Authentication

User Signup &
Auth Status Management

What's In This Section?

How Authentication Works in Flutter Apps

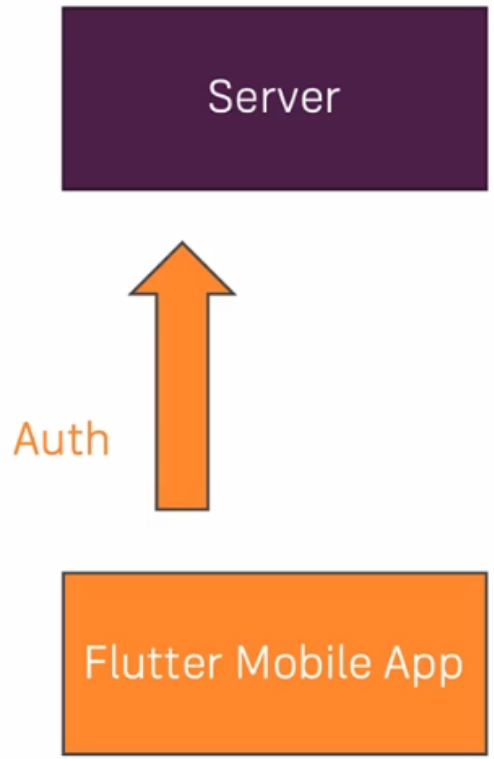
Signup & Login

Managing User Sessions

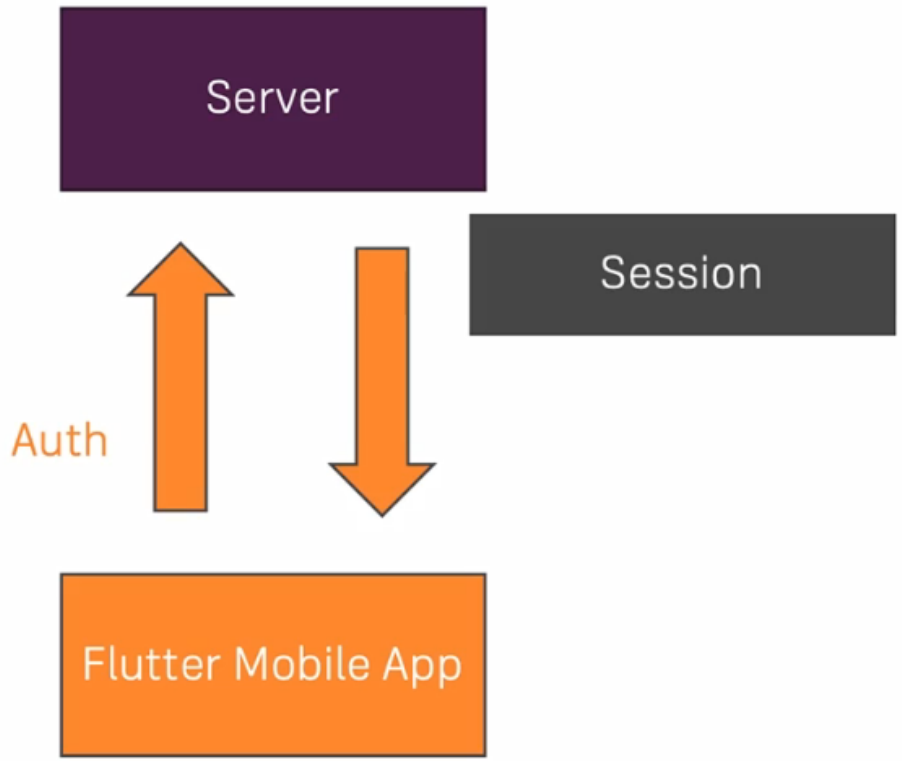
HOW AUTHENTICATION WORKS

How Authentication Works

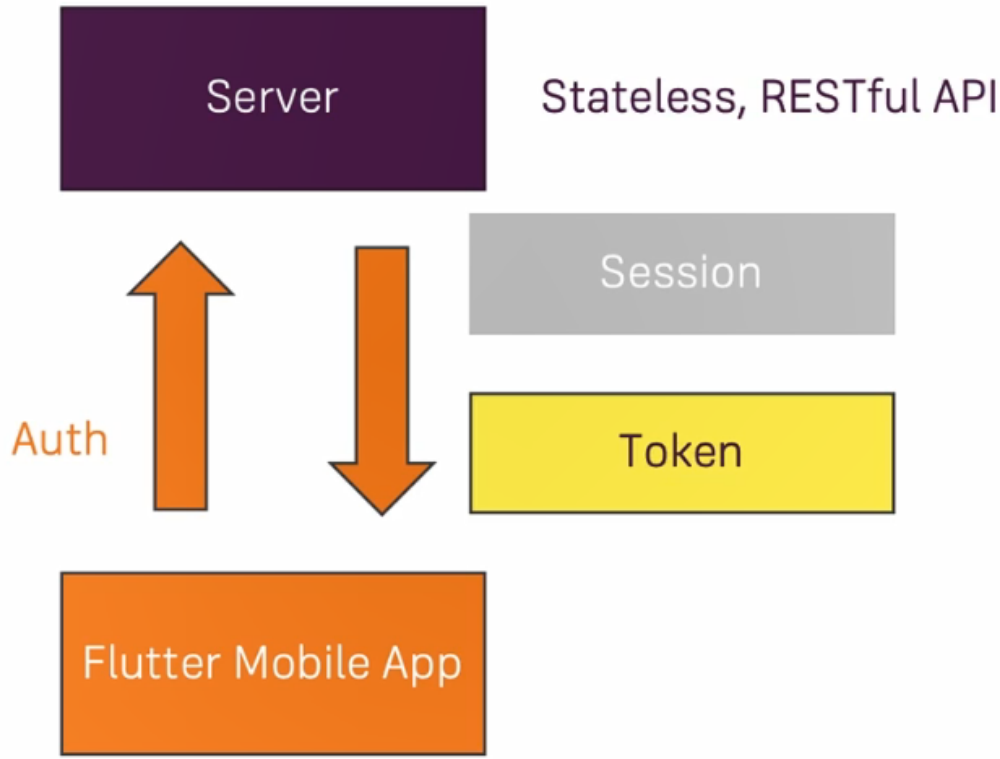
How Authentication Works



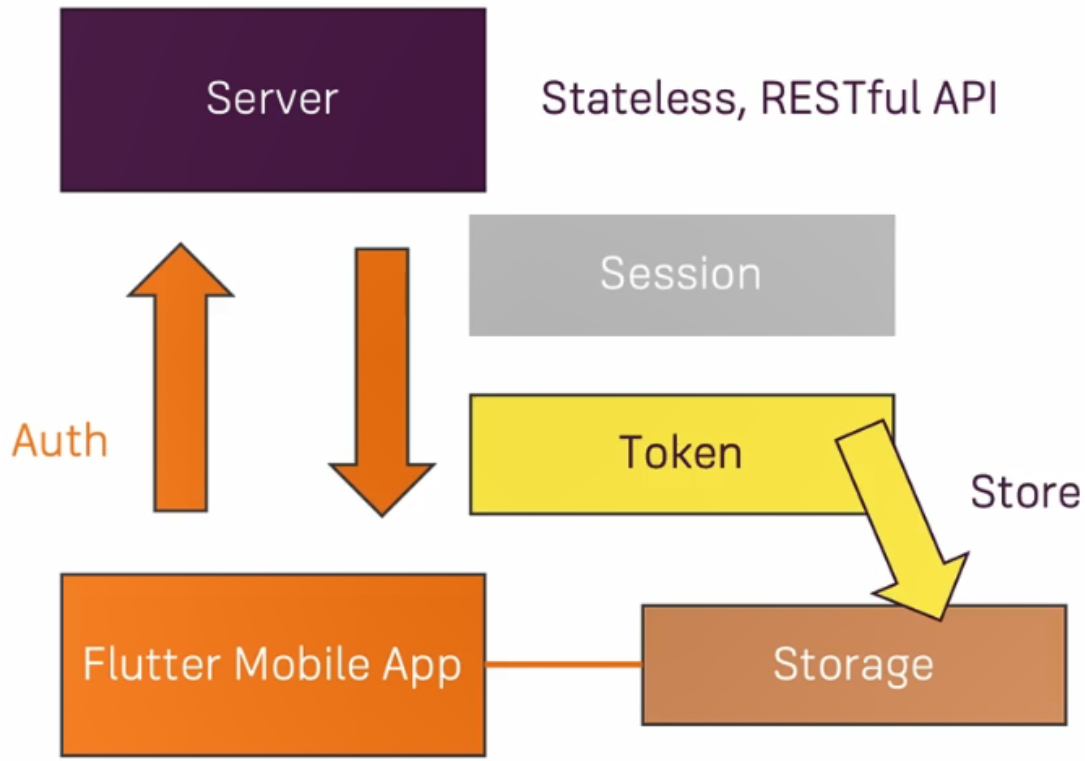
How Authentication Works



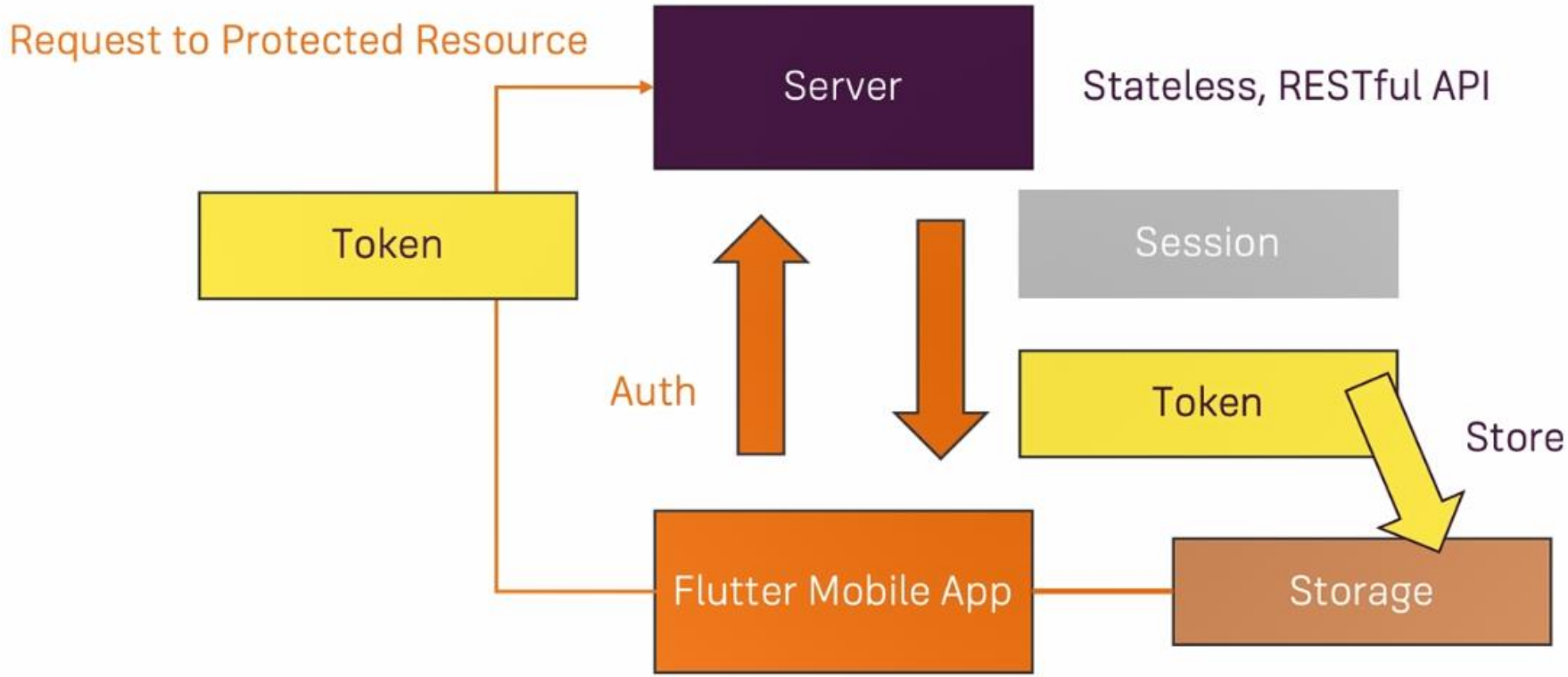
How Authentication Works



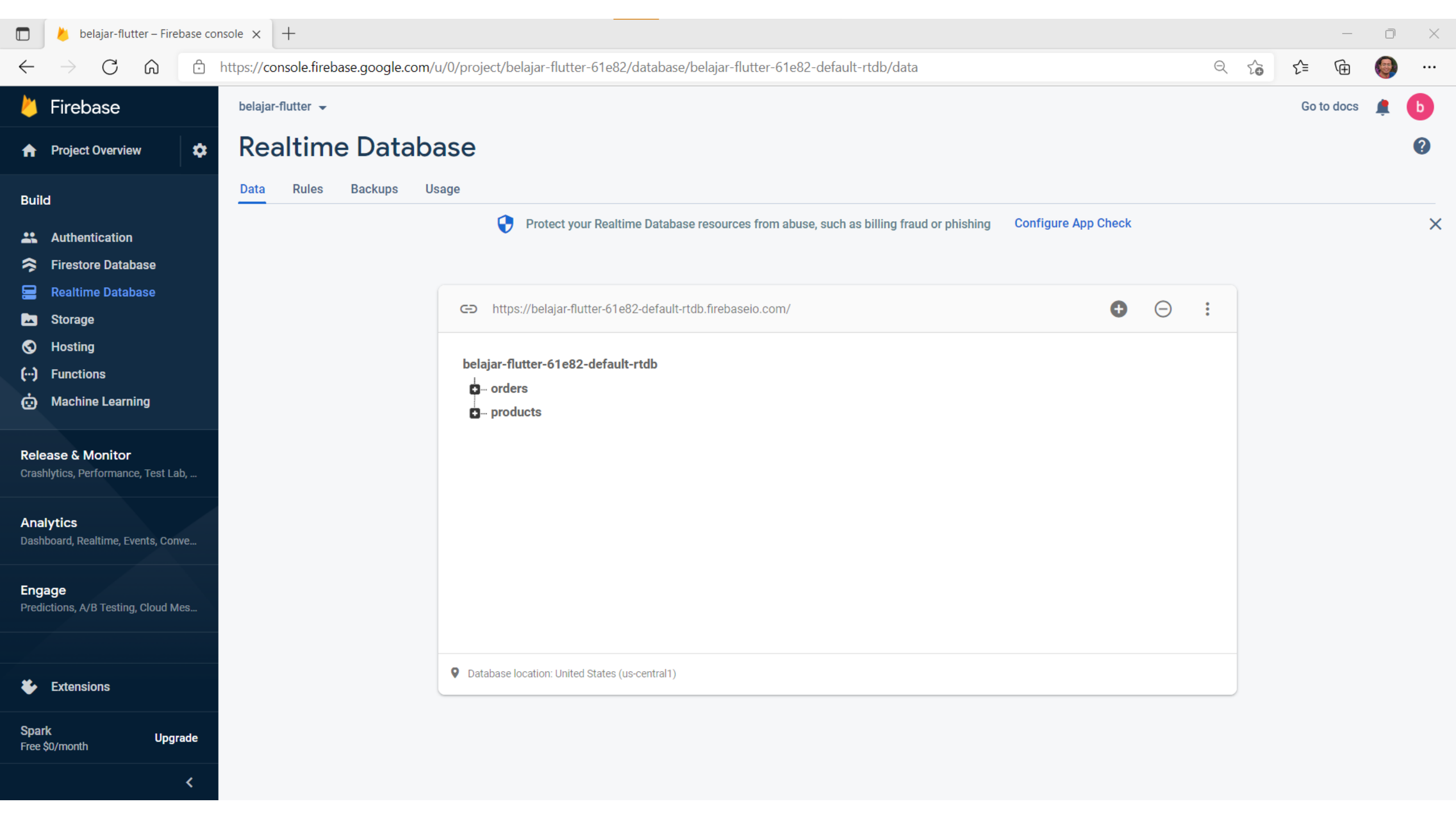
How Authentication Works



How Authentication Works



PREPARING THE BACKEND


belajar-flutter – Firebase console
