



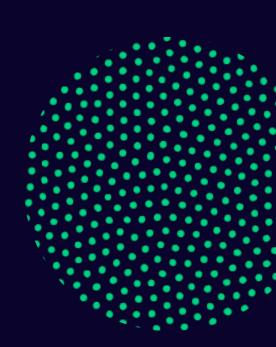
Building a Name Pronunciation Database

With Power Apps and Power Automate



Application Programmer

January 18, 2022





Lindsay Shelton, Application Programmer From Kansas City Metro Area, US

Microsoft Certified Trainer

Spent 10 years as a teacher before switching careers

Works with everything from Power Platform adoption to SPFx web parts to Azure APIM



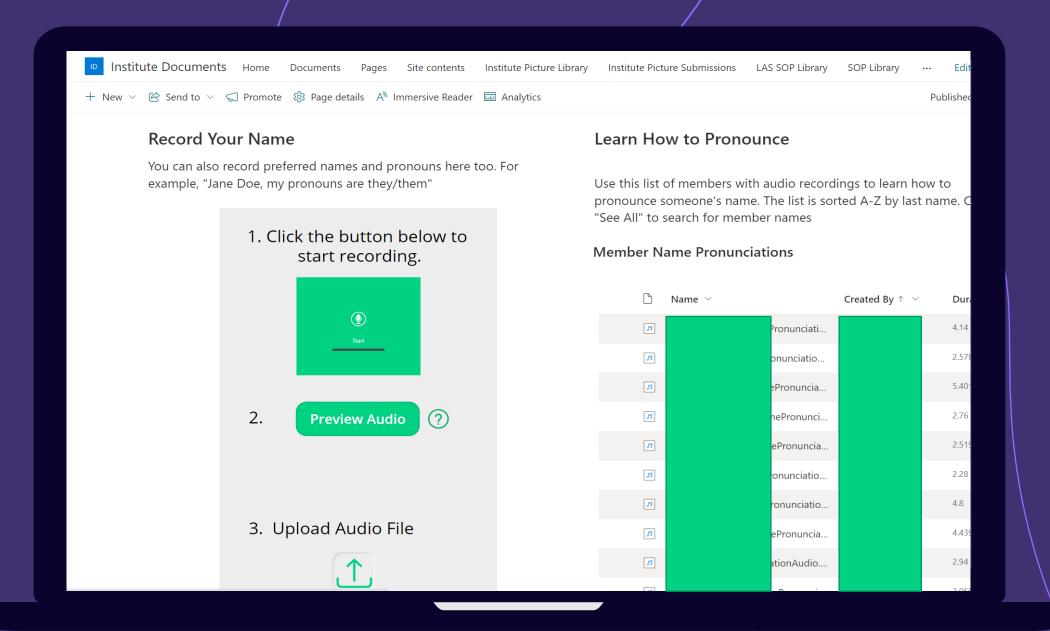




"Our names are our identities...closely linked to our heritage. Mispronouncing a name can be experienced as a kind of microaggression, as the person may feel put down, invisible, or unworthy."

- Marie-Therese Claes, Ph.D

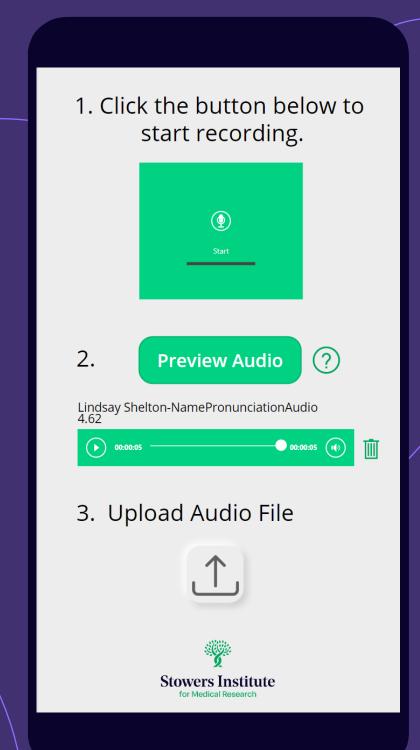
Being a medical research institute, we have employees from all over the globe. We celebrate diversity, so what we were doing to support all of the wonderfully unique users we have?



