**Connect : )** a way to interact with people

**Project Report**

PROJECT REPORT

ON

# CONNECT : )

Submitted in partial fulfilment of the

Requirements for the award of

DIPLOMA

in

## COMPUTER ENGINEERING



## Submitted by

| | | |
|---|---|---|
| 1. | 15018-CM-029 | **M Mani Sai Prasad** |
| 2. | 15018-CM-041 | **B Purushotham** |
| 3. | 15018-CM-003 | **V Bala Naveen** |
| 4. | 15018-CM-402 | **N Lava Kumar** |
| 5. | 15018-CM-008 | **T Dileep** |
| 6. | 15018-CM-056 | **T Venkateswara Reddy** |
| 7. | 15018-CM-047 | **T Sai Kiran** |
| 8. | 15018-CM-001 | **G Akanksha** |
| 9. | 15018-CM-027 | **V Kiran Bindhu** |

**S. V. Govt. Polytechnic, Tirupati**

**2017-2018**

# DEPARTMENT OF COMPUTER ENGINEERING

## S. V. GOVT. POLYTECHNIC

## TIRUPATI

### CERTIFICATE

This is to certify that the project work, entitled **"Connect : )"** has been carried out by following students of final year diploma in Computer Engineering at S. V. GOVT. POLYTECHNIC in the year 2017-18.

**Submitted By:-**

| | | |
|---|---|---|
| 1. | 15018-CM-029 | **M Mani Sai Prasad** |
| 2. | 15018-CM-041 | **B Purushotham** |
| 3. | 15018-CM-003 | **V Bala Naveen** |
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| 5. | 15018-CM-008 | **T Dileep** |
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| 7. | 15018-CM-047 | **T Sai Kiran** |
| 8. | 15018-CM-001 | **G Akanksha** |
| 9. | 15018-CM-027 | **V Kiran Bindhu** |

Head of the Department

Sri. G. Bosu Babu, M.Tech

Head of Computer Engineering

S. V. Govt. Polytechnic, Tirupati

Internal Examiner                                        External Examiner

# _ACKNOWLEDGEMENT_

_The person to be thanked in this criteria is the goodness whose blessing made us to complete this successfully is **SRI G.BOSU BABU, M.Tech.,**_

_Next, we would like to thank **SRI K.VENKATRAMI REDDY, M.Tech.,** Principal SVGP, Tirupati and **SRI G.BOSU BABU, M.Tech.,** HEAD OF  COMPUTER ENGINEERING SECTION, SVGP, Tirupati._

_We are thankful to our Guide, **Smt. K.SUGUNA M.Tech.,** who sustained the entire stand inspiring Guidance throughout the process of this project. We express our deep sense of gratitude and thanks to all those who stood behind us during the project and helped us to make it a successful venture ._

_Next, we convey our regards to the Lecturers in Computer Engineering for giving their valuable suggestions and guidance, which helped us in completing this project successfully._

_Last but not the least we thank our parents , friends and well-wishers who helped a lot in making the report of this project._

# CONTENTS

- ✓ Abstract
- ✓ Introduction
- ✓ Implemented elements and features
- ✓ Brief Overview of the Technology
- ✓ Requirements
- ✓ How application looks like
- ✓ Source code
- ✓ Reference

# **Abstract**

This project is aimed to developing an Android Application to establish communication to an origination(Company) or a group of people. Which is mainly used to share the data with all the users of the android application

This application will provide the better communication for the people of the same organisation or group

This application can be used inside a company for communication purpose

This application will provide the data privacy to the organisation(company) or group of people. so, they only able to communicate

This is the easy way to share the data between the people belongs to same organisation(company) or group

# Introduction

**Connect : ) A New way to communicate**

It's a new way of communication service for an origination(Company) or a group of people. Today we have many platforms for sharing data but it's somewhat difficult. Because we used to send mail's and other thing which will we clumsy to share the content which you want to send.

This application will have comprising posts, likes, comments, views, and others that can be used for Better sharing of the content which you want to share.

It is Firebase-based and uses such Firebase features as the database, storage, and authentication. Our app has Firebase queries implemented in it, i.e. data pagination, filtering data by an author(user). As well, it is working with Firebase transaction for counting likes, views, and comments. This is user-friendly animation guides a person by opening screens of details and a user profile.

# Implemented elements and features:

## Main Screen

- Hiding Toolbar when the post list is scrolling down and showing it again when it's scrolling up.
- Recycler View with Card Views
- Float Action Button
- Snack Bar for messages
- Refresh a screen
- Loading posts by parts (Progress bar in the bottom of the screen for loading the next portion of posts)

## Registration screen

- Facebook Sign-In
- Google Sign-In

## Create profile

- Feeling in fields with data from social network
- Text Input Layout
- Pick image or take photo

## Create post

- Text Input Layout
- Pick image or take photo

## Post Details

- Clickable link in description
- Like button animation
- Add comments
- Scroll to the first comment by press on Comments Counter
- Collapse/expand text in the long comments
- Add complain about the post
- Page is updated in real time

## Image Details

- Zooming image

## Post Details. Comments

- Comments counter
- Collapse / expand text of large comment
- Date of a comment

## Profile

- Posts and likes counters
- Refresh list of posts
- Update profile information (photo and name) in real time
- Recycler View with Card Views
- My profile options:
    - sign in
    - edit profile
    - create a post

## Panel of Counter

- Counters of watches, likes and comments
- Created date
- Possibility to add like by click on "like" button
- Animation of like button

## Edit profile

- Feeling in fields with personal info of current user
- Text Input Layout
- Pick image or take photo

# Brief Overview of the Technology

**Frontend:** Android XML, Android Activity

**Android XML:**

   **XML** stands for Extensible Mark-up Language.**XML** is a very popular format and commonly used for sharing data on the internet. **Android** provides three types of **XML** parsers which are DOM, SAX and XMLPullParser. Among all of them android recommend XMLPullParser because it is efficient and easy to use. So, we are going to use XMLPullParser for parsing XML.

