War Tube

(ANDROID)

Anyone familiar with YouTube will know that one creator has dominated the platform for the past 5 years as the most-subscribed-to channel. **PewDiePie**, one of the most talked-about gamers in the world, has held onto his position as King of YouTube since 2013, but his crown is in danger as Indian Media company, **T-Series**, looks on course to surpass PewDiePie's over 75 Million subscribers in the next few days – and that news has caused quite a stir.

Necessary Features:

- The main screen of the app must a MainActivity with a **BottomNavigationBar / Tab Layout**. It should have two options- "Stats" and "Posts". By default, the Stats page should be displayed.
- The stats page should show two **ImageViews** logos of both channels and two **TextViews** displaying the current Subscriber count.
  Use the **Retrofit** library for Android and the **YouTube Data API**.
- Clicking on the Post Button for the first time should display a login page.

If not registered, the user should be able to register using a username and a password.

Hint : You may need to read about **Firebase Authentication** to get an insight into this.

- You also need to think of a way by which on opening the Posts page, the login screen is not shown when a user has already logged in the last time he/she opened the app.

  Hint : You may need to read about **Shared Preferences** to get an insight into this.

- The Posts screen of the app will be an **Activity/Fragment** with a list of posts from various users. These posts will be plain text and displayed on the screen through **ListView** in Android and fetched through **Firebase Database** as mentioned below.

- There should be an option for the user to post something if he/she wishes, and the data which the user prefers to post will be saved in an online database. This can be done through **Firebase Databases**. Just google and read its documentation to find out.

- There should be a provision of Logout for the users.

Optional Features:

- Elegant User Interface, particularly **Material UI**.
- Displaying a bar graph in stats page, showing the number of subscribers of each channel and also the difference of both these figures in real time.

- Using the newly introduced architecture components (**Android Jetpack**).

- Using **RecyclerViews** instead of **ListViews** will be a great addition to the UI.

- Allowing the user to log in via google/facebook (have a look at apps which provide such feature to get an idea).

- Allowing users to upload an image along with text will be highly appreciated.

- Introducing a feature of being able to react to a specific post will be an addon.

- Receiving a notification for every new activity (post/like) will be counted as a plus point. Read about **Notification/NotificationManager** to find out.

- Any additional features from your side are most welcome given that you have implemented all the necessary features.

PS : Bold words can be used as keywords for google search.