

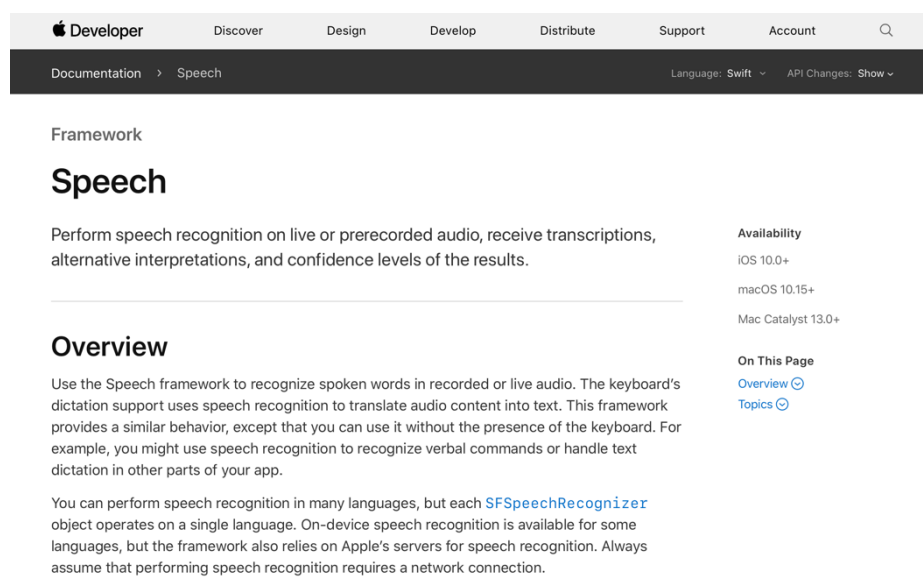
# HW 05 – Interesting API

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GitHub: <https://github.com/selinbilen/AudioToText>

YouTube: [https://www.youtube.com/watch?v=B9wNnJw\\_9gs](https://www.youtube.com/watch?v=B9wNnJw_9gs)

I made an app named Spext, it is combined of words "speech" and "text". The idea is simple, the app will convert the audio file to the text. I have an audio file of professor Madden's voice the button will basically load the audio file that I declared in the path\* and then will begin the analysis using the Speech framework. It will analyze the audio and then convert it into a text and will drop it in to a UITextField that I have in the application. As API, I used Speech Recognition API.