**Android Activity:**

   **Activity** is a Java code that supports a screen or UI. In other words, building block of the user interface is the **activity**. **Activity** class is a pre-defined class in **Android** and every application which has UI must inherit it to create window.

**Backend:** Firebase Auth, Firebase Realtime database, firebase storage

**Firebase Auth**

   Firebase Auth is a service that can authenticate users using only client-side code. It supports social login providers Facebook, GitHub, Twitter and Google (and Google Play Games). Additionally, it includes a user management system whereby developers can enable user authentication with email and password login stored with Firebase

**Realtime Database**

Firebase provides a realtime database and backend as a service. The service provides application developers an API that allows application data to be synchronized across clients and stored on Firebase's cloud. The company provides client libraries that enable integration

with Android, iOS, JavaScript, Java and Node.js applications. The database is also accessible through a REST API and bindings for several JavaScript frameworks such as AngularJS, React, Ember.js and Backbone.js The REST API uses the Server-Sent Events protocol, which is an API for creating HTTP connections for receiving push notifications from a server. Developers using the Realtime database can secure their data by using the company's server-side-enforced security rules Cloud Firestore which is Firebase's next generation of the Realtime Database was released for beta use.

*Firebase Storage*

Firebase Storage provides secure file uploads and downloads for Firebase apps, regardless of network quality. The developer can use it to store images, audio, video, or other user-generated content. Firebase Storage is backed by Google Cloud Storage

