

Here's a brief overview of my background projects related to Android:

User Information App:

Developed a simple app which does the following:

- Saves user information in to the database,
- Views information of all the users,
- Delete the information of the user and
- Update the information of the user.

I created my very first server using **NodeJS** . I used Heroku to host my NodeJs Application. The database I used in the app is a NoSQL database (MongoDB) using mlab. This is my beginner attempt on both nodejs and mongoDB. The main focus of this application is the **MVP** design pattern, **NodeJs** server and **MongoDB** database.

Worked as an Android Developer at App Partner:

I've worked on plenty of different applications while working there. I've developed an entire application on my own and I've worked on adding features and Bug fixes to existing applications as well.

Following are the name of the apps I've worked on:

- BlackCarFund
- JusMove
- Genlines
- ConAir
- B&H

Over my time at the company I've got myself quite familiar with

- Pivotal Tracker
- Git (SmartGit/Command line)
- Slack
- Zeplin

Working on different projects gave me a great deal of exposure. Used MVP / MVP Interactor pattern in all of the applications. Following proper company coding guidelines eventually helped me write efficient and clean code.

Kamcord Coding Challenge:

Challenge included to build only one app, but I made two:

App 1 (Original challenge)

- Used TextureView and ImageView in a gridlayout with recycler view.
- Allowing user to click on any thumbnail to play video associated with it.
- Made asynchronous calls to get the JSON.
- Implemented a custom on click on recyclerview.
- Support to set 5 items per row for tablets.

App 2

- This was a prototype of the original application of Kamcord.
- Used VideoView to play the videos.

App Partner Coding Challenge:

Built an application with following features:

- Using glide populated a listview.
- Made a post request for login using volley.
- Used fade in and fade out animation and on an imageview and allow user to drag drop that image.

Cam Filters:

Working on a simple camera application. The User can capture photo and apply different image filters.

- Used Camera API to capture photo.
- Used Opencv Android library for Image processing.

Good Quotes :

I used Forismatic API which provides a random motivational quote when you pass a key to it. Following are its features:

- AsyncTask to make Asynchronous calls.
- SQLite Database to store quotes that user's like.
- Shared Preferences to save the count (Key) which gets passed to the API(Web) to get a quote.
- Contextual Action bar (to select multiple items from list view and delete them).
- Allows user to share Text and Image of the quote with other applications.

FindOut – The Sentiment Analysis App:

I along with four other teammates developed a Sentiment Analysis Android application. The application would read people's tweets regarding each presidential candidates. We would run our analysis on those tweets and would try to find out whether the tweet is positive, negative or a neutral(using NLTK library on back end). We would then render the result from the back end and show the data in terms of graphs (pie chart for positive, negative and neutral tweets and line chart to show his positive trend over a period).

Demo Application I:

I used JSONPlaceholder to get fake json data. The application shows list of users, their albums, their photos and allows them to download those photos.

- Used ListView, GridView, RecyclerView and CardView.
- Used Fragments with View Pager and Tab Layout.
- Used Picasso to load the images and cache them. (Picasso provides cache mechanism).
- On Long press you can preview the image.

- Allowed user to download the image. (Applied run time permission for Android M).

Demo Application II:

- User authentication by providing a login interface via facebook, gmail and custom email.
- Push notification via Firebase console.
- A Navigation Drawer with circularImageView API.
- Used Glide API to load image.

Google Maps and Places Demo App:

It allows user to select a location (Suggestions provided by google places based on the input) and get photos in a Listview.

- Allows user to change Map Type to Hybrid, Normal, Satellite, etc.
- Allows user to enter location (Autocomplete with places API)
- Allows user to get photos (if any) from the places API.
- Used LruCache to cache those images.
- Used Android volley to make network calls.

RetroStyle Calculator:

A simple calculator application with a space theme.

- Used Media Player to play the button sounds.
- Used Shared Preferences to save the user's selection of Sound On/Off.

Good Reminders:

Currently working on this application which allows user to set reminders based on time and location.

- Used AlarmManager to set reminders.
- Used Ringtone Manager to set ringtone for the alarm.
- Used Pending Intents.
- Yet to implement Location based alarms.

Miscellaneous:

- Have worked a little on animation with overridePendingTransition, SurfaceView and Canvas.
- StartedServices and BroadcastReceivers.
- Different Sensors like Accelerometer, Ambient Temperature, Step Counter, Step Detector, etc.

Till now I've used the following APIs:

- Glide
- Retrofit
- Butterknife
- Picasso
- aChartEngine

- Camera API
- Google Maps
- Google Places
- Google Directions
- Volley
- CircularImageView and many more

I like to explore a lot about android. Right now I'm learning about **RxJava** and **Dagger**.

Published applications:

Good Quotes:

<https://play.google.com/store/apps/details?id=com.blackfruit.goodquotes>

Retro Calculator:

<https://play.google.com/store/apps/details?id=com.blackfruit.retrostylecalculator>

FindOut:

<https://github.com/sagarlakhia/FindOut>

<https://www.youtube.com/watch?v=6fo9uE9pKm0>

Demo App I :

https://github.com/sagarlakhia/Android_Projects/tree/master/Demo_App1

<https://www.youtube.com/watch?v=yF3drgT6di0>

Demo App II :

https://github.com/sagarlakhia/Android_Projects/tree/master/Demo_App2

<https://www.youtube.com/watch?v=rFVatMz9i5E>

You can check my other work on my Github at <https://github.com/sagarlakhia>

Thank you.

Sagar