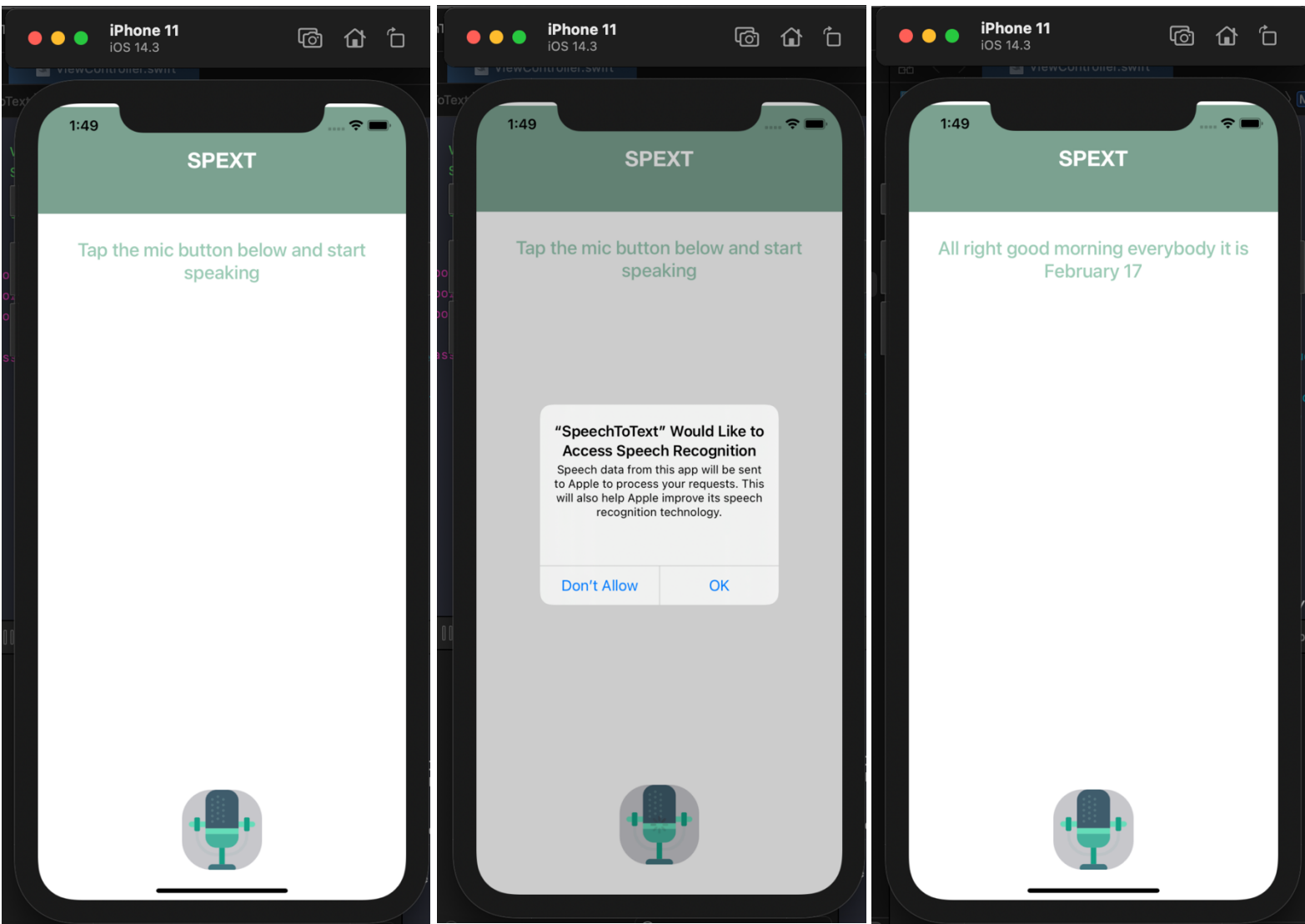
To be able to use Speech framework I needed to get permission so I added the Privacy Key to my Info.plist File.

## Important

You must include the `NSSpeechRecognitionUsageDescription` key in your app's Info.plist file. If this key is not present, your app will crash when it attempts to request authorization or use the APIs of the Speech framework.

For speech recognition it requires, a recognizer, request, and recognition task. Recognizer basically recognizes there is a speech in the audio, the req will pull the file (\*), recognitionTask will put those two together; it will run the file through and then the result will provide that transcription.

```
let recognizer = SFSpeechRecognizer()
let req = SFSpeechURLRecognitionRequest(url: path)
recognizer?.recognitionTask(with: req){ (result, error) in
    if let error = error{
        print("Error: \(error)")
    }else{
        self.TextView.text = result?.bestTranscription.formattedString
    }
}
```



```
commit 062d76bee7fef17bc21276d5d8244a2c7e7b0559 (HEAD -> master, origin/master, origin/HEAD)
Author: Selin Bilen <selineylulbilen@gmail.com>
Date: Sun Mar 21 14:11:15 2021 +0300

    report added

commit 5058f62ccc114395ec38c4534c05c5d59b6e2e41
Author: Selin Bilen <selineylulbilen@gmail.com>
Date: Sun Mar 21 14:10:32 2021 +0300

    recording

commit efd446f1fa6e3f1c236f60d078b425504dca39a1
Author: Selin Eylül Bilen <42783802+selinbilen@users.noreply.github.com>
Date: Sun Mar 21 14:00:26 2021 +0300

    Add files via upload

commit 90bbe17850ae4d5023e521f7af32e61e4252d272
Author: Selin Bilen <selineylulbilen@gmail.com>
Date: Sun Mar 21 13:58:56 2021 +0300

    zip file
```