# Requirements

## Software Requirements:

Android Studio

Java JDK

Android Emulator

Android SDK

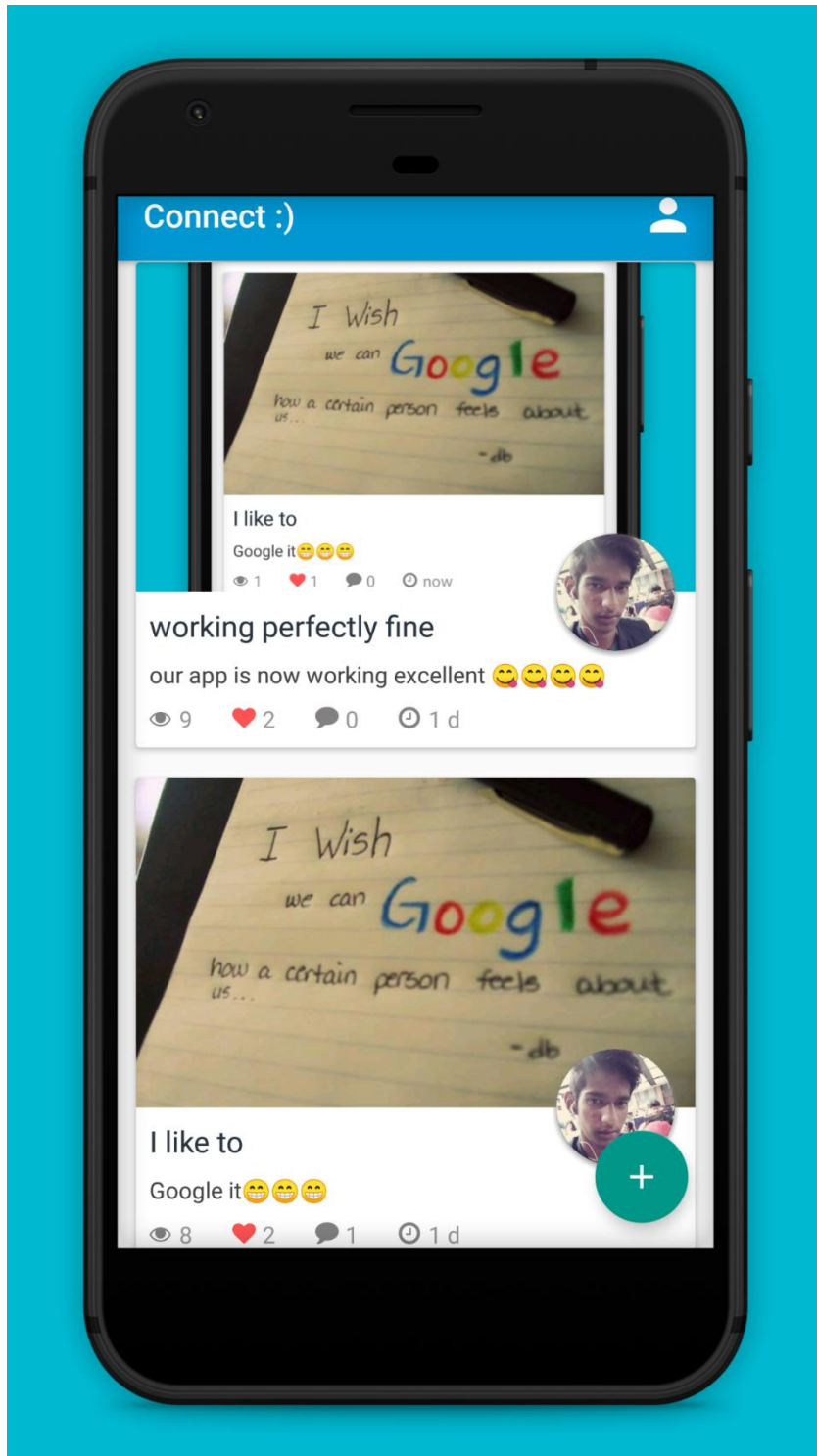## Backend Requirements

Google Developers Account

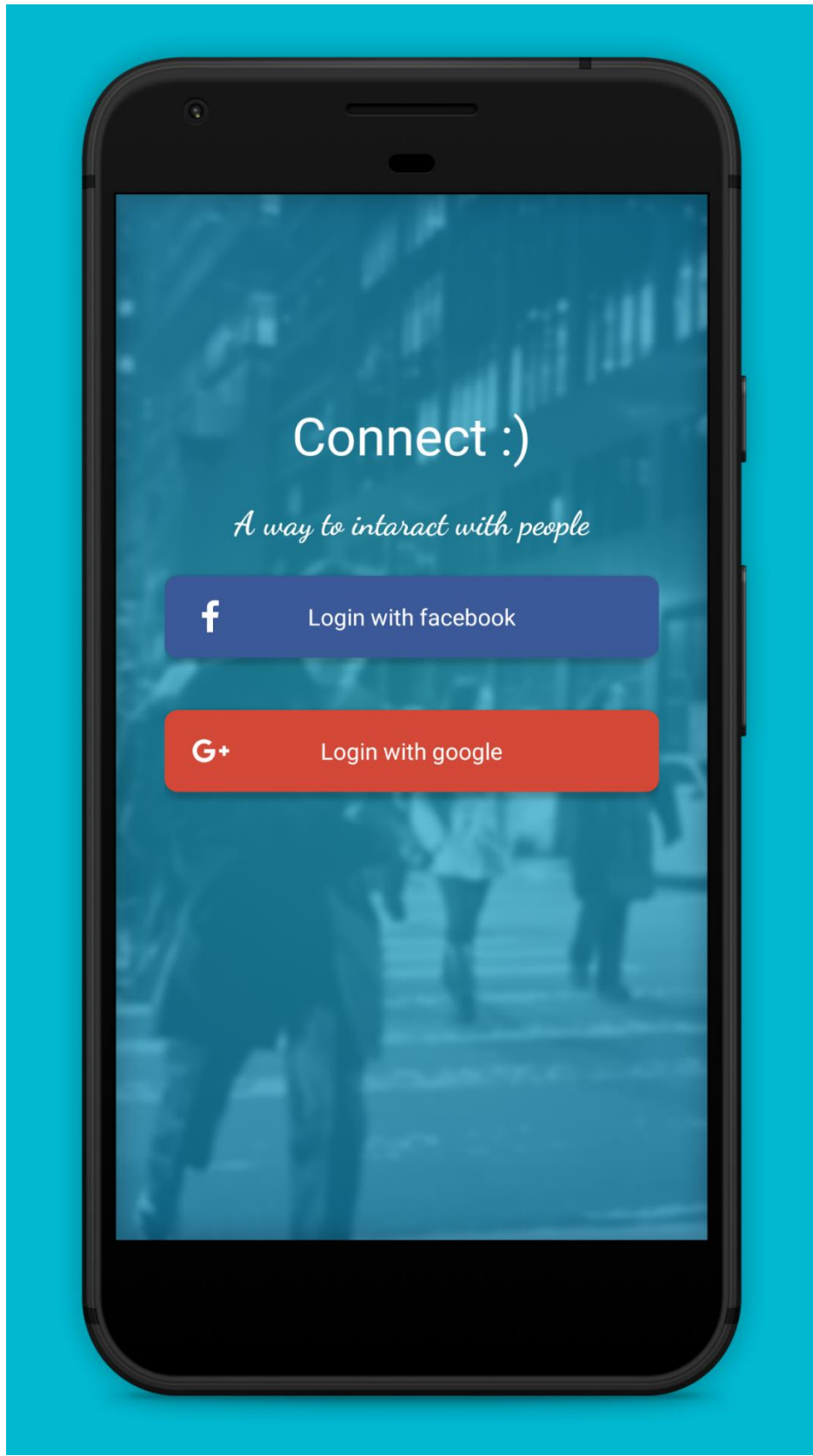## Hardware Requirements:

3GB of RAM (4GB recommended)

