



Final

Take home

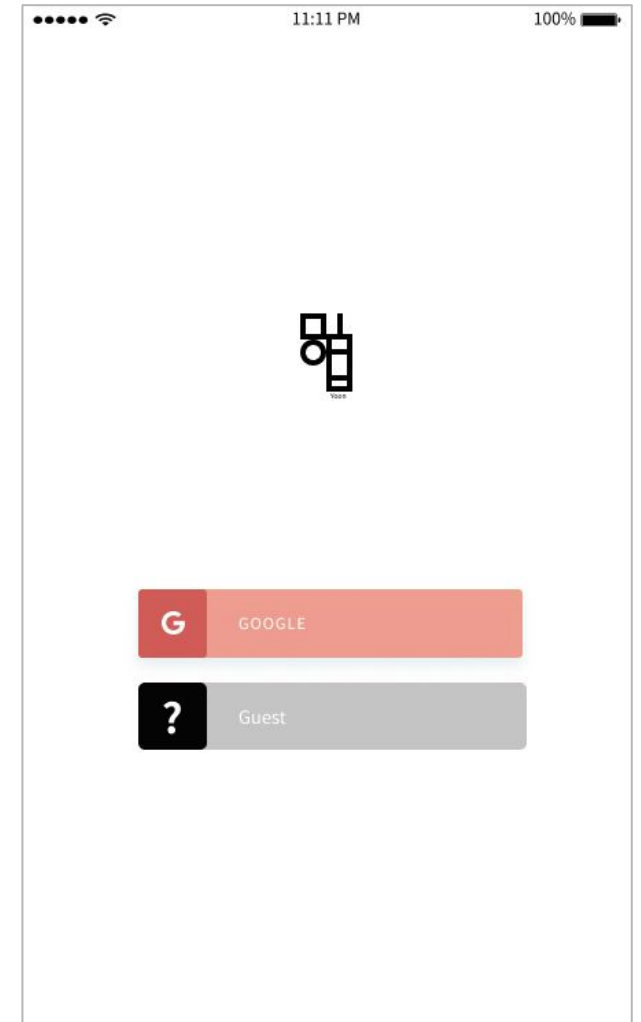
Due: 2022.11.12 23:50

Layout

- You can use MDC-102 in Codelabs
<https://codelabs.developers.google.com/codelabs/mdc-102-flutter/#0>
 - *All the data should be connected with firebase **(Do not hardcode)***
 - *There should be no screen overflow and error.*
 - *Please follow the submit guideline posted on hisnet(LMS).*

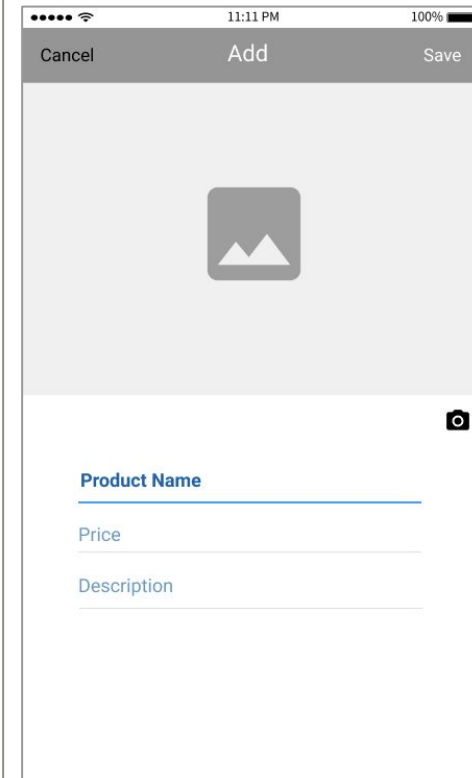
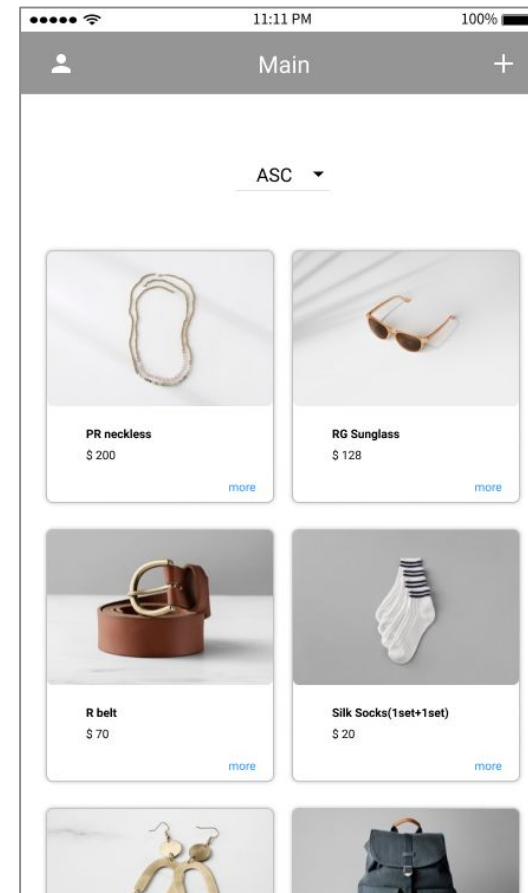
Login Page

