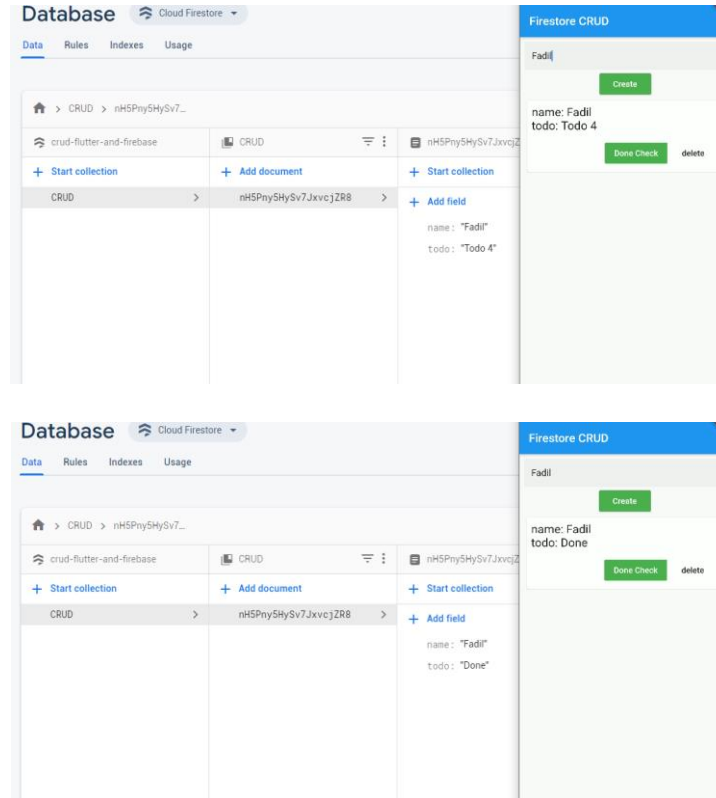
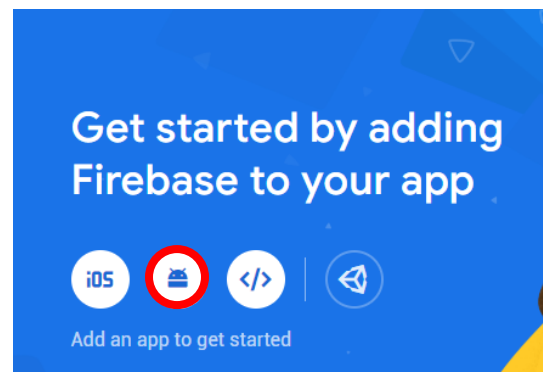


Membuat Project To-Do List CRUD Dengan Flutter dan Firestore



A. Membuat Project di Firebase

1. Buka halaman <https://console.firebase.google.com/> dan login menggunakan akun Google Anda. Buatlah project baru dan isi form yang ditampilkan mengenai project Anda
2. Tekan tombol Android
3. Isi form berikut dengan data dari project **Flutter** Anda



