Flutter Course 

***Coding Club, IIT Guwahati***

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**WEEK 4 OBJECTIVE**

* Like posts
* Profile Visit
* Follow, unfollow each other

In this week’s assignment, we will implement:

1. The search page, with the following features:
2. One must be able to search for a user from the list of registered users.
3. Clicking on a user in the search results should take you to the profile of the user.
4. One must be able to follow a user by clicking on the follow button.
5. When a user clicks on the follow button the no. of followers should update automatically

2. The user will be able to like posts on clicking on the heart icon, and the number of likes must be updated

**Resources:**

1. For Search Query :

The following video covers how to implement search query:

[Flutter Search In Cloud Firestore |Full Text Search|Flutter Search Firebase|Flutter Search Firestore](https://www.youtube.com/watch?v=urptw_qd1CI&t=215s)

OR

You can first read all data stored in the database and store it in a list object and then search from the list. To do this refer to the following tutorials:

1. To store the data in a list: [How to Use Firebase in Flutter - Part 2 (Retrieving Data)](https://youtu.be/730eVDuN5zc)
2. To search within a list:

[(Ep 54) Search List View With Flutter & Firestore](https://youtu.be/H3CCtCmBUoQ)

To see the documentation click [here](https://firebase.flutter.dev/docs/firestore/usage)

Optional:

If you want to implement instant search that is search operation is being carried out as you are typing the text generating a list of values with the same initial letters with what you have typed refer to the following video: [Flutter - Instant search with Firestore](https://www.youtube.com/watch?v=0szEJiCUtMM&t=77s)

Note: Since the Firestore package was updated recently, if you come across old tutorials, change Firestore->FirebaseFirestore, document->doc, documents->docs. Always refer the [official documentation](https://firebase.flutter.dev/docs/firestore/usage/) for the current syntax.

2. Like and Follow:

These are the most simple tasks. You just have to use the Firestore update function to increase the value of a field in a particular doc in Firestore collection..

[For reference](https://stackoverflow.com/questions/59017373/how-to-update-collection-documents-in-firebase-in-flutter)

Refer to the second answer in the above link in case you are using the most recent version of Firestore.

**Task:**

In this task, we will be implementing the search page in the Instagram clone and like, follow feature that we have been developing for the past 2 weeks.

1. When the user goes to the search page and clicks on the search bar a new page opens up. The new page should have the list of all users registered in the app(Try to register at least 15-20 users beforehand)
2. The user should be able to search a user from the list of registered users
3. Clicking on any of the users listed in the search results should take you to the profile page of the user.
4. On the profile page click on the follow button should increment the count of followers by 1 and the follow button should turn into an unfollow button
5. Clicking on the unfollow button should decrease the number of followers by 1.
6. Also on the main page where all the posts are displayed when you click on the like button the number of likes should be updated..

A Figma prototype for tasks 1-5 can be found below. On the Figma, page click on the play button on the top right of the screen and then click on the search bar. [Click here to see the Figma File](https://www.figma.com/file/aK3l3BfshA4QUUYb5EYYol/Flutter-Course-Week-4?node-id=0%3A1)

**SUBMISSION**

You have to submit the Github repo link and a screen recording of the Instagram Clone App.

**Note**- The screen recording must contain all the features you have implemented in the app till now, i.e all Week 2, 3 and Week 4 tasks.

So if you could not implement a particular feature while submitting Week 2 or 3’s task, you can complete it along with week 4’s task. It will be considered during Week 4 evaluation.

Please show all the features in the screen recording to be eligible for certificate of merit

[**Click here to submit**](https://docs.google.com/forms/d/e/1FAIpQLSdeCKaMm_4r0HCgGkY_rXGo1wxIH5Ikjl1BmDLG02u4jWpEHA/viewform?usp=sf_link) **DEADLINE- 8th August EOD**