- Use Firebase Authentication
 - *Use Google Sign-in*
 - *Use Anonymous Login(Guest)*



Item Page

- Card
 - Each card should have product Image, Name, Price (Do not use default images, put your images in your firebase storage)
 - When you click more button, go to **Detail Page**
- Add Product
 - When you click the Add icon on the Appbar, you can add a new product to your database
 - A default image should be shown before you select an image. When you click the Save button without selecting any image, the default image should be saved as the product's image.
(use this as a default image : <http://handong.edu/site/handong/res/img/logo.png>)
 - The image should be loaded by image-picker plugin. And the image should be uploaded in the **Storage**.
(Do not save only the String “image URL” in your “Database”.)
https://pub.dartlang.org/packages/image_picker
- When you click profile icon, go to the **Profile Page**

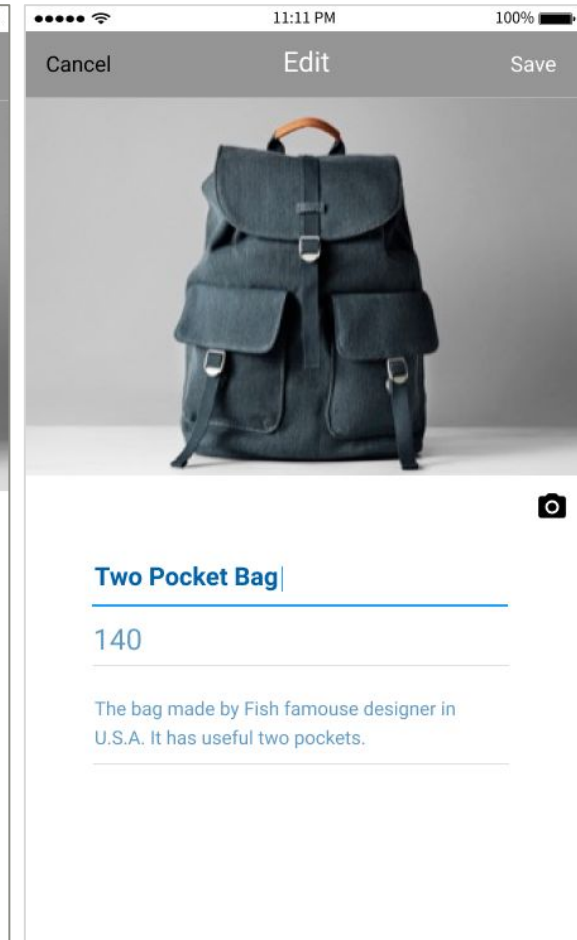
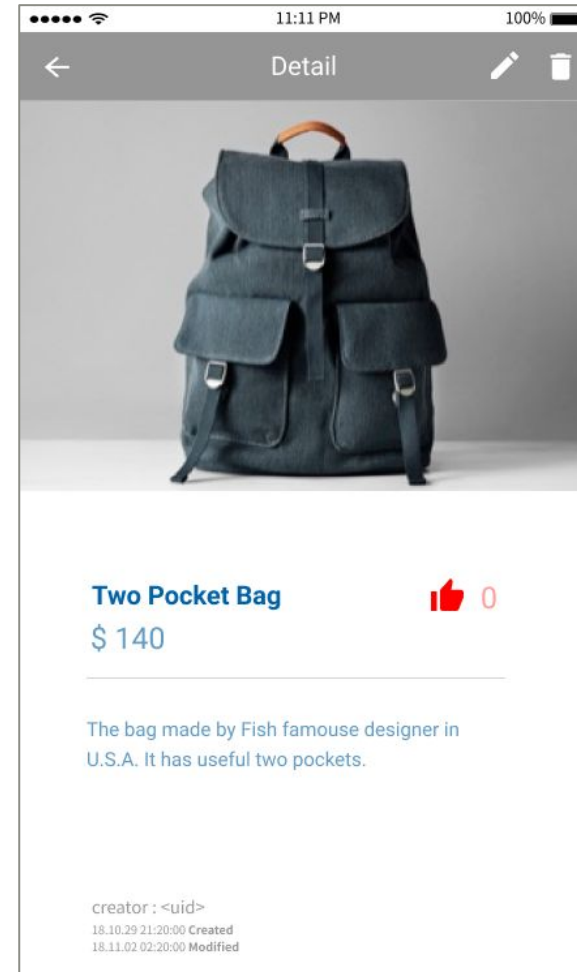


