

MOBILE PROGRAMMING – ICP11

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GithubLink -

<https://github.com/AishwaryaKotla/WebSpring2022/tree/main/MobilePart/ICP11>

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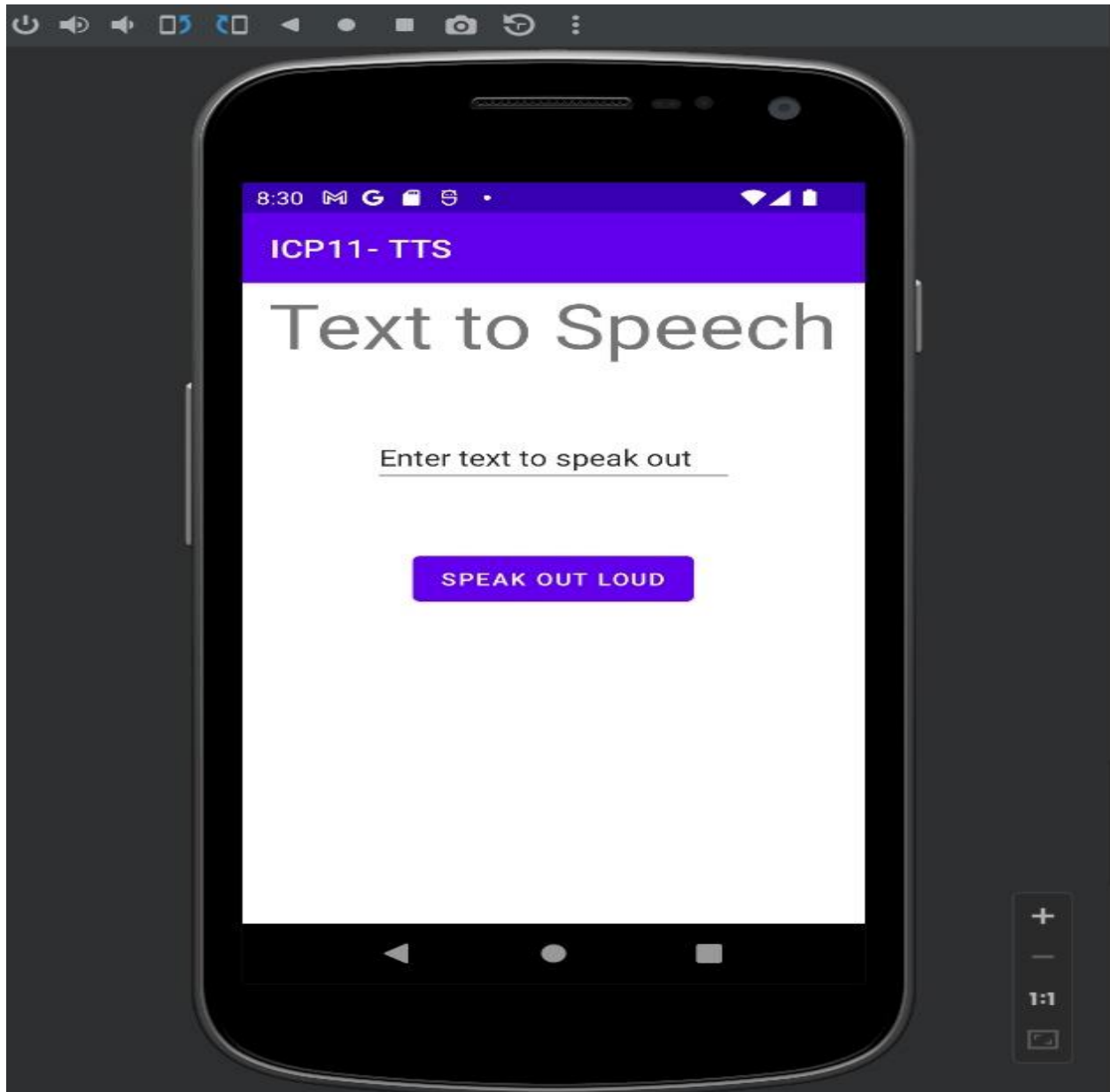
GithubLink –

