

Technical Requirements – Santa Clap Piano

Challenge is accessible on Memberspot: <https://pl-coding.mymemberspot.io/library/jx3b7Qik9ip5qpNI8IF2/CAXRTS5yWwDcZ19gwHz0/TVH1O5wdky9VJc4DOv71/details>

Scenario

A festive mini-app where users can tap piano keys that play short cheerful sounds — bells, notes, or jingles.

Figma Mockups

<https://www.figma.com/design/ILcf8BTbExJf1drvKksZ2O/Winter-Magic-Series?node-id=25-138>

Font - [Montserrat](#)

Feature Goal

Implement an interactive festive piano where each key changes its color when tapped and plays a short sound using **SoundPool**.

 **SoundPool** is recommended because it provides low-latency playback, allows multiple sounds to play simultaneously, and is optimized for short audio effects, making it ideal for instant feedback

Requirements

Title

- Positioned above the keyboard.
- Text: “*Santa’s Piano*”.
- Centered horizontally.

Background

- Static background with snowflakes and festive elements.
- Non-interactive and does not animate.

Piano Keys

- Number of keys: 7
- Layout: horizontal row (Row) centered on the screen.
- Appearance: each key is provided separately in Figma.
- Interaction:
 - On tap, the key changes color to a light blue tint.
 - Color animation duration: 300 ms.
 - A short festive sound plays simultaneously.
 - After animation, the key returns to its default color.

Sounds

- Each key has a dedicated short sound file (.wav or .mp3).
- Duration: 0.3–0.5 seconds.
- Each sound should match a festive or winter theme.
- Multiple sounds can play simultaneously — tapping a new key **should not stop** any currently playing sounds. Each note or sound effect must play independently without interruption.
- You can find all recommended sound files attached in the Memberspot resources section for this challenge.



🤔 What's Allowed?

- Standard Android / Jetpack libraries.
- Use Material 3 components or simple custom UI elements.
- No 3rd party libraries are allowed or would be required to complete this challenge

⚠️ What's not important

- Responsiveness across every device size or orientation is not mandatory.
- Visual effects such as shadows or depth.
- Light/Dark mode support.

Useful Links for This Challenge

- [SoundPool](#)
- [Full Guide to Jetpack Compose Animations](#)
- [Quick Guide to Animations in Compose](#)

Submission & Rewards

- Successfully submitting this challenge via the `/submit-challenge` command on Discord grants you **100 XP**.
- Your submission must include:
 - a. A **Gist link** with your implementation.
 - b. A **screen recording** (max 20 seconds) showing:
 - Initial screen in landscape orientation.
 - Pressing several keys.
 - Smooth color change animation.
 - Corresponding sound playback.