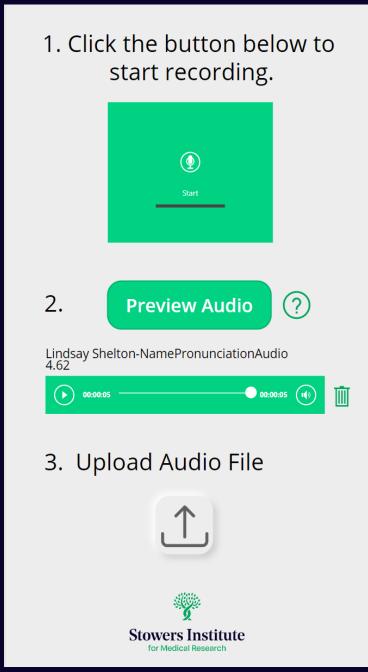
So, we created a place where our users could record and store name pronunciations!

What is this solution actually made up of?

Power App with a Power Automate flow sitting on a SharePoint page and a document library



How does it work on the front-end?



- 1. User clicks to start recording, records name, and clicks the same button to stop the recording.
- 2. User clicks Preview Audio button, which populates the Play Audio control, which they can use to play and then delete the audio if they don't like it.
- 3. Repeat steps 1 and 2 as many times as desired.
- 4. When the user is happy with the audio, they click the Upload Audio File button.
- 5. The file is uploaded via a Power Automate flow to a SharePoint document library, which is surfaced on the same page that hosts this Power App.

