

# How to Make an App with Databases

Module 2  
Lesson 7  
Worksheet



## Welcome!

In this worksheet, you'll continue working with the worksheet project from Lesson 6. If you didn't do that worksheet assignment, just download the solution project and use that for this worksheet.

Add your GoogleService-Info.plist to it.

You'll be working with the Quotes data from the last worksheet as well so if you've gotten rid of it, then download the WorksheetSampleData.json file (located below Lesson 6) and import it into your Firebase database.

**Note:** This will overwrite your existing database data so make sure you export your current data to a JSON file if you want to restore it later.

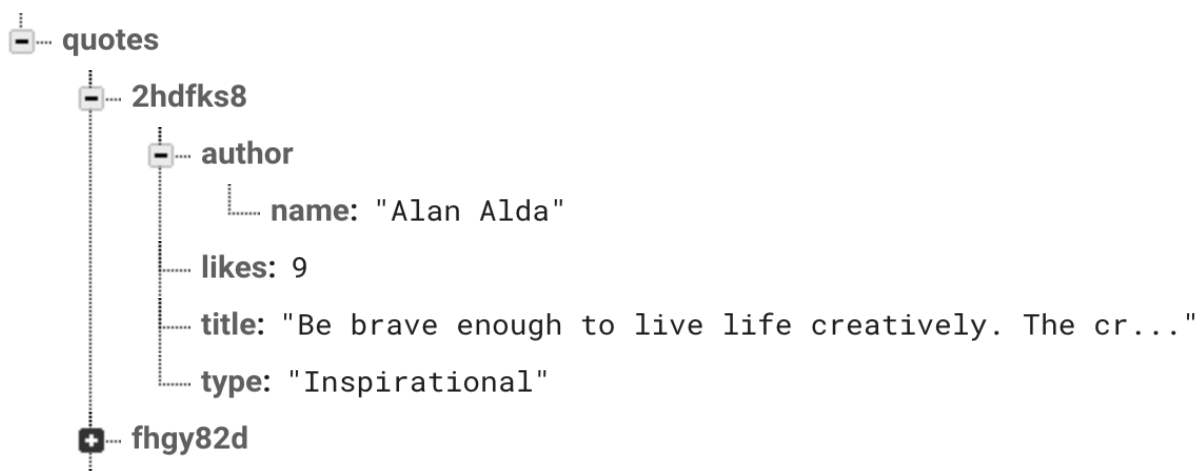
## Challenge:

Go to the **DetailViewController.swift**. You'll find an IBAction called **likeTapped**.

Your task is to implement the code here so that when the like button is tapped, you increment the **likes** count in the database for that quote.

You **must use transactions** since other users could be simultaneously updating the same like count. (That's the whole point of this worksheet anyways!)

Hint: You'll have to modify your Quote struct to capture the **quote ID** from the database when you retrieve the quotes into the app because you'll need this quote ID when updating the like count for it.



## **You're done! (for now)**

In the worksheet of the next lesson, you'll continue working on this project so keep it handy!

If you need any help with these exercises, remember to join the Students Only forum and get help anytime!

<https://facebook.com/groups/CodeWithChris>

To get the solutions, visit the lesson page.