

## Assignment 7

Title: Android APIs.

Problem Statement - Implement application that uses android APIs like Google Map, recording & playing audio & video, using in-built camera.

Theory: 1

→ API stands for Application Programming Interface (API). It is a software intermediary that allows 2 applications to talk to each other. In other words, API is messenger that delivers your request to provider that you are requesting it from & then delivers response back to you.

Therefore, a good API makes it easier to develop a program by providing the building blocks.

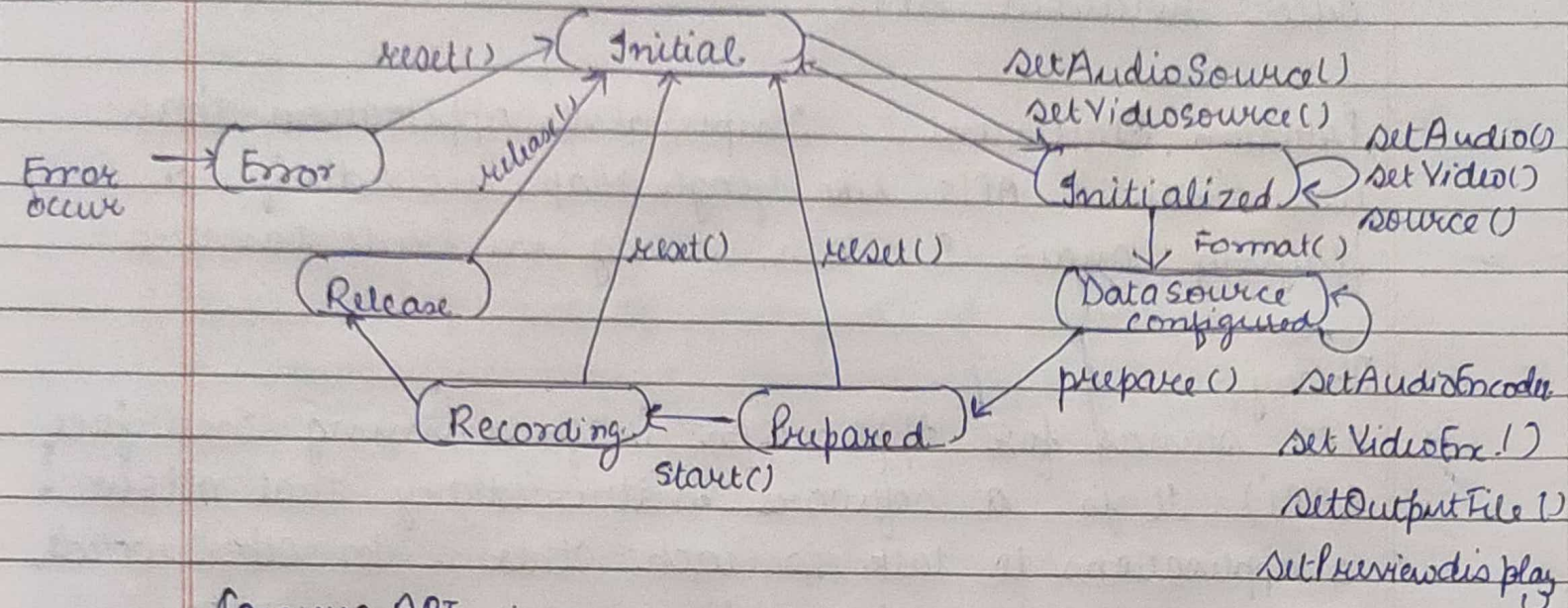
→ Maps SDK :-

It allows us to add maps based on Google Maps data to your application. API automatically handles access to Google Maps Servers, data downloadings, map display & response to map gesture. The API allows us to add following graphics to a map.

1. Icons anchored to specific positions on the map.
2. Sets of line segment copylines
3. Enclosed Segment (polygon)
4. Bitmap graphics anchored to specific positions on the map (ground Overlays)
5. Set images are displayed on Top of map



Media Recorder API : used to Record Audio & Video



### Camera API

This API includes support for various cameras & camera features available on device, allowing you to capture pictures & videos in your application.

Android hardware camera is primary API for controlling cameras.

Surface View is used to present live camera preview to the user.

### Conclusion

Through this assignment, I have learnt MediaRecorder API & its state diagram for recording Audio as well as using camera API to record & control Video.