https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/database/belajar-flutter-61e82-default-rtdb/data
Firebase
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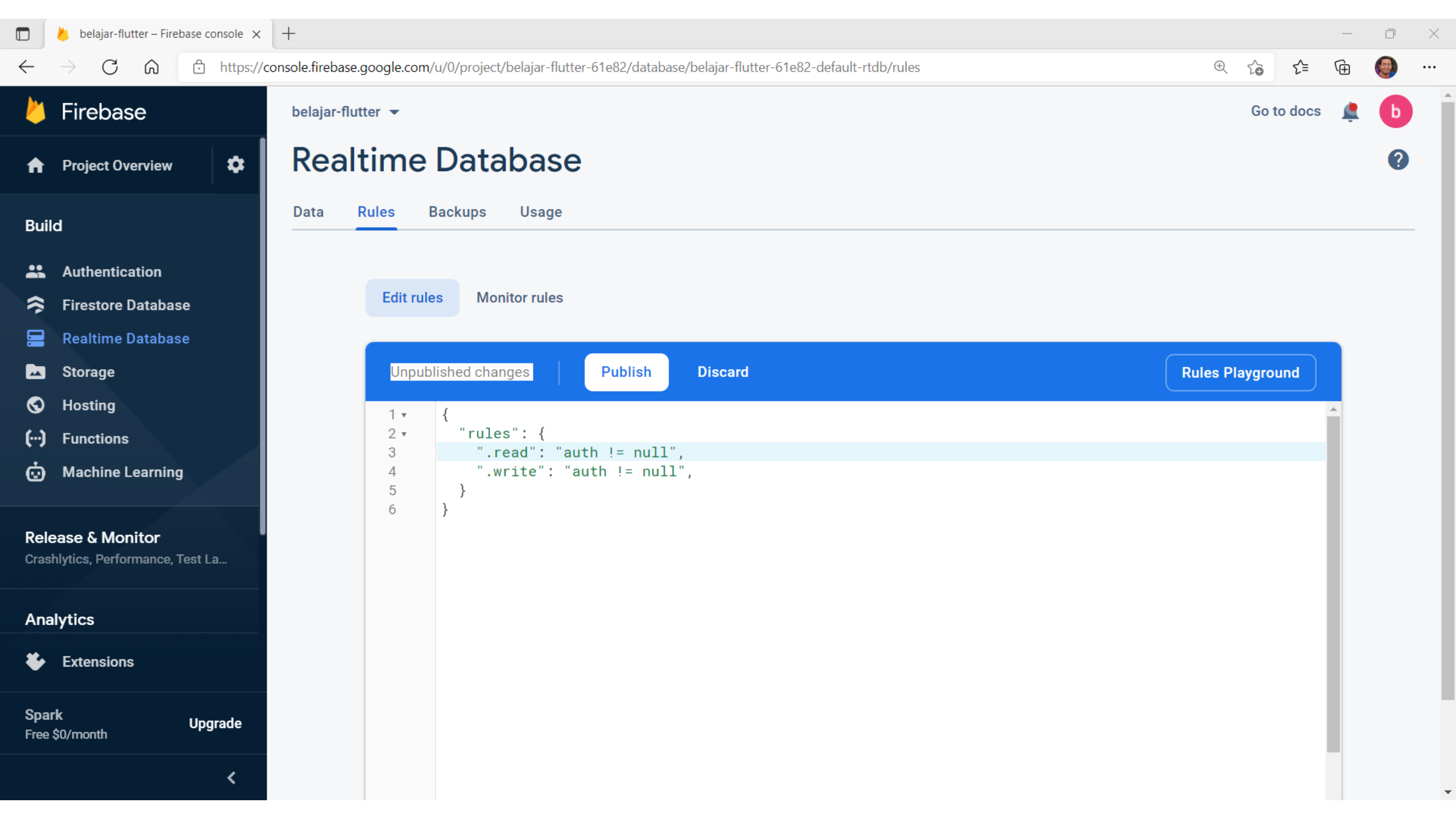
Protect your Realtime Database resources from abuse, such as billing fraud or phishing
Configure App Check
https://belajar-flutter-61e82-default-rtdb.firebaseio.com/
belajar-flutter-61e82-default-rtdb
orders
products
Database location: United States (us-central1)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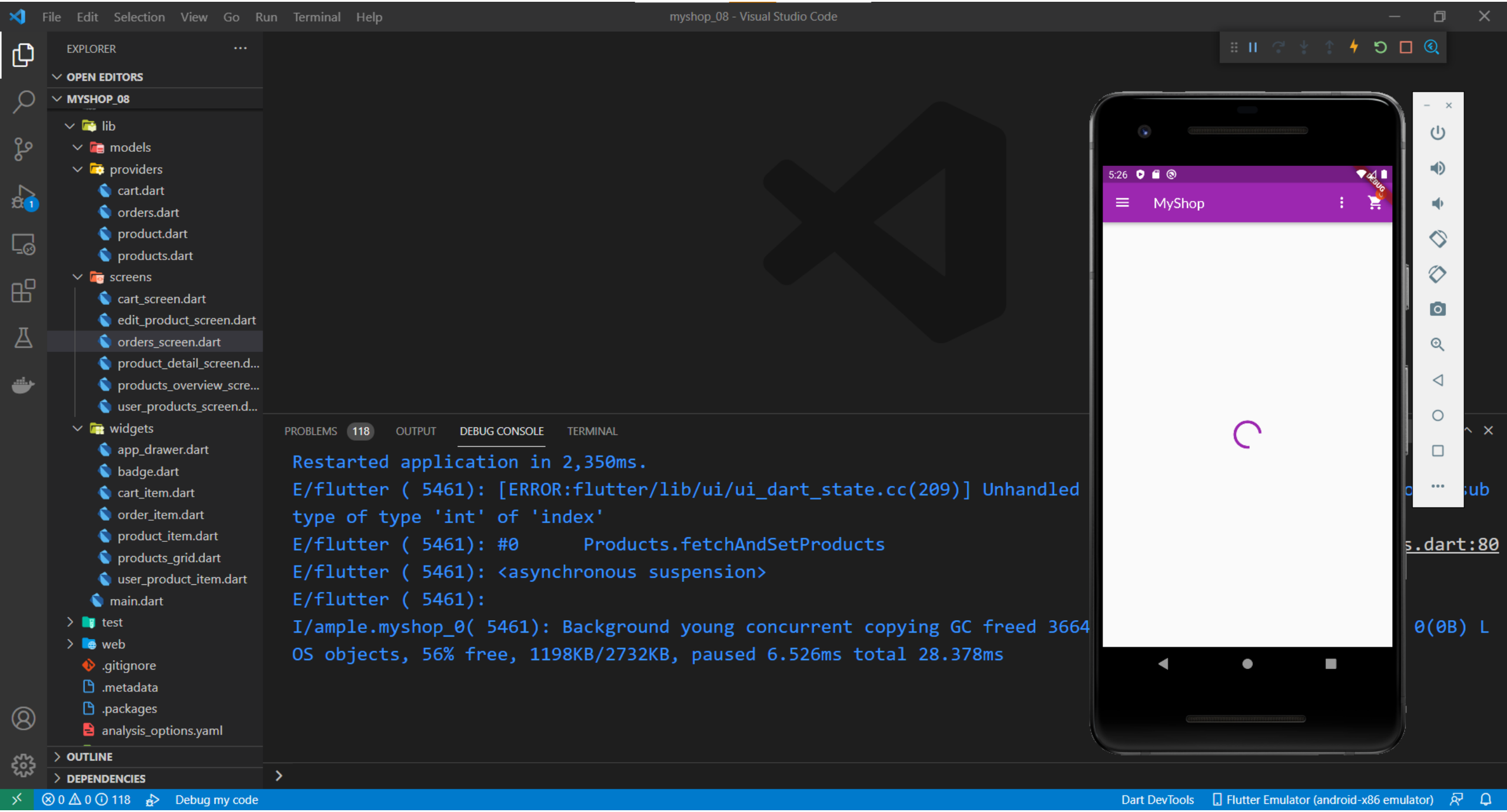
Edit rules
Monitor rules
Unpublished changes
Publish
Discard
Rules Playground
{
"rules": {
".read": "auth != null",
".write": "auth != null",
}
}


