On Device:

On Server:

Process Outline for Meeting Sense

1 User Starts Meeting Sense

- User turns on "create" mode which enables the microphone & starts to create a .wav file to be processed once user is finished.
- On-Device Preprocessing:
  - High Pass filter for background noise
  - If user has not already used the app, have them repeat a few pre-gen'd sentences that we can feed to RNN.
- Send .wav of recording(s) to server for processing

2 Server Processing via RNN

- Server receives data from mobile device.
- If the server has never heard a speaker before, it trains a RNN w/ the sent training data
- The recorded .wav file is processed by the trained RNN & predictive results are returned.
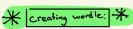- Trained RNN's are saved for future use. Hopefully the RNN will get better over time.

3 Post-Processing

- Remove unwanted words from output.
- Send data back to phone for visulization.

4 Visulizing Stage

- Data from server received & processed on device into a wordle image ✳
- Create report to capture statistics about the processing.
- On app home page, add item in a list of "previous meeting notes" that contains the wordle & the report.

✳ **Creating wordle:** ✳

1) place words, in decreasing frequency, at whatever point they want to be (say somewhere around the middle of the screen).
2) while a word intersects another previously placed word, move it one step along some spiral/other pattern.