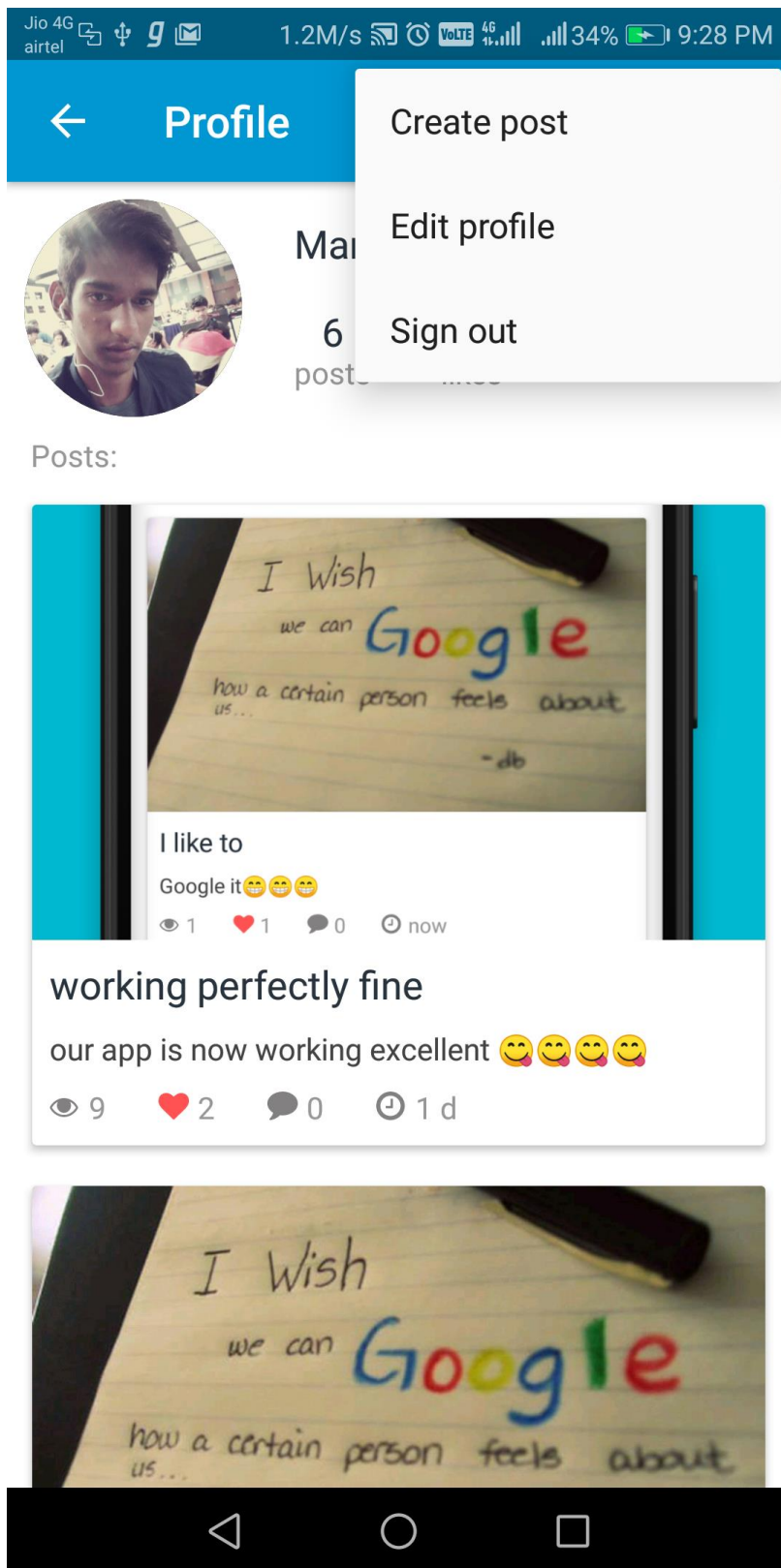1.5 GHz or more Processor

# How Application Look's like

# Home Screen

## Login Screen

## Profile Screen

## Post Screen



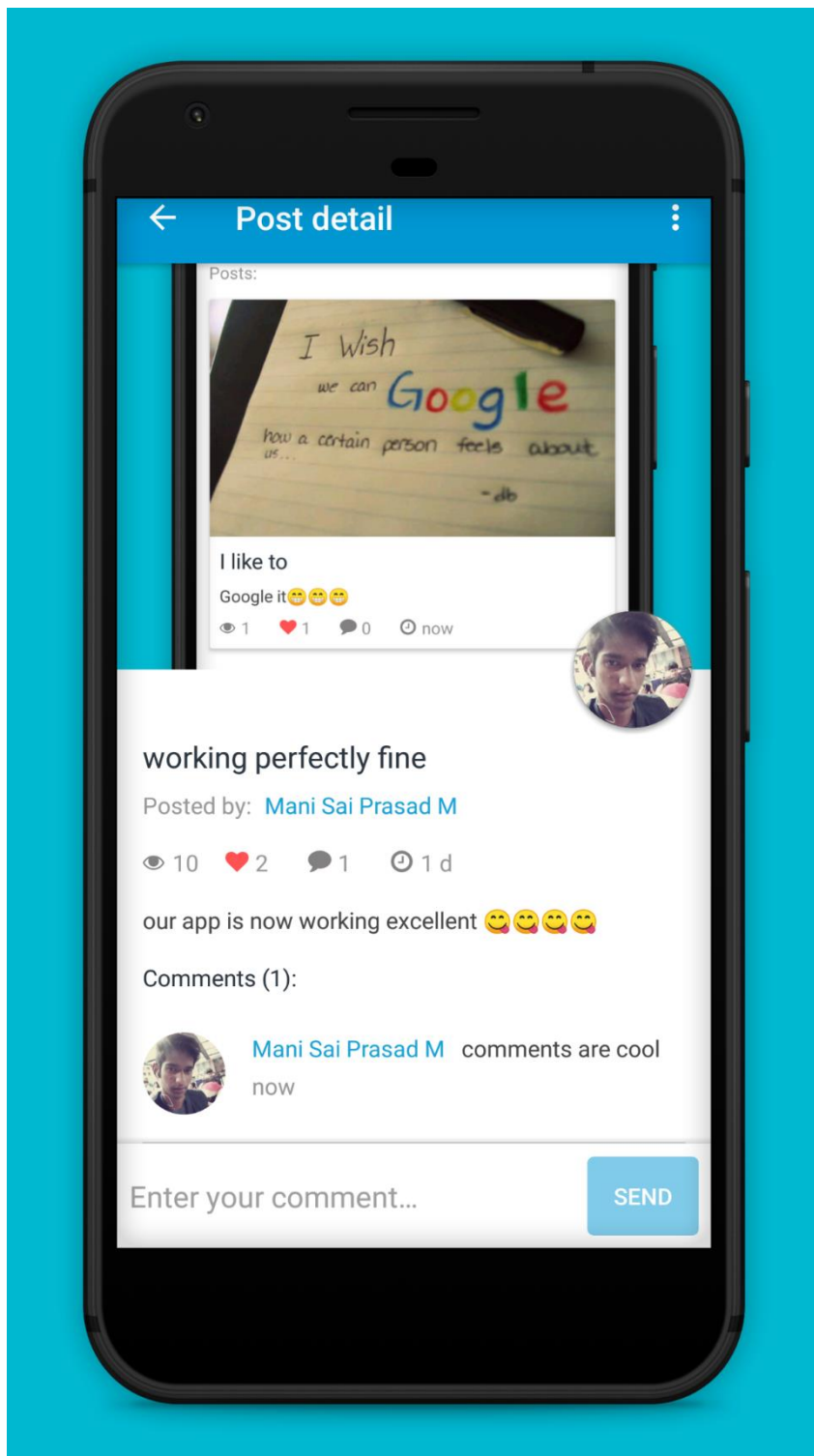**Create post** POST

NO IMAGE
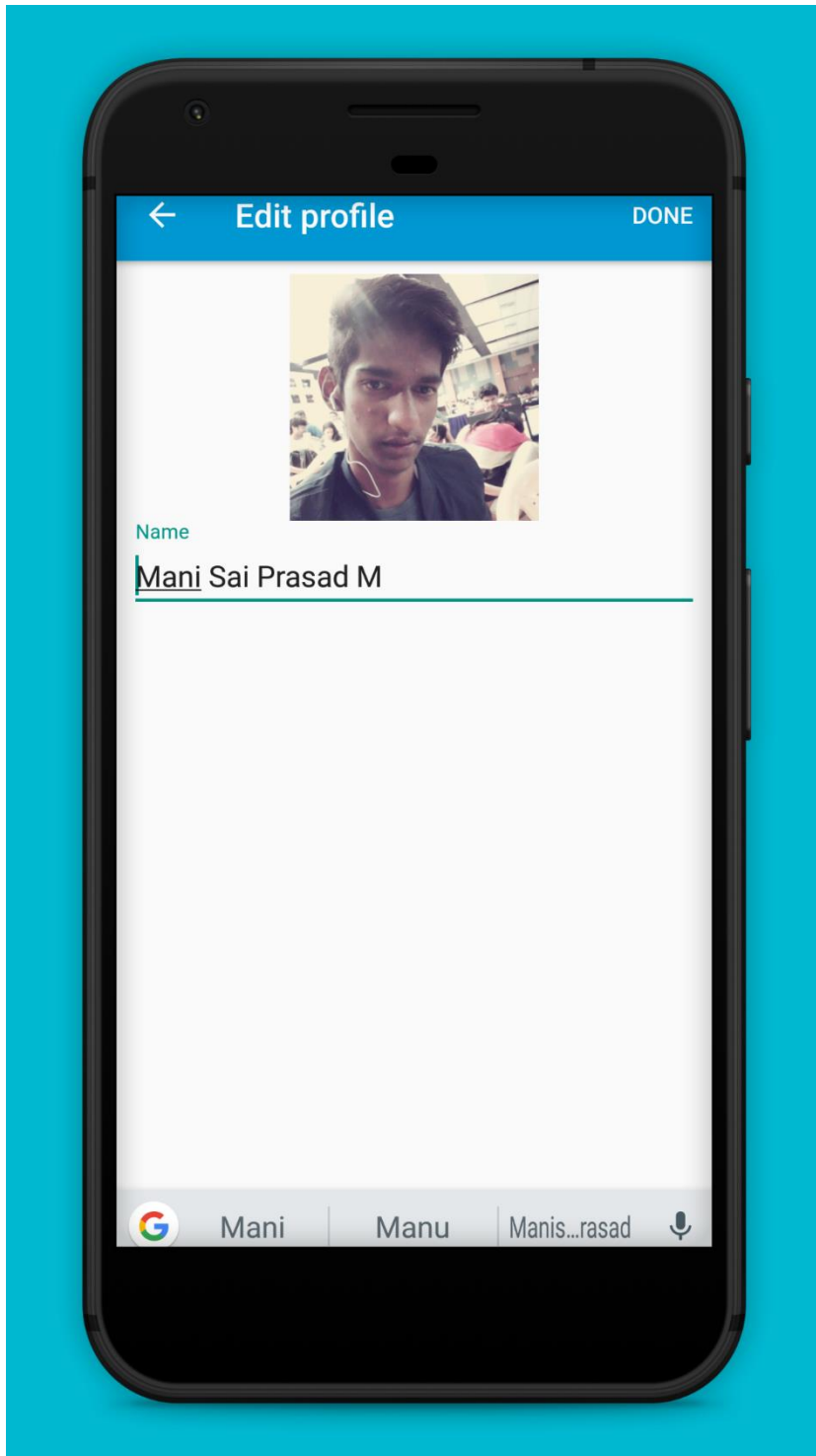
Title

Description

# Post details screen

# Edit Profile Screen

# Code:

## activity_main.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main_content"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="false"
    tools:context=".activities.MainActivity">

    <android.support.design.widget.AppBarLayout
        android:id="@+id/appbar"
        android:layout_width="match_parent"
        android:layout_height="?attr/actionBarSize"
        android:fitsSystemWindows="true"
        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <android.support.v7.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:fitsSystemWindows="true"
            app:layout_scrollFlags="scroll|enterAlways"
            app:popupTheme="@style/ThemeOverlay.AppCompat.Light" />

    </android.support.design.widget.AppBarLayout>

    <ProgressBar
        android:id="@+id/progressBar"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        style="@android:style/Widget.DeviceDefault.Light.ProgressBar.Large" />

    <RelativeLayout
        android:id="@+id/activity_main"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior">

        <android.support.v4.widget.SwipeRefreshLayout
            android:id="@+id/swipeContainer"
```

```xml
            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <android.support.v7.widget.RecyclerView
                android:id="@+id/recycler_view"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:divider="@null"
                android:paddingBottom="@dimen/intrinsic_padding" />