Detail Page

■ Detail Item

- Detail page should have **Product Image, Name, Price and Description**
- When you click the pencil icon(Icons.create), you can **modify(update)** the information of the item
- When you click trash icon(Icons.delete), you can **delete** the item
- If the UID is different from yours (if you are not the author of the post), it should not be Modified or Deleted (you can use Firestore Document Fields or Security Rules)
- Show UID & creation time & recent update time
(Use `FieldValue.serverTimestamp()`)

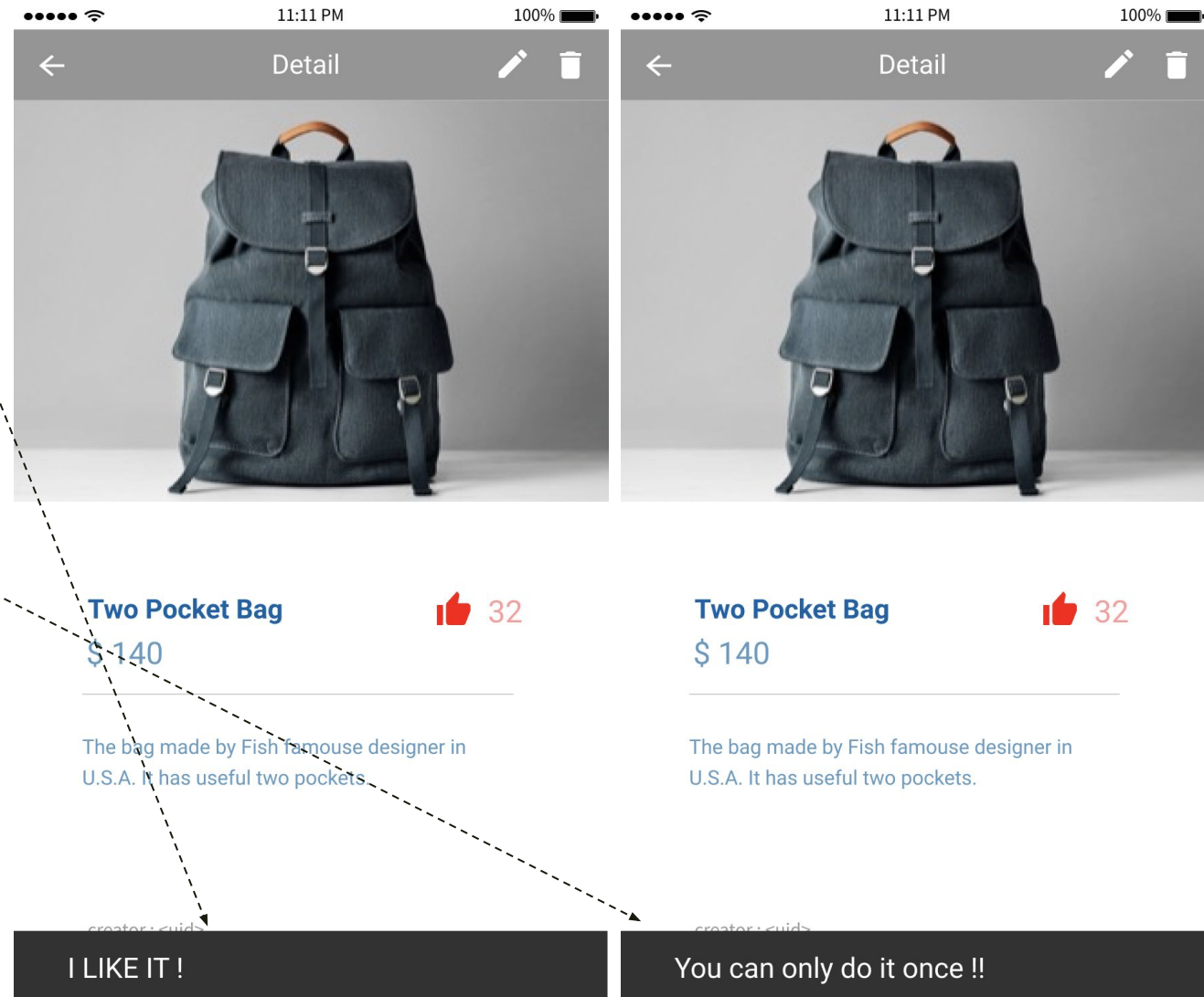
https://pub.dev/documentation/cloud_firestore/latest/cloud_firestore/FieldValue/serverTimestamp.html



