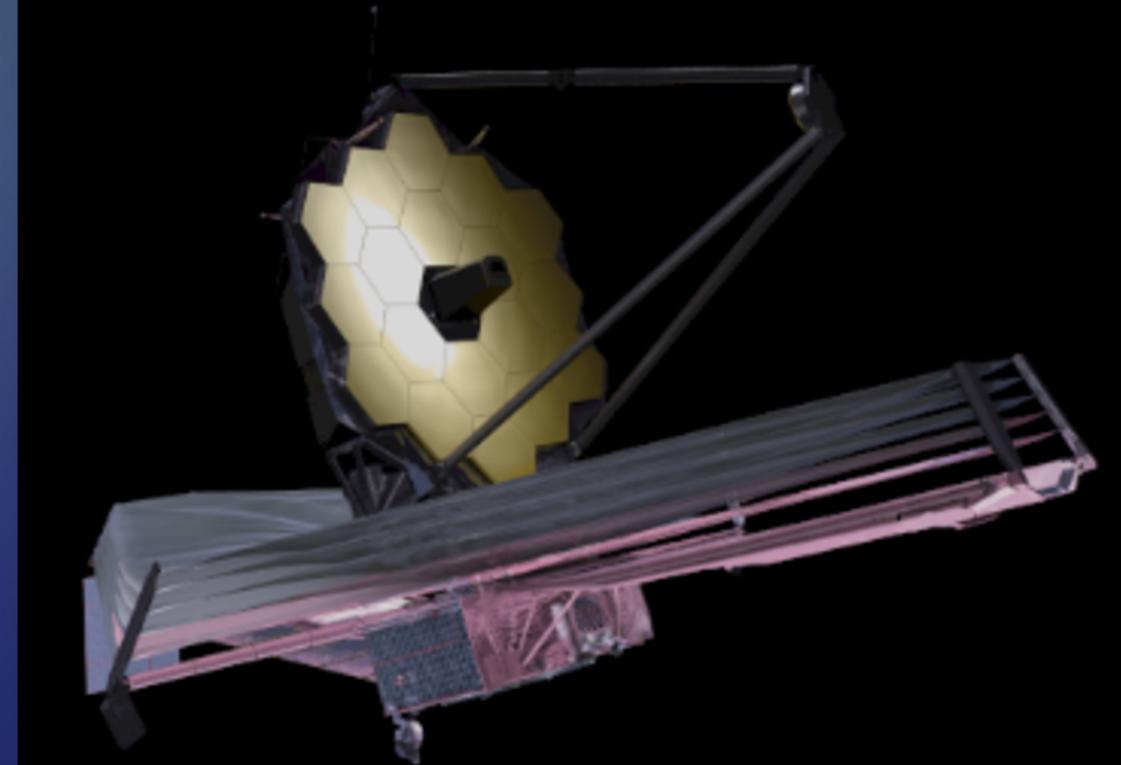
Android emulator to test the App



How StarSound Solves the NASA Challenge?

StarSound responds to NASA's Space Apps Challenge by harmonizing the visual beauty of the James Webb Space Telescope (JWST) images with music. The project transforms static images into interactive, auditory experiences, allowing users to engage with space exploration in a unique and creative way.

Go beyond borders, discover and have fun...



James Webb Telescope Model from: <https://science.nasa.gov/mission/webb/>

Current project state

We have successfully developed the core functionality of StarSound.

This initial version showcases the hands-on experience made available through the app.

In future iterations, we would like to expand StarSound by adding new features:

- Database Integration: Storage of user-created compositions and their interaction history.
- Expanded Space Data: Incorporating data from other space missions or telescopes.