<https://github.com/sunnypranay4748/WebSpring2022/tree/main/MobilePart/ICP11>

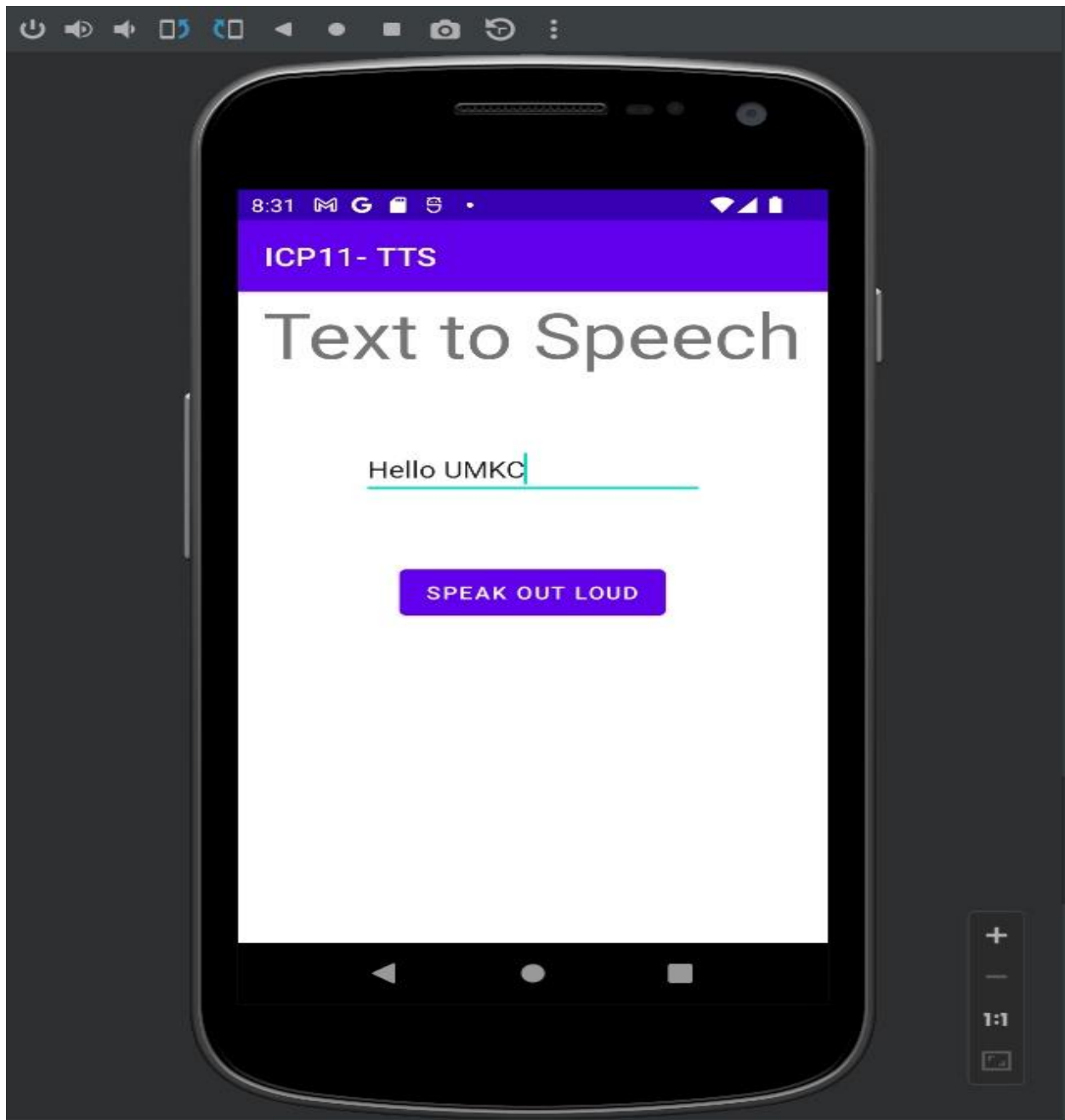
Goal: The main goal of this ICP is to convert the text into speech.
Which is useful for the people who are unable to read.

We've added an EditText field where we may enter in the text to convert to speech. After that, we added a SpeakOut Button underneath the textfield, which when clicked, turns the entered text to speech.

In simple terms, when the user clicks the speak out loud button, the text is spoken out loud through speaker.



The screenshot below shows an example of TTS (Text to Speech), in which the user typed Hello World and then pressed the "Speak out loud" button to hear the text.



- Here we have imported and used android TTS module for this action of text to speech conversion to be performed.
- We used QUEUE ADD, which adds text to the end of the playing queue in queue mode.

```
@Override
public void onInit(int status) {
    if(status==TextToSpeech.SUCCESS){
        int result =textToSpeech.setLanguage(Locale.ENGLISH);
        if(result==TextToSpeech.LANG_NOT_SUPPORTED || result == TextToSpeech.LANG_MISSING_DATA){
            Log.e( tag: "message", msg: "language not supported");
        }
        else{
            textToSpeech.speak(String.valueOf(editText.getText()),TextToSpeech.QUEUE_ADD, params: null);
        }
    }
    else{
        Log.e( tag: "message", msg: "IT's not supporting");
    }
}
```