Detail Page

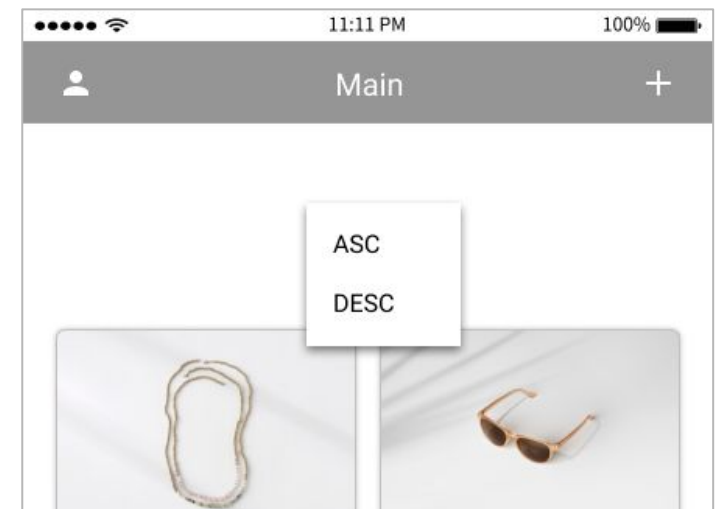
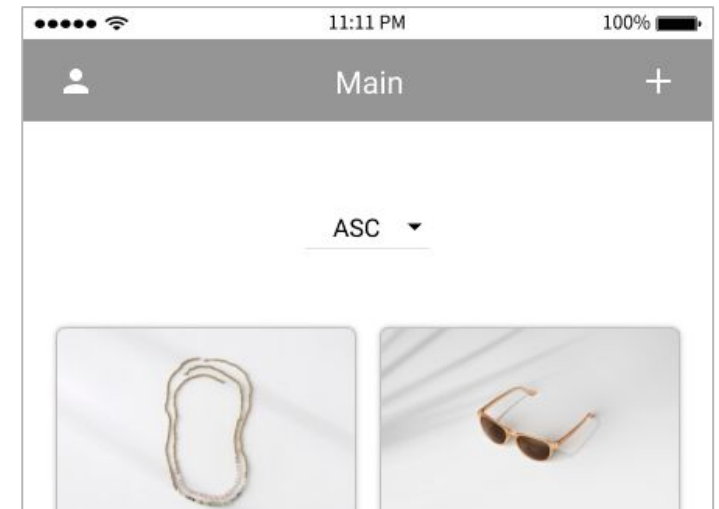
■ Detail Item