File Edit Selection View Go Run Terminal Help
myshop_08 - Visual Studio Code
EXPLORER
OPEN EDITORS
MYSHOP_08
lib
models
providers
cart.dart
orders.dart
product.dart
products.dart
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cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
badge.dart
cart_item.dart
order_item.dart
product_item.dart
products_grid.dart
user_product_item.dart
main.dart
test
web
.gitignore
.metadata
.packages
analysis_options.yaml
OUTLINE
DEPENDENCIES
PROBLEMS 118
OUTPUT
DEBUG CONSOLE
TERMINAL
Restarted application in 2,350ms.
E/flutter (5461): [ERROR:flutter/lib/ui/ui_dart_state.cc(209)] Unhandled
type of type 'int' of 'index'
E/flutter (5461): #0 Products.fetchAndSetProducts
E/flutter (5461): <asynchronous suspension>
E/flutter (5461):
I/ample.myshop_0(5461): Background young concurrent copying GC freed 3664
OS objects, 56% free, 1198KB/2732KB, paused 6.526ms total 28.378ms
5:26
MyShop
DEBUG
s.dart:80
0(0B) L
0 0 118
Debug my code
Dart DevTools
Flutter Emulator (android-x86 emulator)

belajar-flutter – Authentication

https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/authentication

Firebase

belajar-flutter

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Project Overview

Build

- Authentication
- Firestore Database
- Realtime Database
- Storage
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- Functions
- Machine Learning

Release & Monitor
Crashlytics, Performance, Test La...

Analytics
Dashboard, Realtime, Events, Conv...

Engage

Extensions

Spark
Free $0/month

Upgrade

Authentication

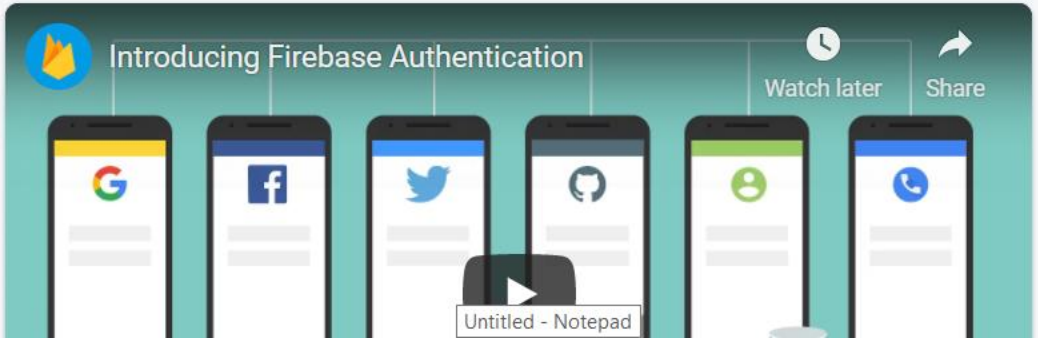
Authenticate and manage users from a variety of providers without server-side code

