

Ex. No.: 10

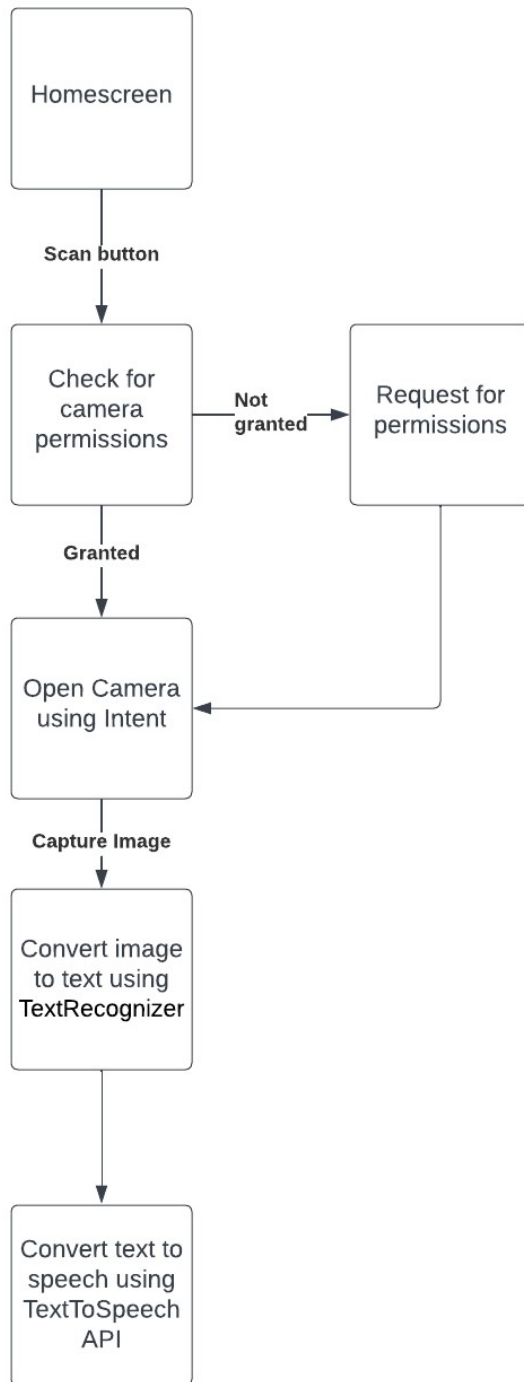
Date: 26/04/2022

Problem statement:

Create an app for a museum that captures the museum labels using the phone camera and converts the contents into speech.

The label may contain text and longitude and latitude. The app should recognise the text and location details and provide a speech output

Design: (Block diagram)



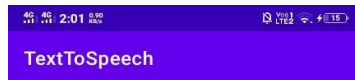
Tool used:

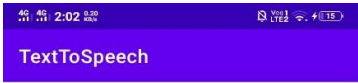
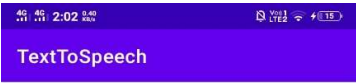
- Android Studio
- Java
- XML
- Camera API
- TextRecognizer API(Google vision)
- TextToSpeech API

Code:

https://drive.google.com/drive/folders/1ME77shM_DDcIjw4YwQmUA8fqM3wJIG_d?usp=s_haring

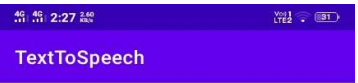
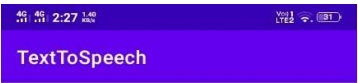
Screenshots of application:





SCAN

HELLO!



Station	Latitude	Longitude
1	01°19.647' N	103°26.180' E
2	01°19.419' N	103°25.792' E
3	01°19.943' N	103°26.352' E
4	01°20.206' N	103°25.108' E
5	01°18.383' N	103°25.222' E
6	01°18.895' N	103°26.259' E
7	01°20.169' N	103°25.517' E
8	01°20.040' N	103°25.320' E
9	01°19.175' N	103°32.482' E
10	01°21.758' N	103°32.206' E
11	01°23.966' N	103°32.146' E
12	01°26.492' N	103°29.655' E
13	01°27.457' N	103°33.188' E
14	01°22.604' N	103°38.342' E
15	01°23.208' N	103°38.743' E
16	01°20.636' N	103°34.372' E
17	01°16.260' N	103°30.960' E
18	01°15.608' N	103°30.531' E
19	01°17.040' N	103°28.734' E
20	01°16.980' N	103°30.600' E

SCAN

Station Latitude Longitude 103 26.180' E
01°19.419' N 103 25.792' E
01°19.943' N 103 26.352E
103 25.108'E
103 25.222' E
01°18.895' N 103 26.259 E
103 25.517E
01920.040N 103°25.320 E 01°19.647N 2 3
4 01°20.206' N 01°18.383 N 01°20.169' N
10



The text displayed was also being read out aloud with the help of TextToSpeech API which was shown during the demo