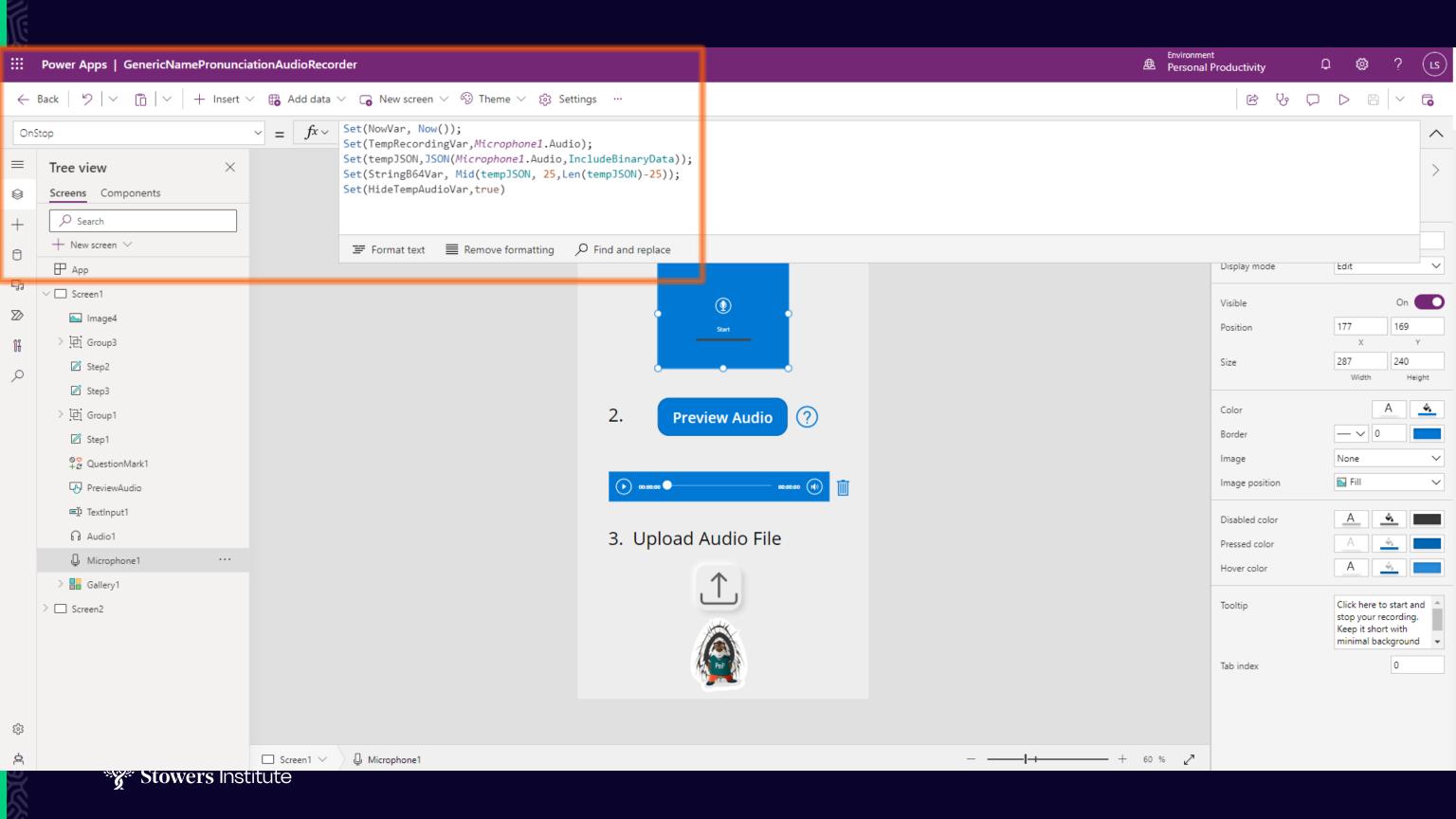
The Power App

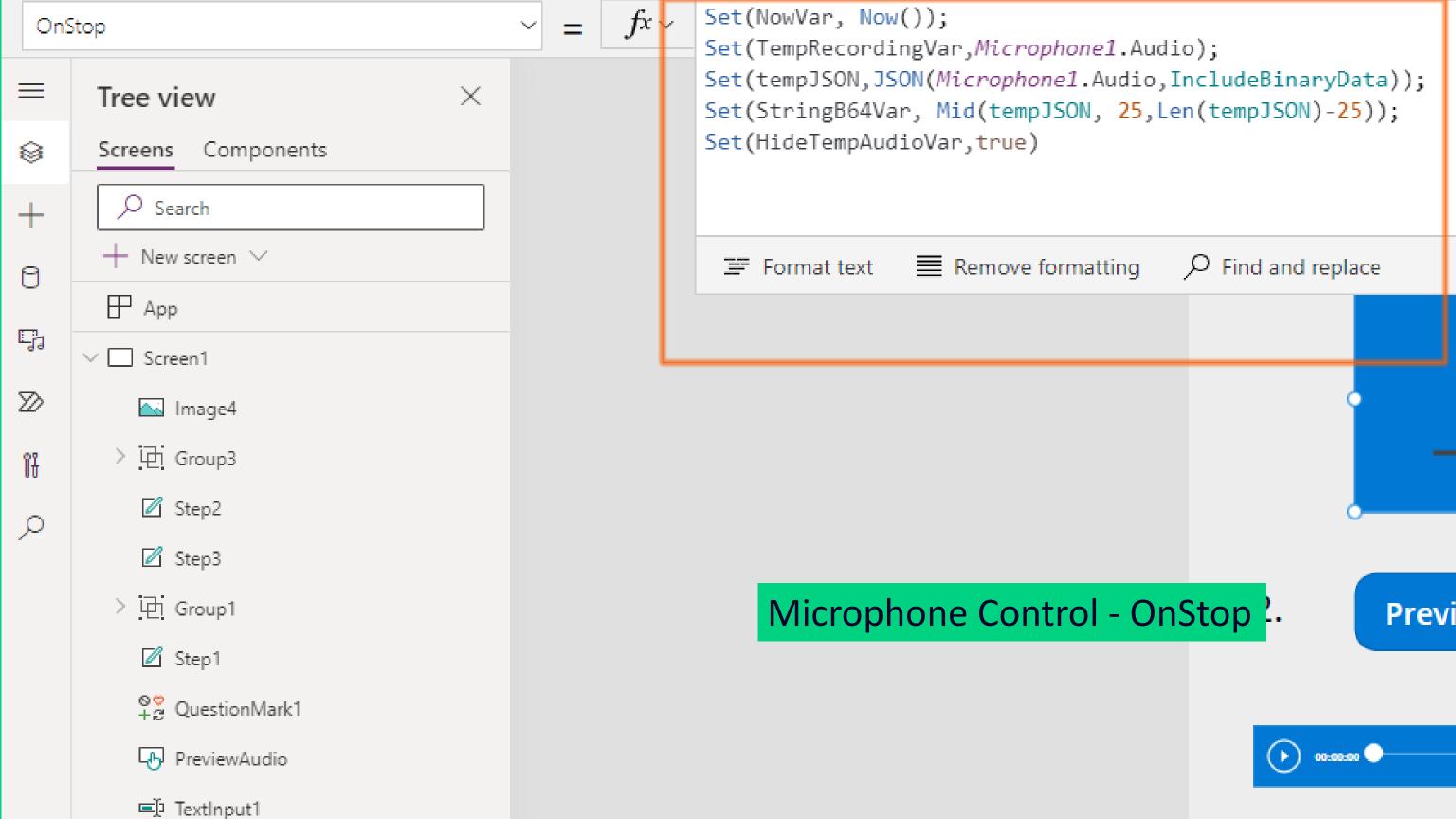