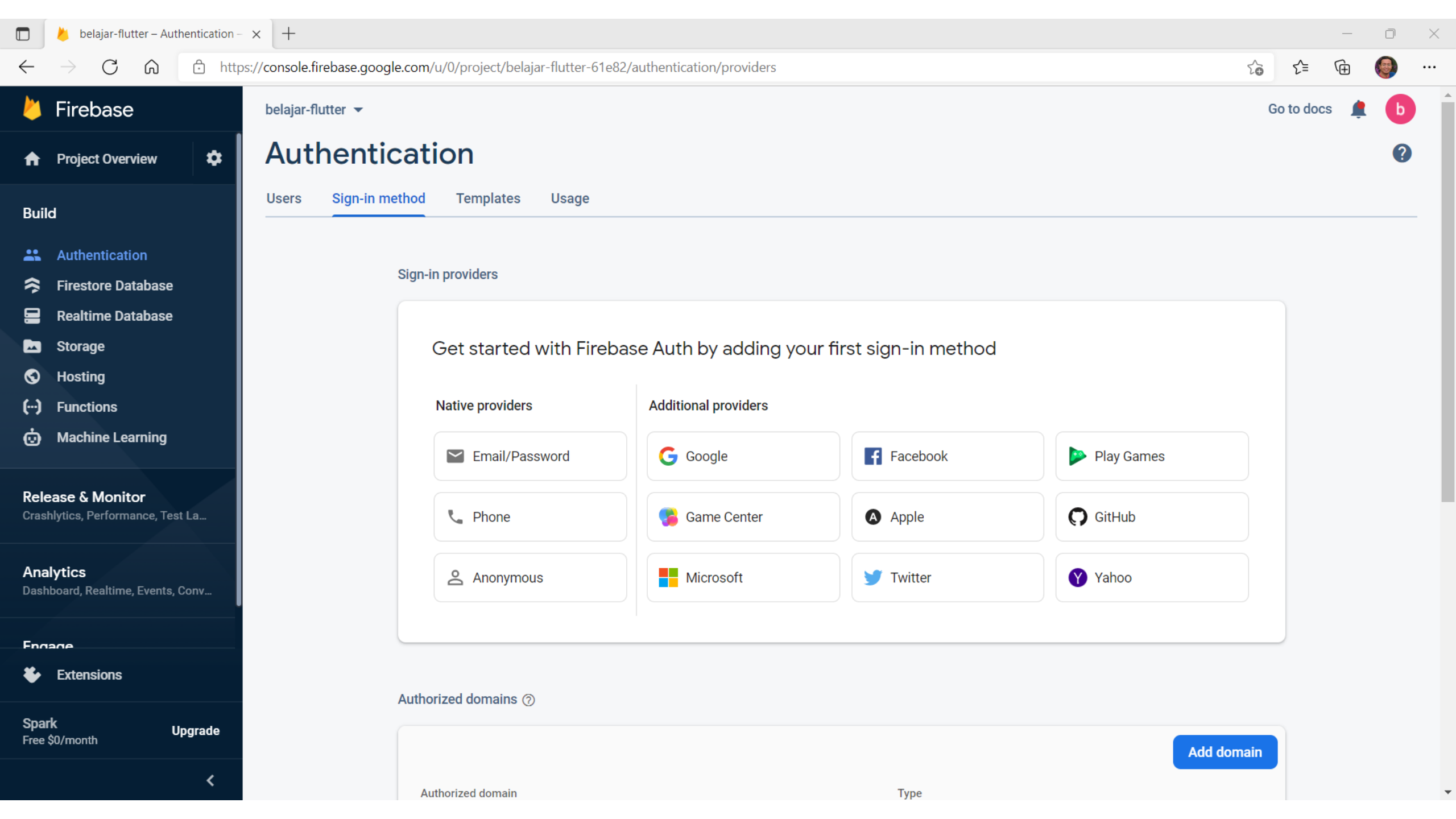
Get started

Learn more

How do I get started?
View the docs

How does Authentication work?
View the docs

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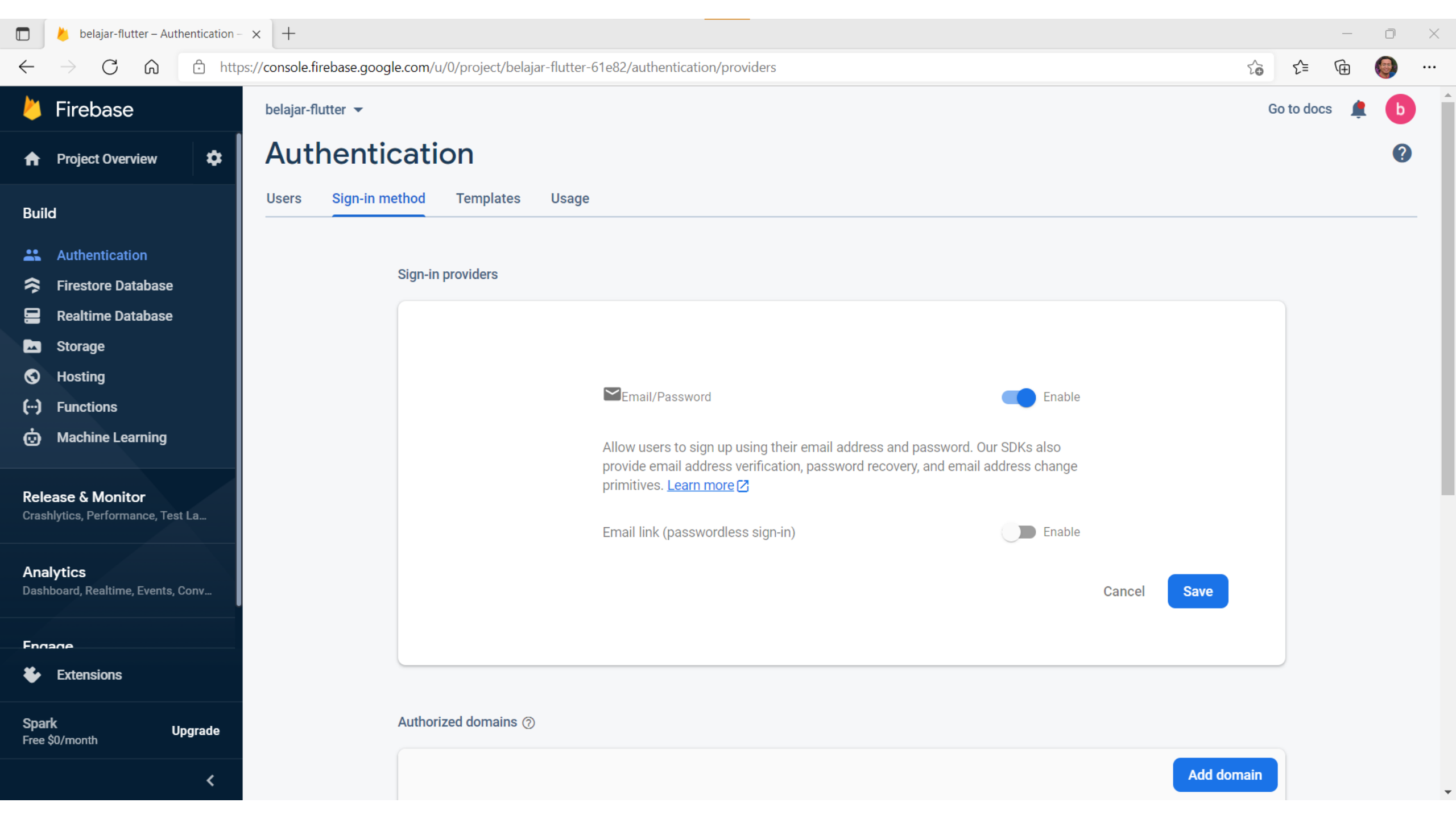
Additional providers
Email/Password
Google
Facebook
Play Games
Phone
Game Center
Apple
GitHub
Anonymous
Microsoft
Twitter
Yahoo
Authorized domains
Add domain
Authorized domain
Type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https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/authentication/providers
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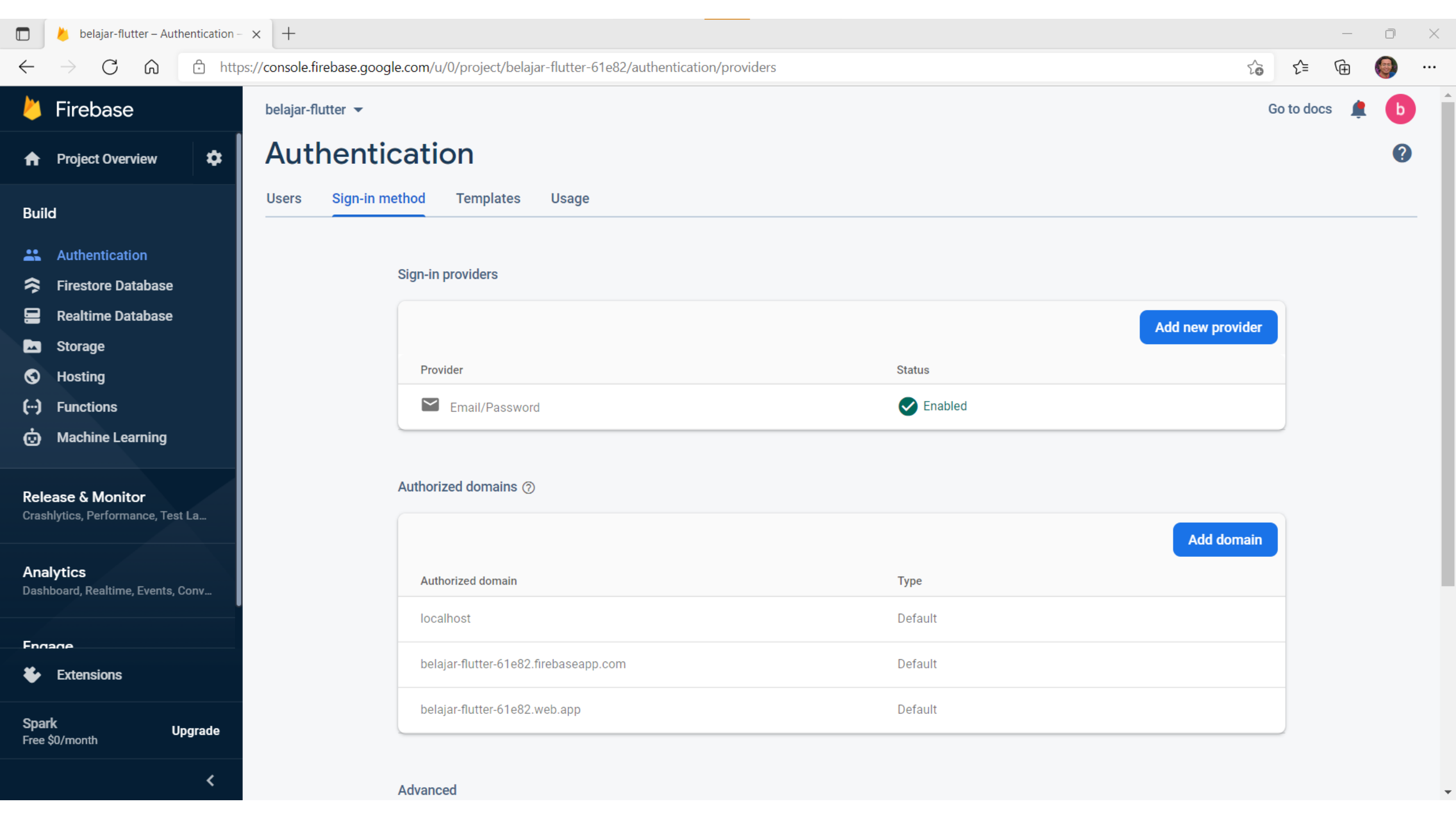
Enable