        </android.support.v4.widget.SwipeRefreshLayout>

        <TextView
            android:id="@+id/newPostsCounterTextView"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="16dp"
            android:padding="@dimen/intrinsic_padding"
            android:background="@drawable/posts_counter_bg"
            android:textColor="@android:color/white"
            android:gravity="center_vertical"
            android:visibility="gone"/>

    </RelativeLayout>

    <android.support.design.widget.FloatingActionButton
        android:id="@+id/addNewPostFab"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_margin="@dimen/large_intrinsic_padding"
        android:clickable="true"
        android:src="@drawable/ic_add_white_48dp"
        android:layout_gravity="bottom|right" />

</android.support.design.widget.CoordinatorLayout>
```

# Activity-post-details.xml

```xml
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/main_content"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@android:color/white"
```

```xml
    android:orientation="vertical"
    tools:context=".activities.ProfileActivity">

    <android.support.v4.widget.SwipeRefreshLayout
        android:id="@+id/swipeContainer"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior">

        <FrameLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <ProgressBar
                android:id="@+id/postsProgressBar"
                android:layout_width="@dimen/progress_bar_size"
                android:layout_height="@dimen/progress_bar_size"
                android:layout_gravity="top|center_horizontal"

android:layout_marginTop="@dimen/profile_screen_margin_top_progress_bar"/>

            <android.support.v7.widget.RecyclerView