- *If the `IconButton(thumb_up)` is pressed for the first time, the number is added by 1*
- *Then, a `SnackBar` should appear.*
- *Even if you press the button more than once, the count does not increase anymore*
- *At that time, a `SnackBar` gives you a caution.*
- *The data should be preserved after logout or re-login.
(The `UID` of the user who clicked the thumb up button should be recorded.) Each item must be stored individually!*



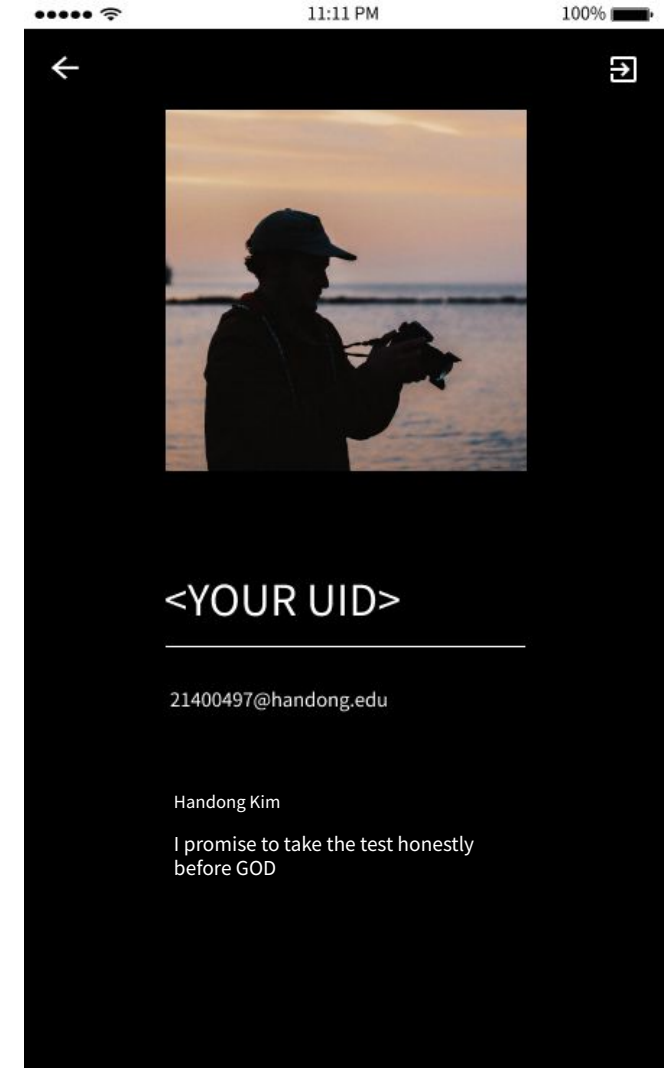
Query

- Query the Item
 - Create **Dropdown Selector** to query the items (Price Asc & Desc)
<https://api.flutter.dev/flutter/material/DropdownButton-class.html>
 - Query your items using **Prices (Asc & Desc order)**
 - Create **at least 6 products.**
(The price of all products must be set differently.)



Profile Page

- Display the Login Information
 - If you click the logout icon(Icons.exit_to_app) on the top right corner, it navigates to the **Login Page. It should be logged out.**
 - [from **Google sign in**]
Profile Photo, UID, Email : all the information should be loaded
 - [from **Anonymous sign in**]
image: default image,
(use this default image : <http://handong.edu/site/handong/res/img/logo.png>)
uid : anonymous uid,
email : String **"Anonymous"**
 - Display your **Name** as a signature using Text widget.
 - Display the Honor Code pledge **"I promise to take the test honestly before GOD ."** using Text widget.