Uses some basic media controls –

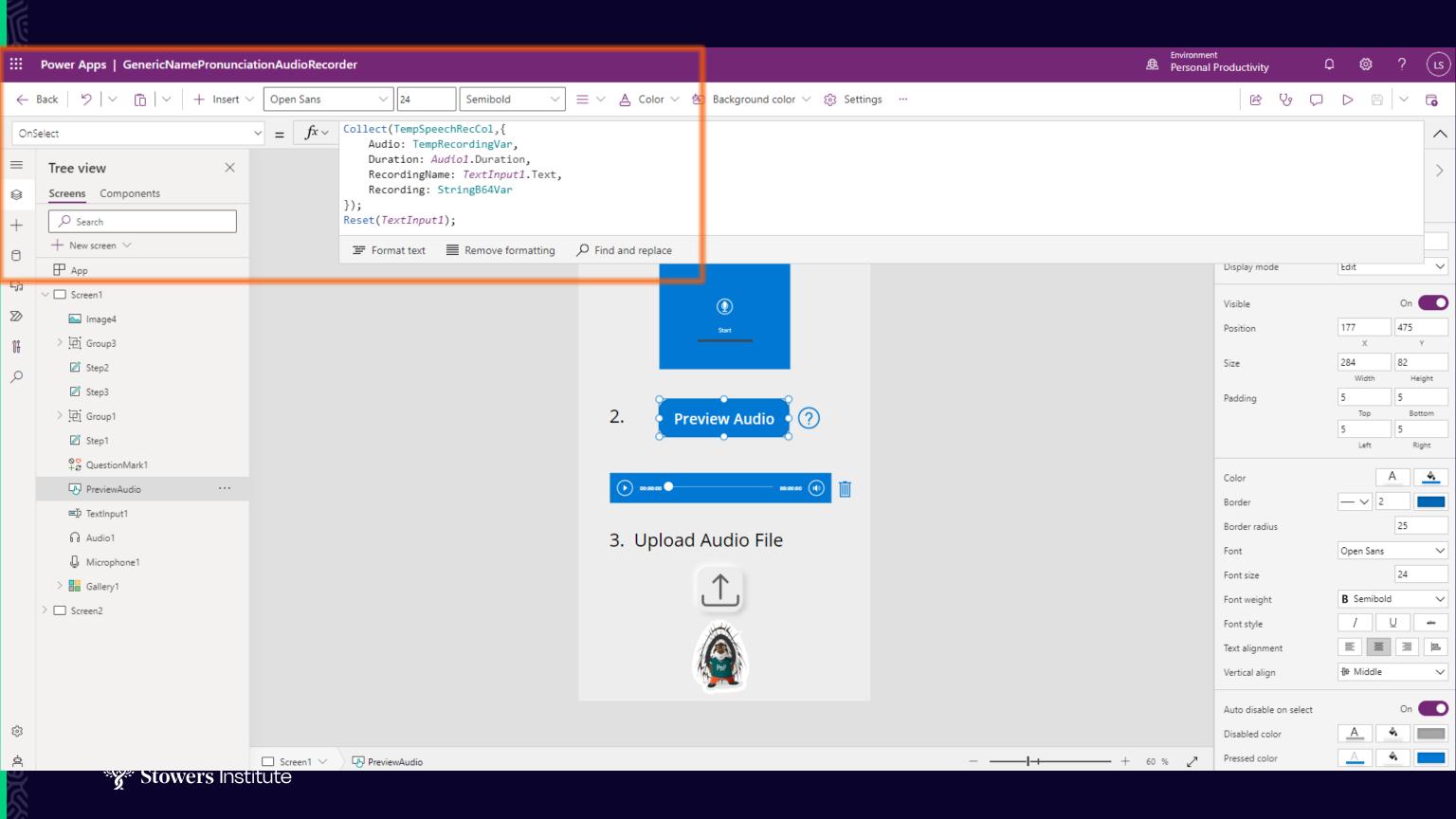
- the microphone
- the audio control to play the recording back