Allow users to sign up using their email address and password. Our SDKs also provide email address verification, password recovery, and email address change primitives. Learn more
Email link (passwordless sign-in)
Enable
Cancel
Save
Authorized domains
Add domain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https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/authentication/providers
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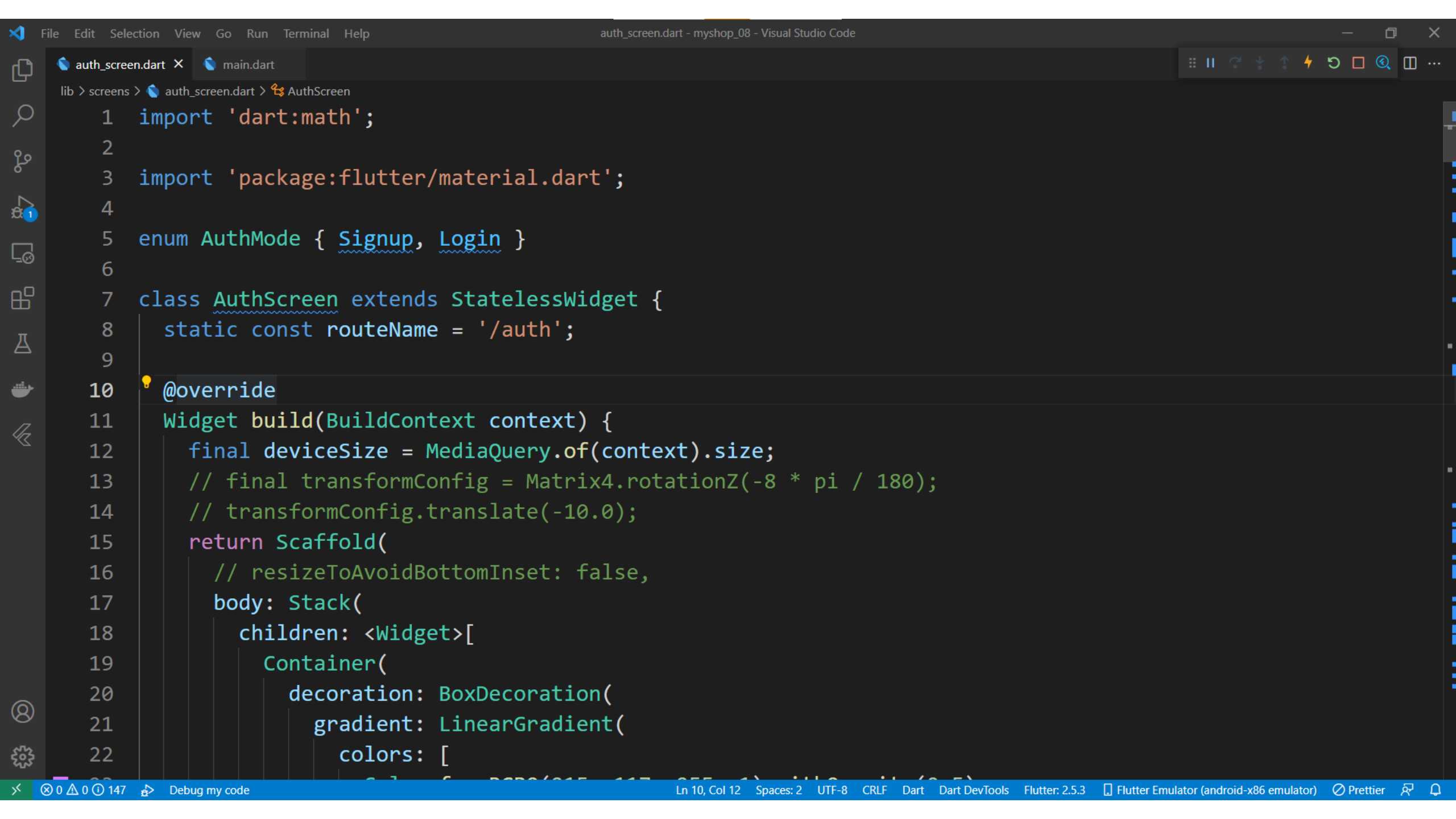
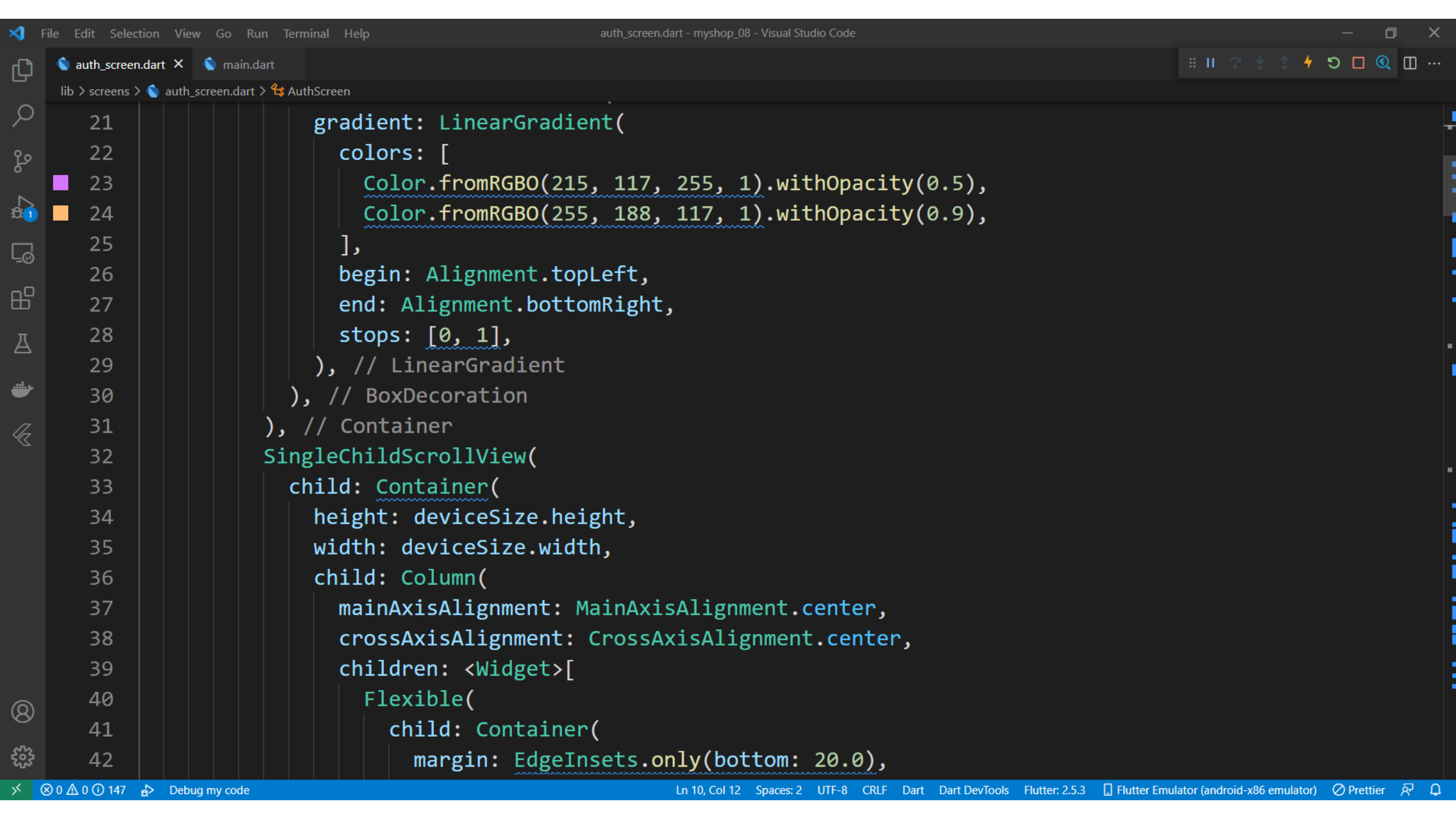
Templates
Usage
Sign-in providers
Add new provider
Provider
Status
Email/Password
Enabled
Authorized domains
Add domain
Authorized domain
Type
localhost
Default
belajar-flutter-61e82.firebaseapp.com
Default
belajar-flutter-61e82.web.app
Default
Advanced