Challenge

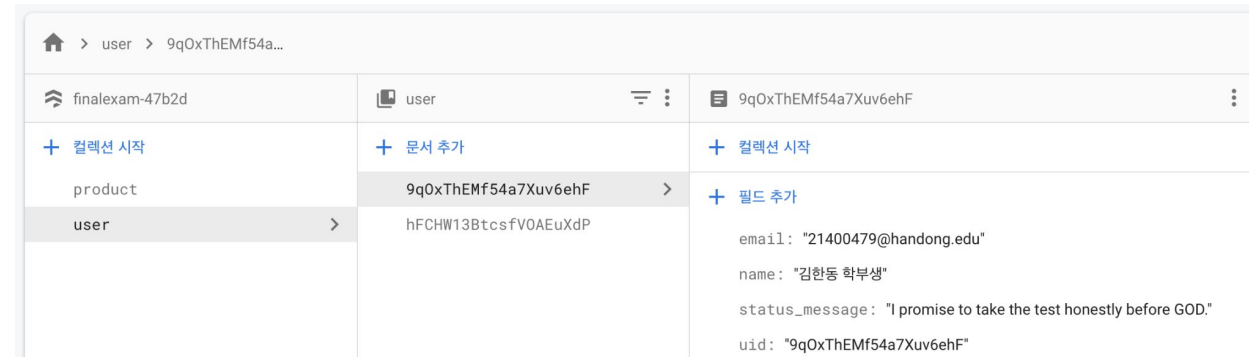
Problems from this point are challenge missions.

Profile Page

■ User Collection

- Add a 'user' collection to your firestore.
- When you Sign-in for the first time, a **document** named with **uid** has to be created.
- [Google sign in]
In the document, make **name**, **email**, **uid**, **status_message** fields and store name(displayName), email, uid from Google account information.
Use DisplayName
(<https://medium.com/flutterdevs/google-sign-in-with-flutter-8960580dec96>)
- [Anonymous sign in]
In the document, make **uid**, **status_message** fields and store uid from current user.
- For status_message field, store "I promise to take the test honestly before GOD." as default.

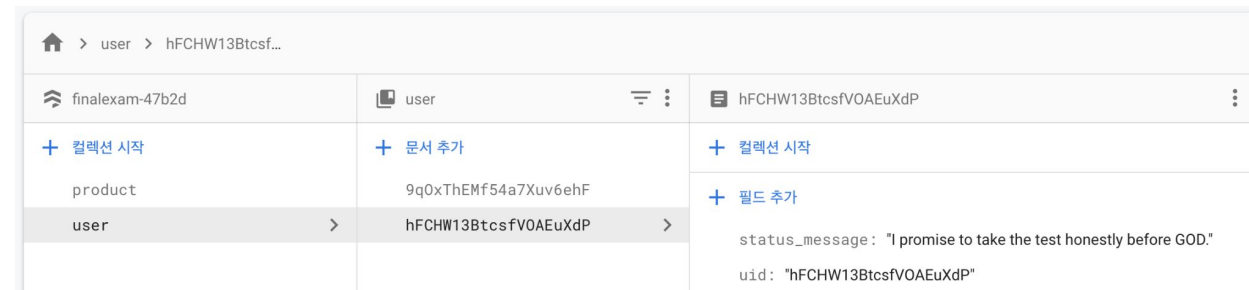
[Google sign in]



The screenshot shows the Firestore console with a document selected. The breadcrumb path is 'home > user > 9q0xThEMf54a...'. The document ID is '9q0xThEMf54a7Xuv6ehF'. The document contains the following fields:

Field	Value
email	"21400479@handong.edu"
name	"김한동 학생"
status_message	"I promise to take the test honestly before GOD."
uid	"9q0xThEMf54a7Xuv6ehF"

[Anonymous sign in]