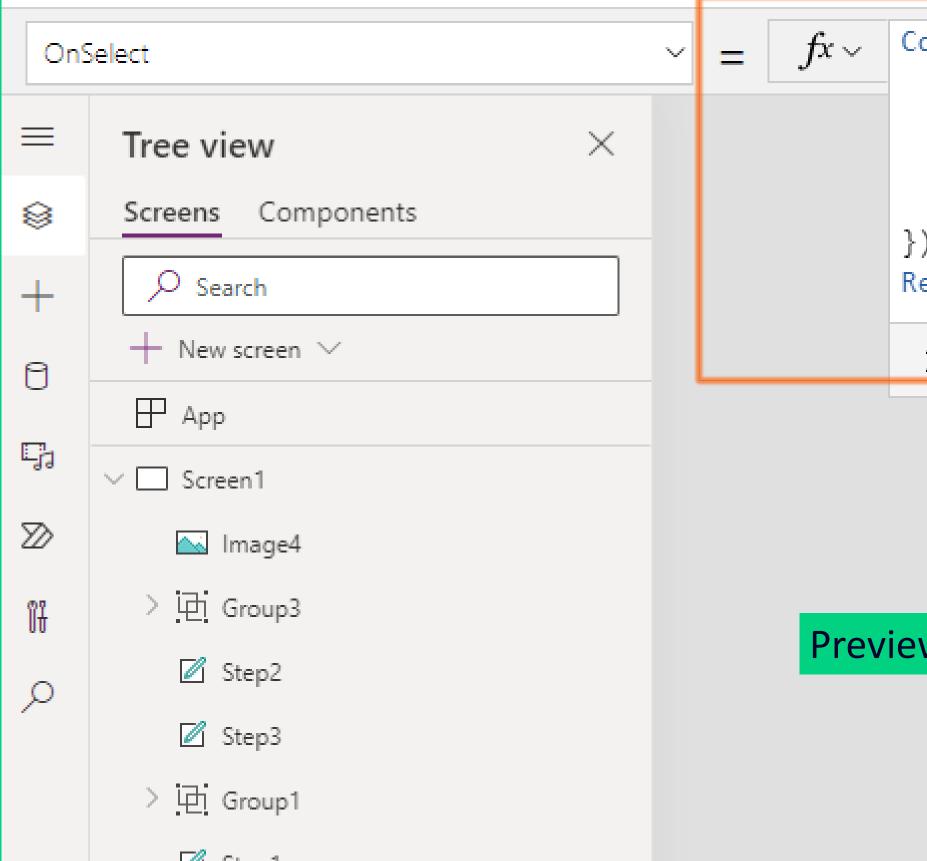
Plus –

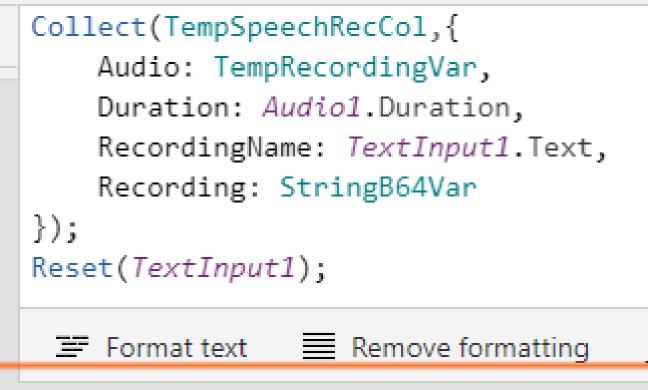
- a gallery that stores the audio recordings, displaying the most recent recording
- a button that populates the gallery with the latest recording done
- an upload button that is hooked up to a Power Automate workflow (it's neumorphic to be extra)