b. Home

```
1 import 'package:flutter/material.dart';
2 import 'package:cloud_firestore/cloud_firestore.dart';
3 import 'dart:math';
4
5 class FirestoreCRUDPage extends StatefulWidget {
6   @override
7   _FirestoreCRUDPageState createState() => _FirestoreCRUDPageState();
8 }
9
10 class _FirestoreCRUDPageState extends State<FirestoreCRUDPage> {
11   String id;
12
13   final _formKey = GlobalKey<FormState>();
14   String name;
15
16   Card buildItem(DocumentSnapshot doc) {
17     return Card(
18       child: Padding(
19         padding: const EdgeInsets.all(8.0),
20         child: Column(
21           crossAxisAlignment: CrossAxisAlignment.start,
22           children: <Widget>[
23             Text(
24               'name: ${doc.data['name']}',
25               style: TextStyle(fontSize: 20.0),
26             ), // Text
27             Text(
28               'todo: ${doc.data['todo']}',
29               style: TextStyle(fontSize: 20.0),
30             ), // Text
31             SizedBox(
32               height: 12,
33             ), // SizedBox
34             Row(
35               mainAxisAlignment: MainAxisAlignment.end,
36               children: <Widget>[
37                 FlatButton(
38                   onPressed: () => updateData(doc),
39                   child: Text(
40                     'Done Check',
41                     style: TextStyle(color: Colors.white),
42                   ), // Text
43                   color: Colors.green,
44                 ), // FlatButton
```

```
45             FlatButton(
46               onPressed: () => deleteData(doc),
47               child: Text('delete'),
48               color: Colors.white12,
49             ), // FlatButton
50           ], // <Widget>[]
51         ), // Row
52       ), // <Widget>[]
53     ), // Column
54   ), // Padding
55 ); // Card
56 }
57
58 @override
59 Widget build(BuildContext context) {
60   return Scaffold(
61     appBar: AppBar(
62       title: Text("Firestore CRUD"),
63     ), // AppBar
64     body: ListView(
65       padding: EdgeInsets.all(8),
66       children: <Widget>[
67         Form(
68           key: _formKey,
69           child: buildTextFormField(),
70         ), // Form
71         Center(
72           child: RaisedButton(
73             onPressed: createData,
74             child: Text(
75               'Create',
76               style: TextStyle(color: Colors.white),
77             ), // Text
78             color: Colors.green,
79           ), // RaisedButton
80         ), // Center
81         StreamBuilder<QuerySnapshot>(
82           stream: Firestore.instance.collection("CRUD").snapshots(),
83           builder: (context, snapshot) {
84             if (snapshot.hasData) {
85               // (snapshot.docs) {
86                 // doc: DocumentSnapshot {
87                   // data: Map {
88                     // 'name': String,
89                     // 'todo': String,
90                   // }
91                 // id: String,
92               // }
93             }
94           }
95         ), // StreamBuilder
96       ], // <Widget>[]
97     ), // Scaffold
98   ); // Widget
99 }
```

```

80     ), // Center
81     StreamBuilder<QuerySnapshot>{
82       stream: Firestore.instance.collection('CRUD').snapshots(),
83       builder: (context, snapshot) {
84         if (snapshot.hasData) {
85           return Column(
86             children: snapshot.data.documents
87               .map((doc) => buildItem(doc))
88               .toList()); // Column
89         } else {
90           return SizedBox();
91         }
92       },
93     ) // StreamBuilder
94   ], // <Widget>[]
95 ), // ListView
96 ); // Scaffold
97 }
98
99 TextFormField buildTextFormField() {
100   return TextFormField(
101     decoration: InputDecoration(
102       border: InputBorder.none,
103       hintText: 'Name',
104       filled: true,
105     ), // InputDecoration
106     validator: (value) => value.isEmpty ? 'Masukkan Nama' : null,
107     onSaved: (value) => name = value,
108   ); // TextFormField
109 }
110
111 void createData() async {
112   if (_formKey.currentState.validate()) {
113     _formKey.currentState.save();
114     DocumentReference ref = await Firestore.instance
115       .collection('CRUD')
116       .add({'name': '$name', 'todo': randomTodo()});
117     setState(() => id = ref.documentID);
118     print(ref.documentID);
119   }
120 }
121
122 updateData(DocumentSnapshot doc) async {
123   await Firestore.instance

```

```

119   }
120 }
121
122 updateData(DocumentSnapshot doc) async {
123   await Firestore.instance
124     .collection('CRUD')
125     .document(doc.documentID)
126     .updateData({'todo': 'Done'});
127 }
128
129 deleteData(DocumentSnapshot doc) async {
130   await Firestore.instance
131     .collection('CRUD')
132     .document(doc.documentID)
133     .delete();
134   setState(() {
135     id = null;
136   });
137 }
138
139 String randomTodo() {
140   final randomNumber = Random().nextInt(4);
141   String todo;
142   switch (randomNumber) {
143     case 1:
144       todo = 'Todo 1';
145       break;
146     case 2:
147       todo = 'Todo 2';
148       break;
149     case 3:
150       todo = 'Todo 3';
151       break;
152     default:
153       todo = 'Todo 4';
154       break;
155   }
156   return todo;
157 }
158 }
159

```