                android:id="@+id/recycler_view"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:paddingBottom="@dimen/intrinsic_padding" />

        </FrameLayout>

    </android.support.v4.widget.SwipeRefreshLayout>

    <android.support.design.widget.AppBarLayout
        android:id="@+id/appbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/ThemeOverlay.AppCompat.Dark.ActionBar">

        <android.support.design.widget.CollapsingToolbarLayout
            android:id="@+id/collapsingToolbar"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:background="@android:color/white"
            app:layout_scrollFlags="scroll|exitUntilCollapsed|snap"
            app:titleEnabled="false">

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
```

```xml
            android:orientation="vertical">

        <RelativeLayout
            android:id="@+id/profileInfo"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_marginTop="?attr/actionBarSize"
            android:paddingLeft="@dimen/intrinsic_padding"
            android:paddingRight="@dimen/intrinsic_padding"
            android:paddingTop="@dimen/intrinsic_padding"
            app:layout_collapseMode="parallax">

            <RelativeLayout
                android:id="@+id/imageContainer"

android:layout_width="@dimen/profile_screen_avatar_size"

android:layout_height="@dimen/profile_screen_avatar_size"
                android:layout_alignParentStart="true"
                android:layout_alignParentTop="true">

                <ProgressBar
                    android:id="@+id/progressBar"
                    android:layout_width="@dimen/progress_bar_size"
                    android:layout_height="@dimen/progress_bar_size"
                    android:layout_centerInParent="true"
                    android:visibility="visible" />