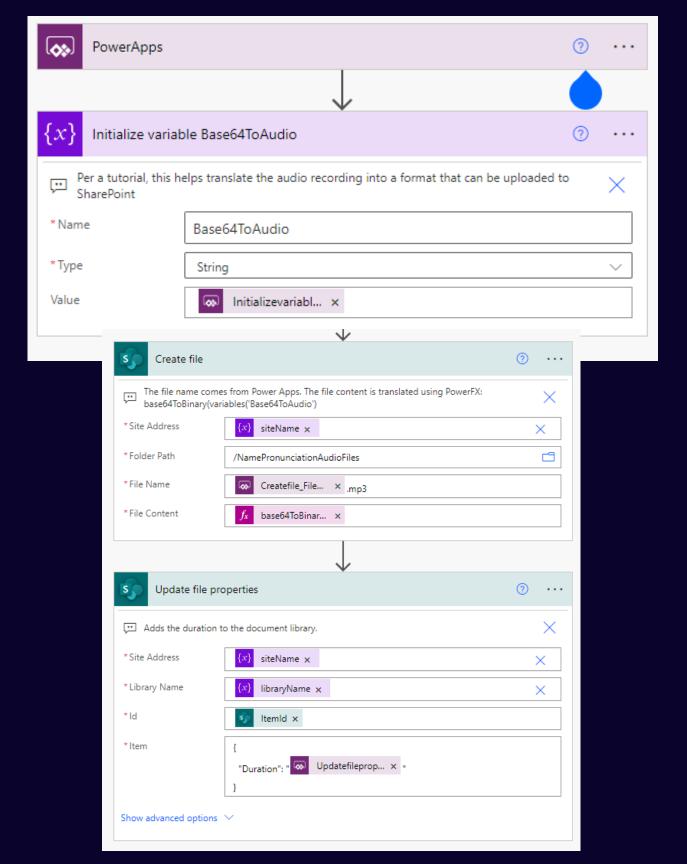


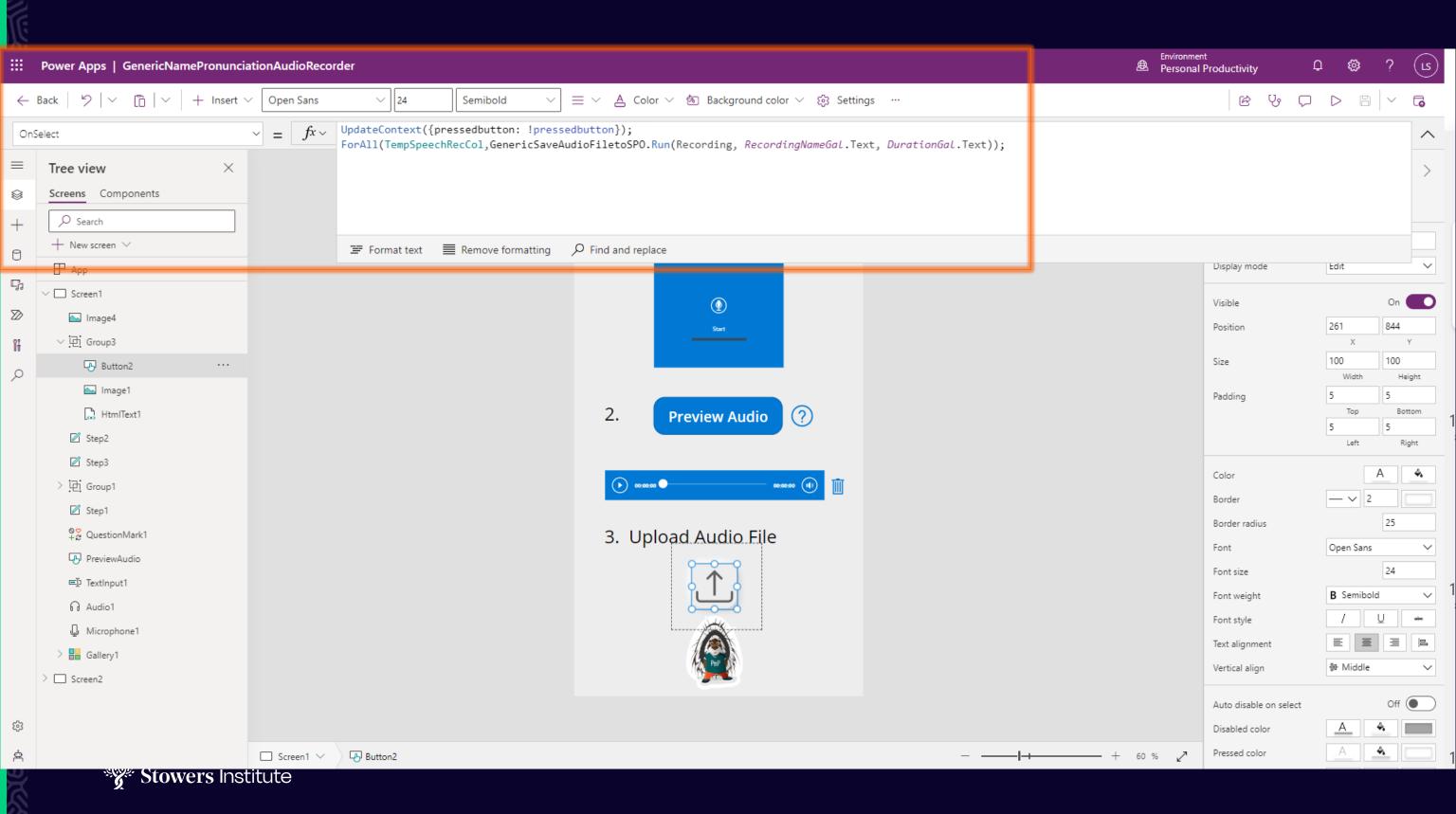
PreviewAudio button – OnSelect

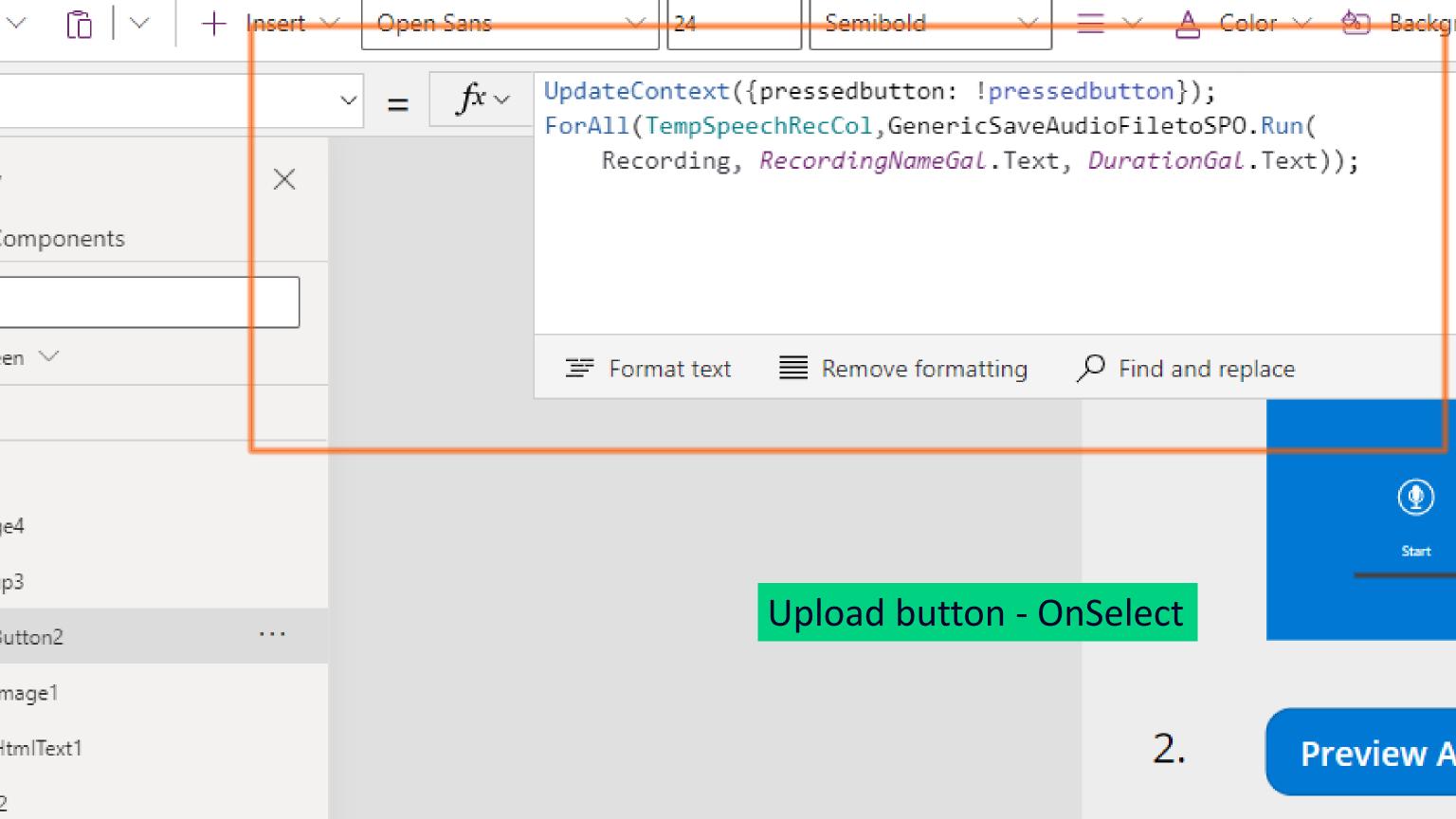
Power Automate

- Prior to making this, make a SharePoint doc library and add a number column called "Duration"
- Trigger is Power Apps instant flow
- Convert that data from a string to an audio file in a variable using Power Apps data
- Create the file in SharePoint file name is the recording name.mp3, and the file content is an expression – Base64toBinary(Base64ToAudio variable)
 - Note that this is different than Daniel's tutorial this is what I got working
- Update file properties to add in the Duration
- So, getting three things from Power Apps the file itself, the file name, and the duration









Thank You!

This whole project wouldn't be possible without the amazing Youtube guidance from Daniel Christian – Save Audio Recording to SharePoint Online https://www.youtube.com/@DanielChristian19 !

For help making it at least a little bit pretty - Kristine Kolodziejski – Neumorphic Buttons

https://www.kristinekolodziejski.com/blog/building-beautiful-buttons-in-canvas-apps-part-1-neumorphic-buttons