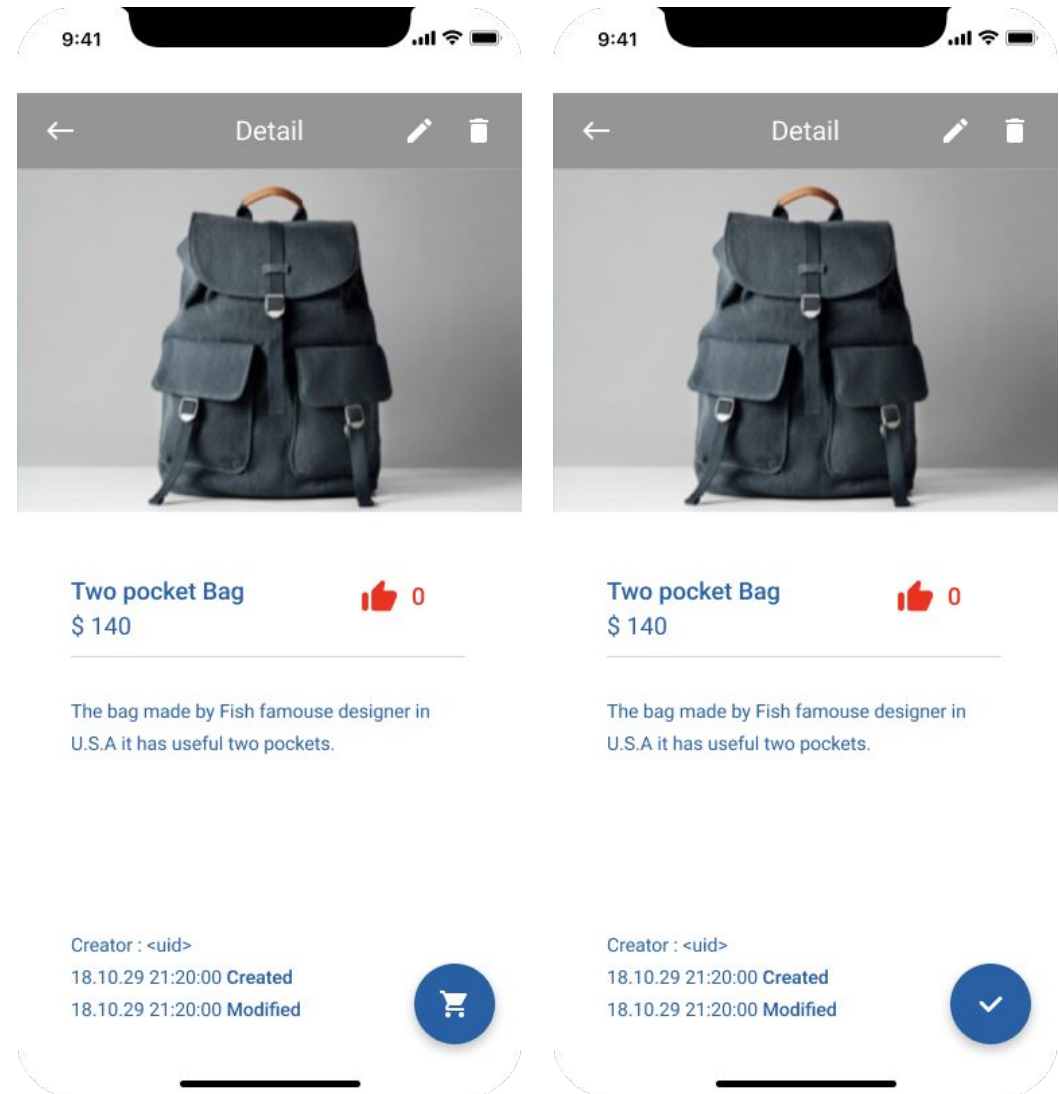


The screenshot shows the Firestore console with a document selected. The breadcrumb path is 'home > user > hFCHW13Btcsf...'. The document ID is 'hFCHW13BtcsfV0AEuXdP'. The document contains the following fields:

Field	Value
status_message	"I promise to take the test honestly before GOD."
uid	"hFCHW13BtcsfV0AEuXdP"

Detail Page

- Add item in the wishlist with ****Provider**** *state management*. You **must** use Provider for hyphens below.
 - *create a Floating Action Button*
 - before adding to wishlist : shopping_cart icon
 - after adding to wishlist : check icon
 - *when the floating action button is pressed the item is added to wishlist*
 - you should use Provider



Wishlist Page

- Add items in the wishlist with ****Provider**** *state management*. You **must** use Provider for hyphens below.
 - When the user adds an item in detail page, the item's card displays a *checkbox icon* with **Stack** widget.
 - Add cart icon next to the add icon in the **AppBar**. When it is tapped, it navigates to **Wishlist** page.
 - In the Wishlist page, show the items as **Listview**.
 - When trash icon is pressed, the item gets **deleted** from the wishlist.