                <com.rozdoum.socialcomponents.views.CircularImageView
                    android:id="@+id/imageView"
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    app:border="false"
                    app:shadow="false"

android:transitionName="@string/post_author_image_transition_name"
                    tools:targetApi="lollipop"/>

            </RelativeLayout>

            <LinearLayout
                android:id="@+id/linearLayout"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_alignParentTop="true"

android:layout_marginLeft="@dimen/profile_screen_avatar_right_margin"
                android:layout_toEndOf="@+id/imageContainer"
```

```xml
                        android:orientation="vertical">

            <TextView
                android:id="@+id/nameEditText"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"

android:layout_marginBottom="@dimen/large_intrinsic_padding"
                android:paddingTop="@dimen/intrinsic_padding"

android:textAppearance="@style/TextAppearance.Title" />

            <LinearLayout
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:orientation="horizontal">

                <TextView
                    android:id="@+id/postsCounterTextView"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"

android:layout_marginRight="@dimen/profile_screen_margin_between_counters"
                    android:gravity="center"

android:textAppearance="@style/TextAppearance.Title"
                    android:visibility="invisible" />

                <TextView
                    android:id="@+id/likesCountersTextView"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:gravity="center"

android:textAppearance="@style/TextAppearance.Title"
                    android:visibility="invisible" />

            </LinearLayout>

        </LinearLayout>

    </RelativeLayout>

    <TextView
        android:id="@+id/postsLabelTextView"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```xml
                android:layout_marginLeft="@dimen/post_card_content_padding_left"
                                android:paddingTop="@dimen/intrinsic_padding"
                                android:text="@string/posts_label"

                android:textAppearance="@style/TextAppearance.Second.Light" />

                    </LinearLayout>

                    <android.support.v7.widget.Toolbar
                        android:id="@+id/toolbar"
                        android:layout_width="match_parent"
                        android:layout_height="?attr/actionBarSize"
                        android:background="@color/primary"
                        android:elevation="4dp"
                        android:fitsSystemWindows="true"
                        app:layout_collapseMode="pin"
                        app:popupTheme="@style/ThemeOverlay.AppCompat.Light" />

                </android.support.design.widget.CollapsingToolbarLayout>

        </android.support.design.widget.AppBarLayout>


</android.support.design.widget.CoordinatorLayout>
```

# Avtivity-create-profile.xml

```xml
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:focusableInTouchMode="true"
    android:focusable="true"
    android:background="@android:color/white">

    <ScrollView
        android:id="@+id/scrollView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_above="@+id/newCommentContainer"
        android:layout_alignParentTop="true">

        <RelativeLayout
            android:id="@+id/activity_post_details"
```

```xml
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

        <RelativeLayout
            android:id="@+id/imageContainer"
            android:layout_width="match_parent"
            android:layout_height="@dimen/post_detail_image_height"
            android:layout_marginBottom="@dimen/intrinsic_padding"
            android:layout_alignParentTop="true">

            <ProgressBar
                android:id="@+id/progressBar"
                android:layout_width="@dimen/progress_bar_size"
                android:layout_height="@dimen/progress_bar_size"
                android:layout_centerInParent="true"
                android:visibility="visible" />

            <ImageView
                android:id="@+id/postImageView"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:scaleType="centerCrop"
                android:visibility="visible"

android:transitionName="@string/post_image_transition_name"
                tools:targetApi="lollipop"/>

        </RelativeLayout>

        <TextView
            android:id="@+id/titleTextView"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignParentStart="true"
            android:layout_below="@+id/authorImageView"
            android:layout_marginBottom="@dimen/intrinsic_padding"
            android:layout_toStartOf="@+id/authorImageView"
            android:paddingLeft="@dimen/large_intrinsic_padding"
            android:paddingRight="@dimen/large_intrinsic_padding"
            android:textAppearance="@style/TextAppearance.Title"
            android:layout_alignEnd="@+id/authorImageView" />

        <LinearLayout
            android:id="@+id/authorContainer"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignParentStart="true"
            android:layout_below="@+id/titleTextView"
```

```xml
                android:layout_marginBottom="@dimen/intrinsic_padding"
                android:orientation="horizontal"
                android:paddingLeft="@dimen/large_intrinsic_padding"
                android:paddingRight="@dimen/large_intrinsic_padding">

                <TextView
                    android:id="@+id/authorLabelTextView"
                    android:layout_width="wrap_content"
                    android:layout_height="wrap_content"
                    android:layout_marginRight="@dimen/intrinsic_padding"
                    android:text="@string/posted_by_label"

android:textAppearance="@style/TextAppearance.Second.Light" />

                <TextView
                    android:id="@+id/authorTextView"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:textAppearance="@style/TextAppearance.Highlight"
/>

            </LinearLayout>

            <include
                android:id="@+id/countersContainer"
                layout="@layout/counters_panel"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_below="@+id/authorContainer"
                android:layout_marginBottom="@dimen/intrinsic_padding"
                android:layout_marginLeft="@dimen/large_intrinsic_padding"
                android:layout_marginRight="@dimen/large_intrinsic_padding" />