ADDING THE AUTH SCREEN


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
1 import 'dart:math';
2
3 import 'package:flutter/material.dart';
4
5 enum AuthMode { Signup, Login }
6
7 class AuthScreen extends StatelessWidget {
8 static const routeName = '/auth';
9
10 @override
11 Widget build(BuildContext context) {
12 final deviceSize = MediaQuery.of(context).size;
13 // final transformConfig = Matrix4.rotationZ(-8 * pi / 180);
14 // transformConfig.translate(-10.0);
15 return Scaffold(
16 // resizeToAvoidBottomInset: false,
17 body: Stack(
18 children: <Widget>[
19 Container(
20 decoration: BoxDecoration(
21 gradient: LinearGradient(
22 colors: [
Debug my code
Ln 10, Col 12
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
gradient: LinearGradient(
colors: [
Color.fromRGBO(215, 117, 255, 1).withOpacity(0.5),
Color.fromRGBO(255, 188, 117, 1).withOpacity(0.9),
],
begin: Alignment.topLeft,
end: Alignment.bottomRight,
stops: [0, 1],
), // LinearGradient
), // BoxDecoration
), // Container
SingleChildScrollView(
child: Container(
height: deviceSize.height,
width: deviceSize.width,
child: Column(
mainAxisAlignment: MainAxisAlignment.center,
crossAxisAlignment: CrossAxisAlignment.center,
children: <Widget>[
Flexible(
child: Container(
margin: EdgeInsets.only(bottom: 20.0),
Debug my code
Ln 10, Col 12
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
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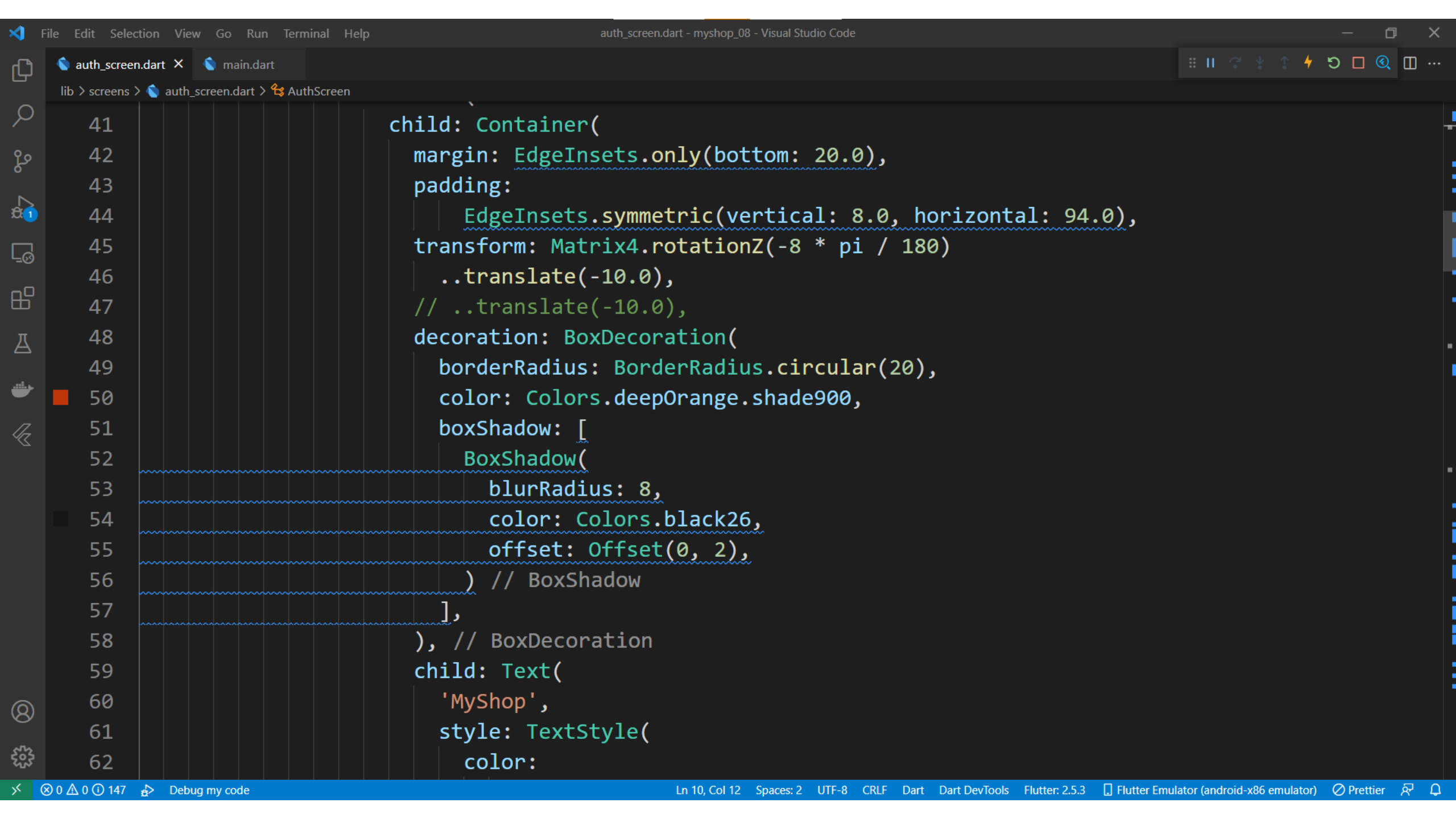
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
child: Container(
margin: EdgeInsets.only(bottom: 20.0),
padding:
EdgeInsets.symmetric(vertical: 8.0, horizontal: 94.0),
transform: Matrix4.rotationZ(-8 * pi / 180)
..translate(-10.0),
// ..translate(-10.0),
decoration: BoxDecoration(
borderRadius: BorderRadius.circular(20),
color: Colors.deepOrange.shade900,
boxShadow: [
BoxShadow(
blurRadius: 8,
color: Colors.black26,
offset: Offset(0, 2),
) // BoxShadow
],
), // BoxDecoration
child: Text(
'MyShop',
style: TextStyle(
color:
Debug my code
Ln 10, Col 12
Spaces: 2
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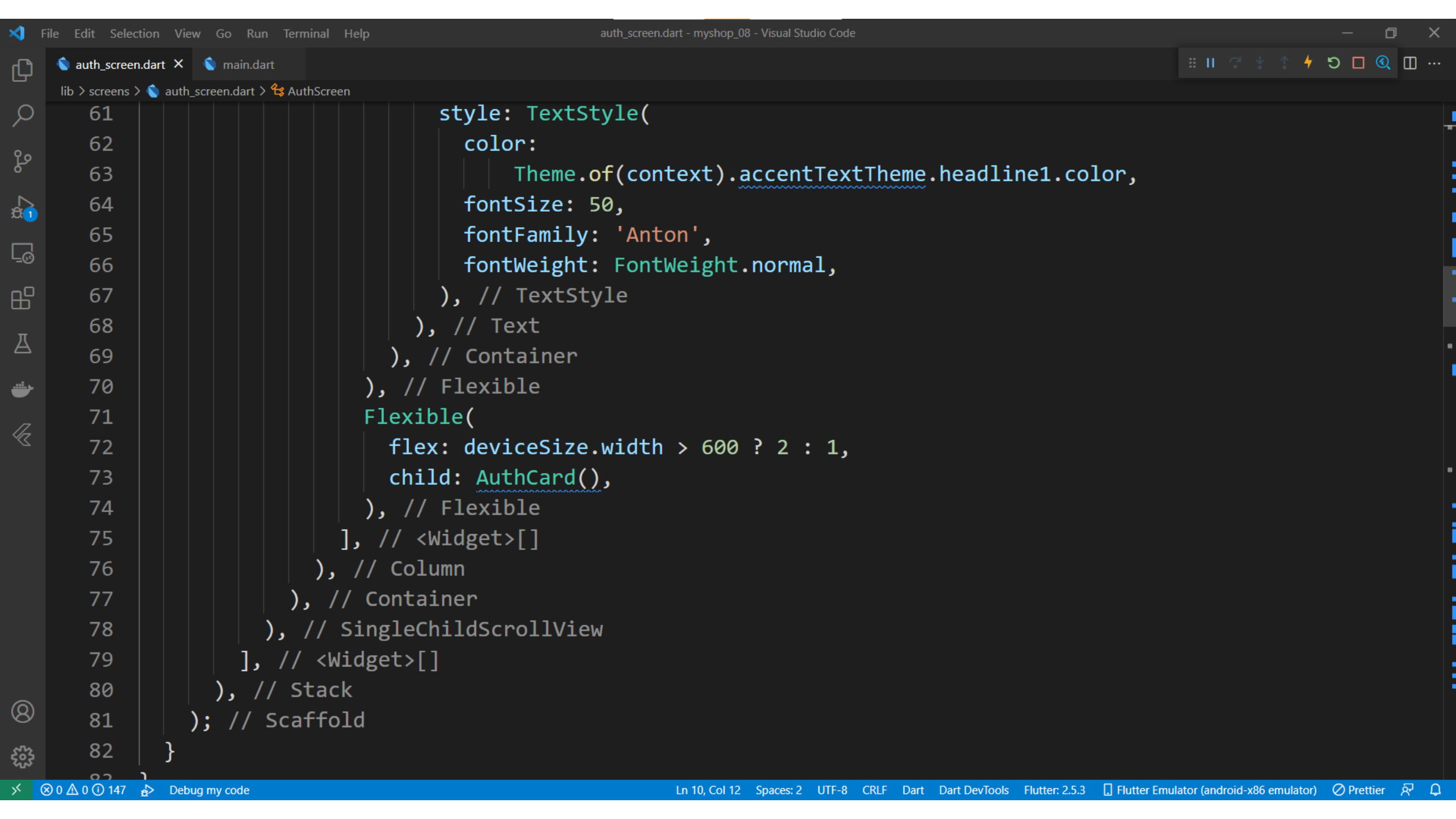
File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
61 style: TextStyle(
62 color:
63 Theme.of(context).accentTextTheme.headline1.color,