            <TextView
                android:id="@+id/descriptionEditText"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_below="@+id/countersContainer"
                android:layout_marginBottom="@dimen/large_intrinsic_padding"
                android:paddingLeft="@dimen/large_intrinsic_padding"
                android:paddingRight="@dimen/large_intrinsic_padding"
                android:autoLink="all"
                android:textAppearance="@style/TextAppearance.Second" />

            <TextView
                android:id="@+id/commentsLabel"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
```

```xml
            android:layout_below="@+id/descriptionEditText"
            android:layout_marginBottom="@dimen/intrinsic_padding"
            android:paddingLeft="@dimen/large_intrinsic_padding"
            android:paddingRight="@dimen/large_intrinsic_padding"
            android:text="Comments"
            android:textColor="@color/primary_dark_text"
            android:visibility="gone" />

    <RelativeLayout
            android:id="@+id/commentsParentContainer"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_below="@+id/commentsLabel"
            androdid:paddingLeft="@dimen/large_intrinsic_padding"
            android:paddingRight="@dimen/large_intrinsic_padding">

        <android.support.v7.widget.RecyclerView
                android:id="@+id/commentsRecyclerView"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical"
                android:visibility="gone"
                app:layoutManager="LinearLayoutManager"
                tools:listitem="@layout/comment_list_item" />

        <ProgressBar
                android:id="@+id/commentsProgressBar"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_centerInParent="true"
                android:visibility="visible" />

        <TextView
                android:id="@+id/warningCommentsTextView"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:gravity="center"
                android:padding="@dimen/intrinsic_padding"
                android:text="@string/internet_connection_failed"
                android:visibility="gone" />

    </RelativeLayout>

    <com.rozdoum.socialcomponents.views.CircularImageView
            android:id="@+id/authorImageView"
            android:layout_width="@dimen/post_author_image_side"
            android:layout_height="@dimen/post_author_image_side"
            android:layout_alignParentEnd="true"
```

```xml
                android:layout_alignTop="@+id/imageContainer"
                android:layout_marginRight="@dimen/intrinsic_padding"
                android:layout_marginTop="@dimen/post_author_image_margin"
                app:border="false"
                app:shadow="true"
                app:shadow_color="@color/circle_image_shadow"
                app:shadow_radius="@dimen/circle_image_shadow_radius"

android:transitionName="@string/post_author_image_transition_name"
                tools:targetApi="lollipop"/>

        </RelativeLayout>
    </ScrollView>

    <View
        android:id="@+id/shadow"
        android:layout_width="match_parent"
        android:layout_height="4dp"
        android:layout_above="@+id/newCommentContainer"
        android:background="@drawable/top_shadow" />

    <LinearLayout
        android:id="@+id/newCommentContainer"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        android:orientation="horizontal">

        <EditText
            android:id="@+id/commentEditText"
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_gravity="center_vertical"
            android:layout_weight="1"
            android:background="@android:color/transparent"
            android:hint="@string/comment_text_hint"
            android:inputType="textMultiLine"
            android:maxHeight="@dimen/new_comment_max_height"
            android:minHeight="@dimen/new_comment_min_height"
            android:padding="@dimen/intrinsic_padding" />

        <Button
            android:id="@+id/sendButton"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_gravity="center_vertical"
            android:layout_margin="@dimen/intrinsic_padding"
            android:background="@drawable/send_comment_button_bg"
```

```xml
            android:enabled="false"
            android:minWidth="0dp"
            android:paddingLeft="@dimen/large_intrinsic_padding"
            android:paddingRight="@dimen/large_intrinsic_padding"
            android:text="@string/send_comment_button_label"
            android:textColor="@android:color/white" />
    </LinearLayout>

</RelativeLayout>
```

# Activty-profile.xml

```xml
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:gravity="center_horizontal"
    android:orientation="vertical"
    android:padding="@dimen/intrinsic_padding"

tools:context="com.rozdoum.socialcomponents.activities.CreateProfileActivity">

    <ScrollView
        android:id="@+id/regForm"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

        <LinearLayout
            android:id="@+id/email_login_form"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:focusableInTouchMode="true"
            android:orientation="vertical">

            <RelativeLayout
                android:id="@+id/imageContainer"
                android:layout_width="@dimen/profile_photo_side"
                android:layout_height="@dimen/profile_photo_side"
                android:layout_gravity="center_horizontal">

                <ProgressBar
                    android:id="@+id/progressBar"
                    android:layout_width="@dimen/progress_bar_size"
                    android:layout_height="@dimen/progress_bar_size"
```

```xml
                android:layout_centerInParent="true" />

            <ImageView
                android:id="@+id/imageView"
                android:layout_width="match_parent"
                android:layout_height="match_parent" />

        </RelativeLayout>

        <android.support.design.widget.TextInputLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">

            <EditText
                android:id="@+id/nameEditText"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:hint="@string/prompt_name"
                android:imeActionId="@+id/createProdile"
                android:imeOptions="actionUnspecified"
                android:inputType="textEmailAddress"
                android:maxLines="1" />

        </android.support.design.widget.TextInputLayout>

    </LinearLayout>
  </ScrollView>
</LinearLayout>
```

# Reference

We got help from android developer's docs, firebase docs and card layouts and we referred some other docs

https://developer.android.com/index.html

https://developer.android.com/guide/index.html

https://firebase.google.com/docs/