64 fontSize: 50,
65 fontFamily: 'Anton',
66 fontWeight: FontWeight.normal,
67), // TextStyle
68), // Text
69), // Container
70), // Flexible
71 Flexible(
72 flex: deviceSize.width > 600 ? 2 : 1,
73 child: AuthCard(),
74), // Flexible
75], // <Widget>[]
76), // Column
77), // Container
78), // SingleChildScrollView
79], // <Widget>[]
80), // Stack
81); // Scaffold
82 }
0 0 147
Debug my code
Ln 10, Col 12
Spaces: 2
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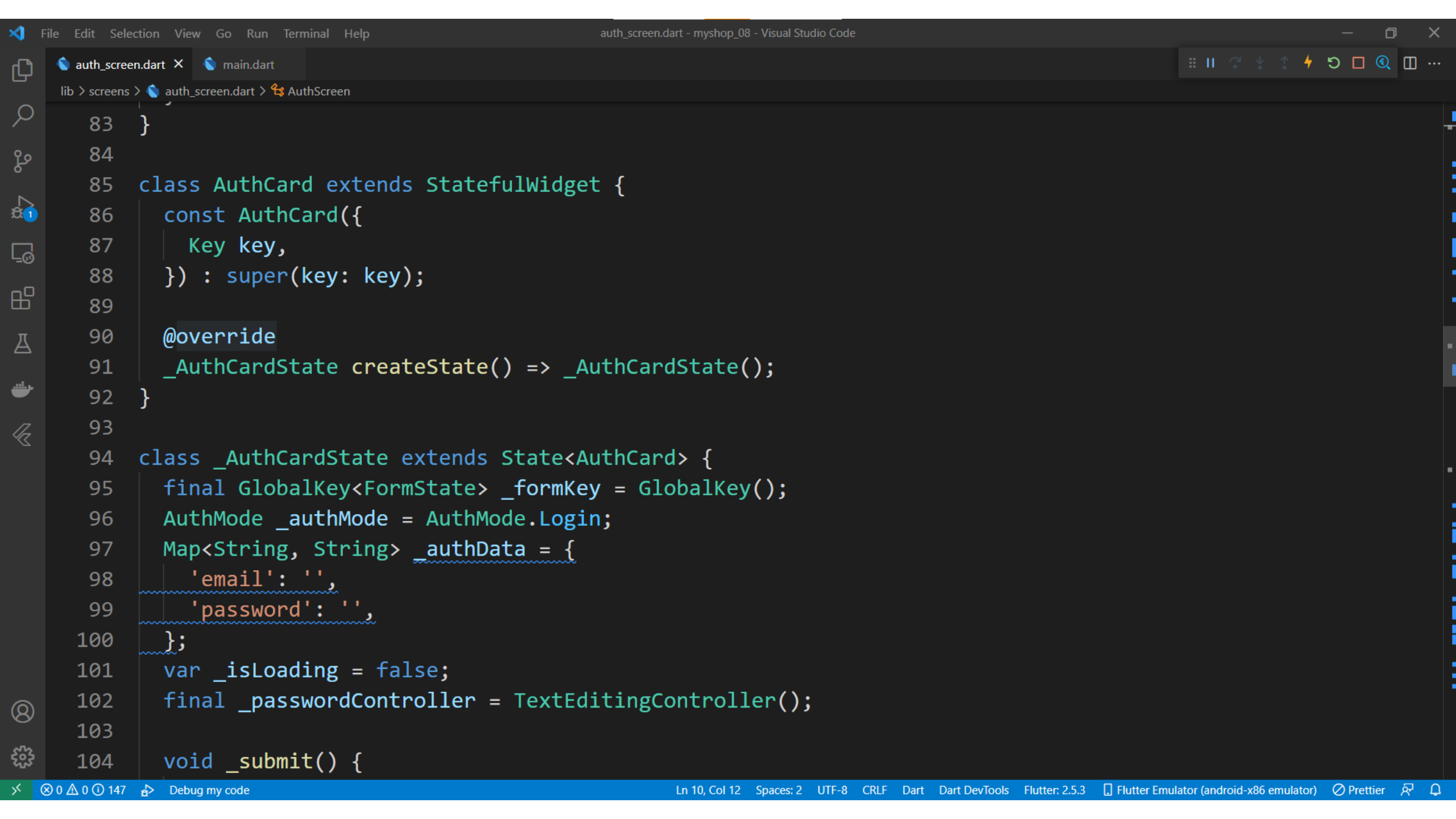
File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
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main.dart
lib > screens > auth_screen.dart > AuthScreen
}
class AuthCard extends StatefulWidget {
const AuthCard({
Key key,
}) : super(key: key);
@override
_AuthCardState createState() => _AuthCardState();
}
class _AuthCardState extends State<AuthCard> {
final GlobalKey<FormState> _formKey = GlobalKey();
AuthMode _authMode = AuthMode.Login;
Map<String, String> _authData = {
'email': '',
'password': '',
};
var _isLoading = false;
final _passwordController = TextEditingController();
void _submit() {
Debug my code
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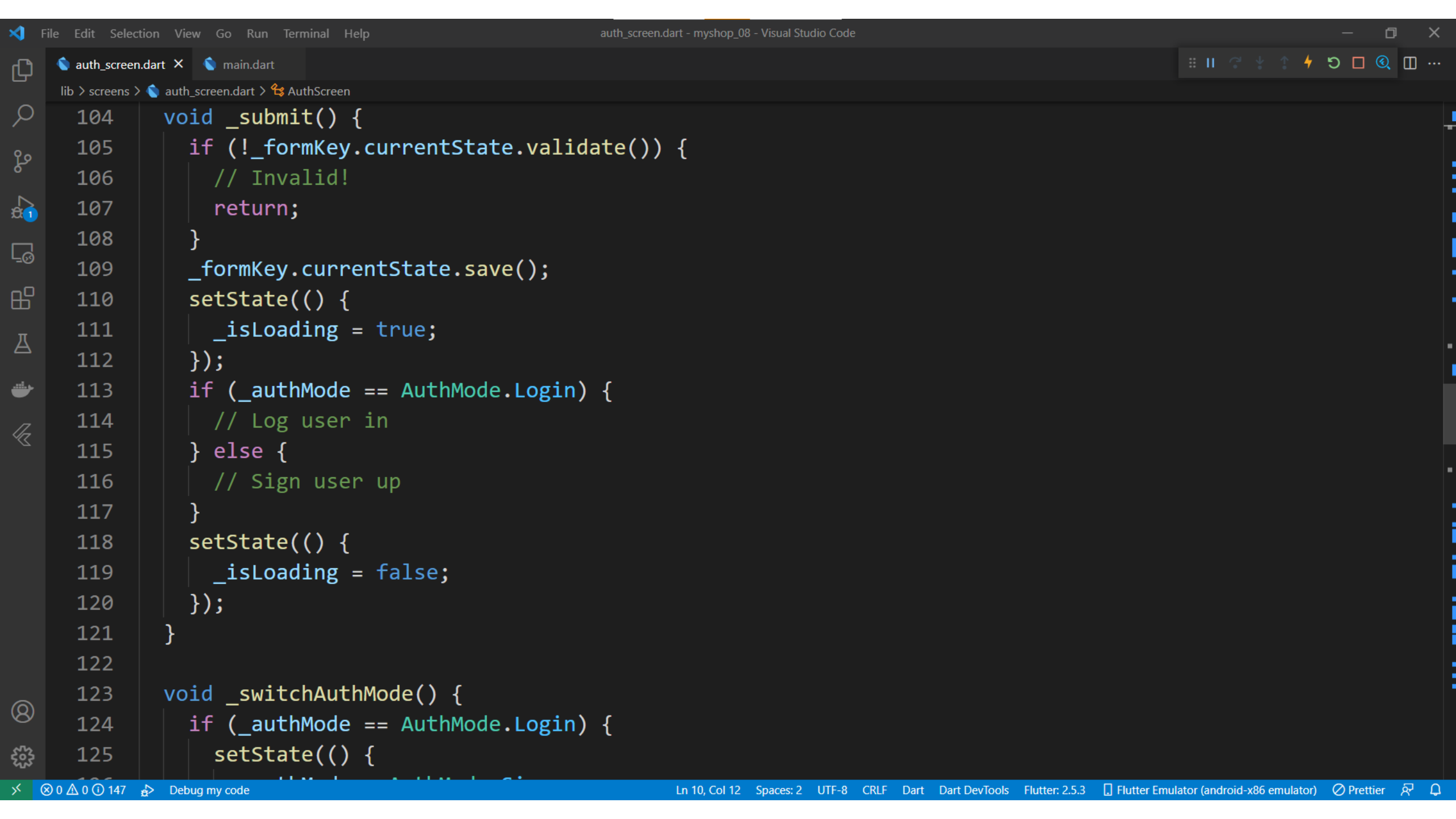
File Edit Selection View Go Run Terminal Help
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auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
104 void _submit() {
105 if (!_formKey.currentState.validate()) {
106 // Invalid!
107 return;
108 }
109 _formKey.currentState.save();
110 setState(() {
111 _isLoading = true;
112 });
113 if (_authMode == AuthMode.Login) {
114 // Log user in
115 } else {
116 // Sign user up
117 }
118 setState(() {
119 _isLoading = false;
120 });
121 }
122
123 void _switchAuthMode() {
124 if (_authMode == AuthMode.Login) {
125 setState(() {
Debug my code
Ln 10, Col 12
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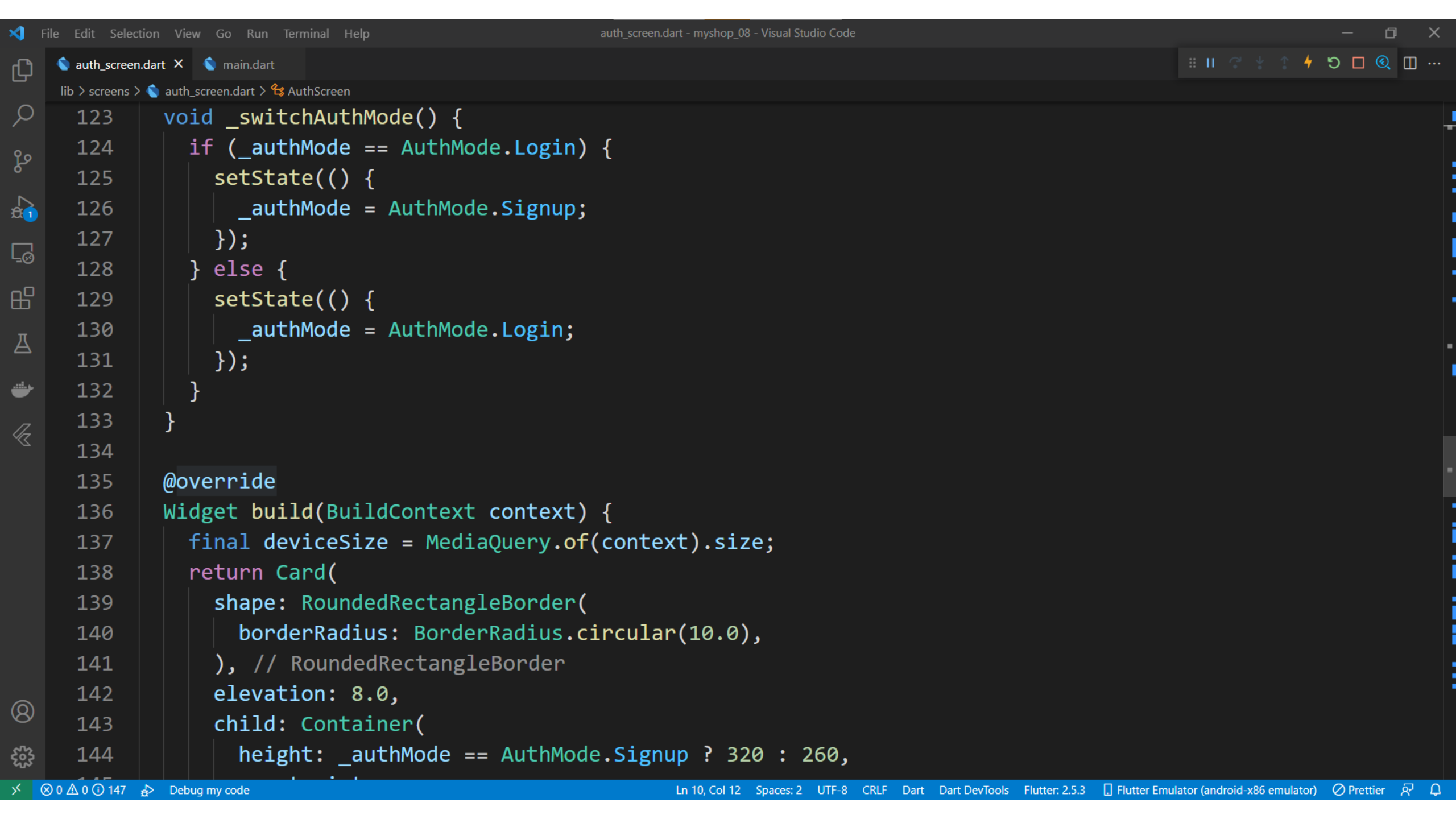
Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
123 void _switchAuthMode() {
124 if (_authMode == AuthMode.Login) {
125 setState(() {
126 _authMode = AuthMode.Signup;
127 });
128 } else {
129 setState(() {
130 _authMode = AuthMode.Login;
131 });
132 }
133 }
134
135 @override
136 Widget build(BuildContext context) {
137 final deviceSize = MediaQuery.of(context).size;
138 return Card(
139 shape: RoundedRectangleBorder(
140 borderRadius: BorderRadius.circular(10.0),
141), // RoundedRectangleBorder
142 elevation: 8.0,
143 child: Container(
144 height: _authMode == AuthMode.Signup ? 320 : 260,
0 0 147
Debug my code
Ln 10, Col 12
Spaces: 2
UTF-8
CRLF
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Dart DevTools
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Flutter Emulator (android-x86 emulator)
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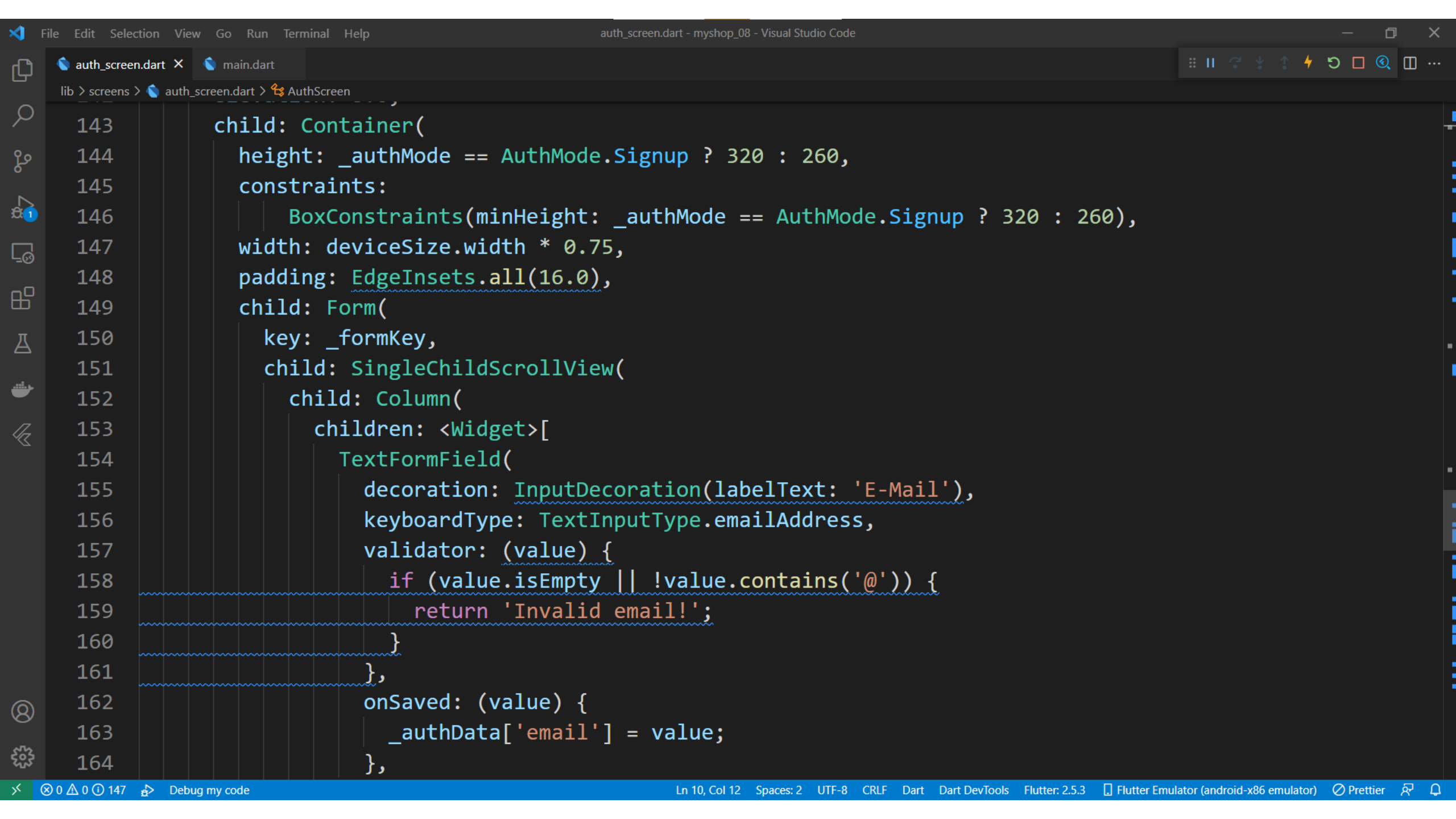
File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
child: Container(
height: _authMode == AuthMode.Signup ? 320 : 260,
constraints:
BoxConstraints(minHeight: _authMode == AuthMode.Signup ? 320 : 260),
width: deviceSize.width * 0.75,
padding: EdgeInsets.all(16.0),
child: Form(
key: _formKey,
child: SingleChildScrollView(
child: Column(
children: <Widget>[
TextFormField(
decoration: InputDecoration(labelText: 'E-Mail'),
keyboardType: TextInputType.emailAddress,
validator: (value) {
if (value.isEmpty || !value.contains('@')) {
return 'Invalid email!';
}
},
onSaved: (value) {
_authData['email'] = value;
},
0 0 147
Debug my code
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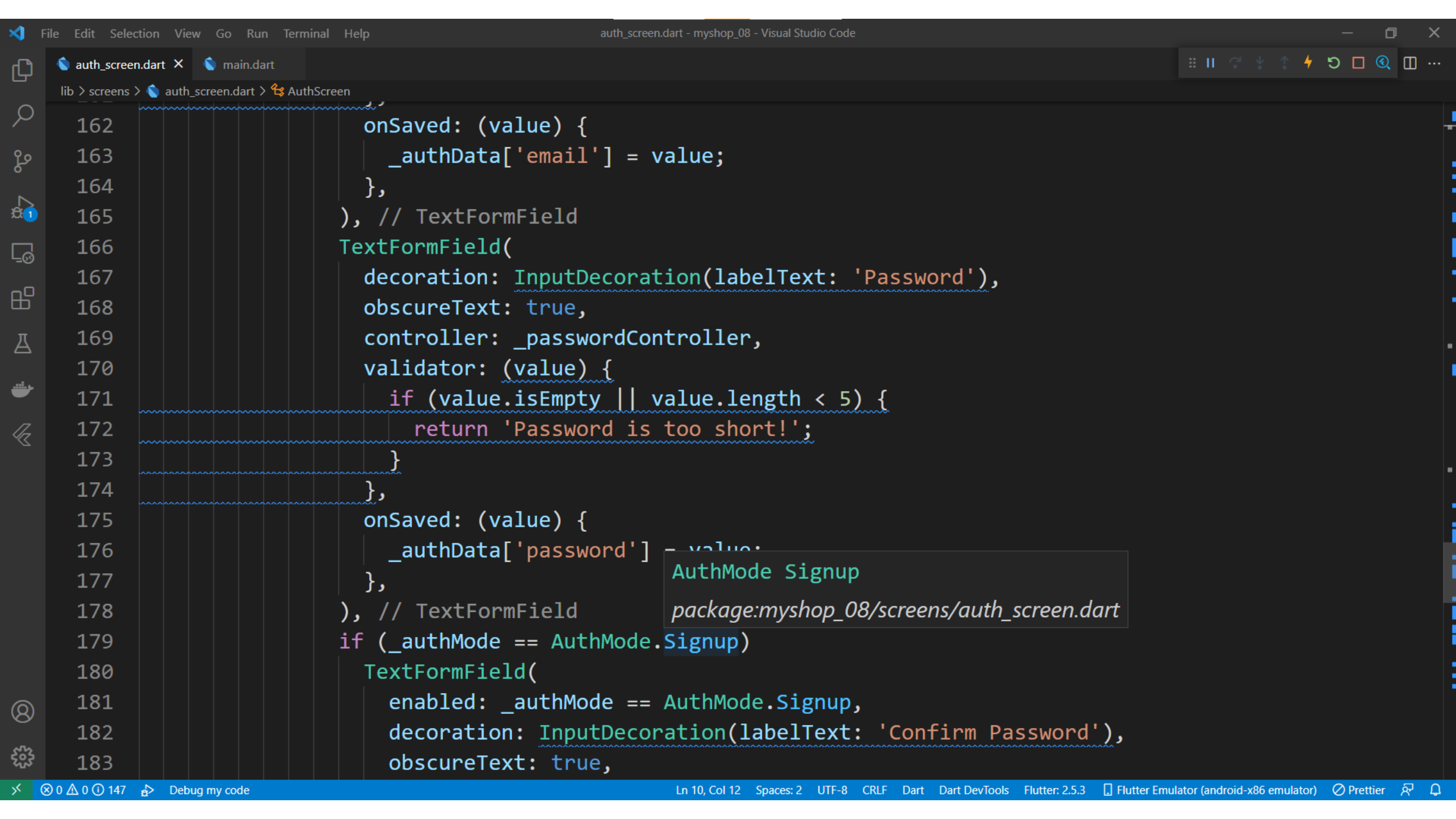
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auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
onSaved: (value) {
_authData['email'] = value;
},
), // TextFormField
TextFormField(
decoration: InputDecoration(labelText: 'Password'),
obscureText: true,
controller: _passwordController,
validator: (value) {
if (value.isEmpty || value.length < 5) {
return 'Password is too short!';
}
},
onSaved: (value) {
_authData['password'] = value;
},
), // TextFormField
if (_authMode == AuthMode.Signup)
TextFormField(
enabled: _authMode == AuthMode.Signup,
decoration: InputDecoration(labelText: 'Confirm Password'),
obscureText: true,
AuthMode Signup
package:myshop_08/screens/auth_screen.dart
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Flutter Emulator (android-x86 emulator)
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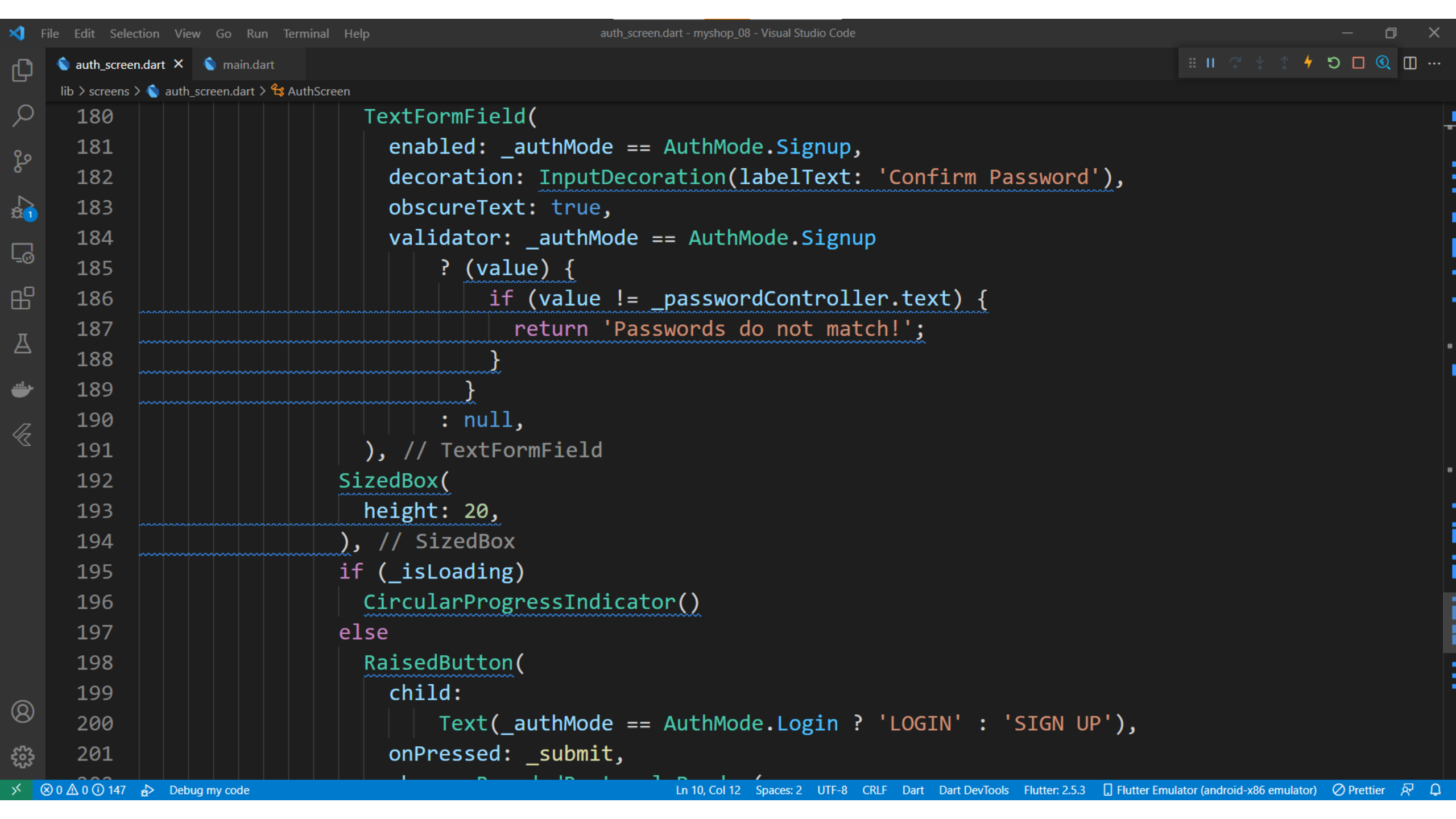
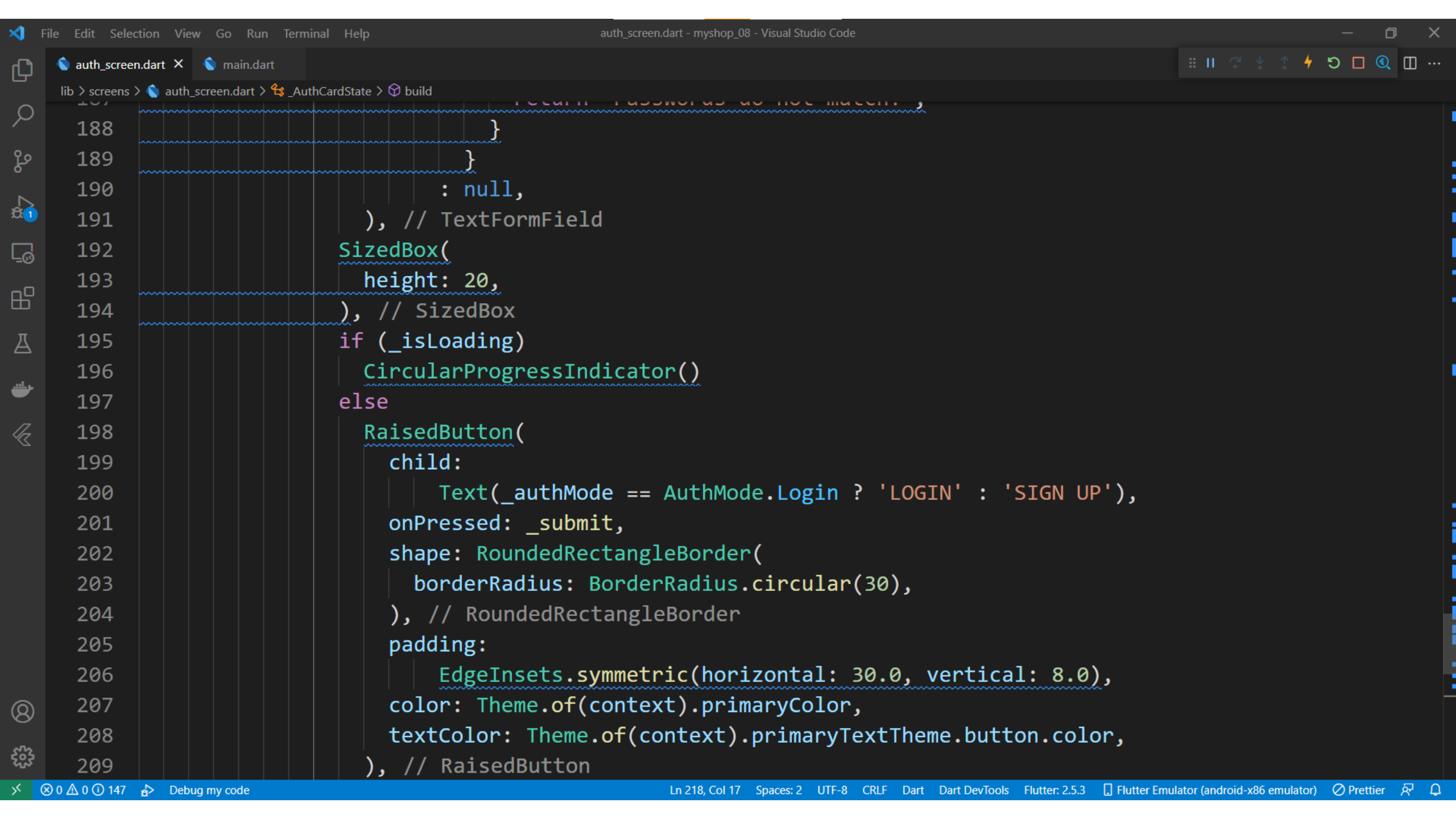
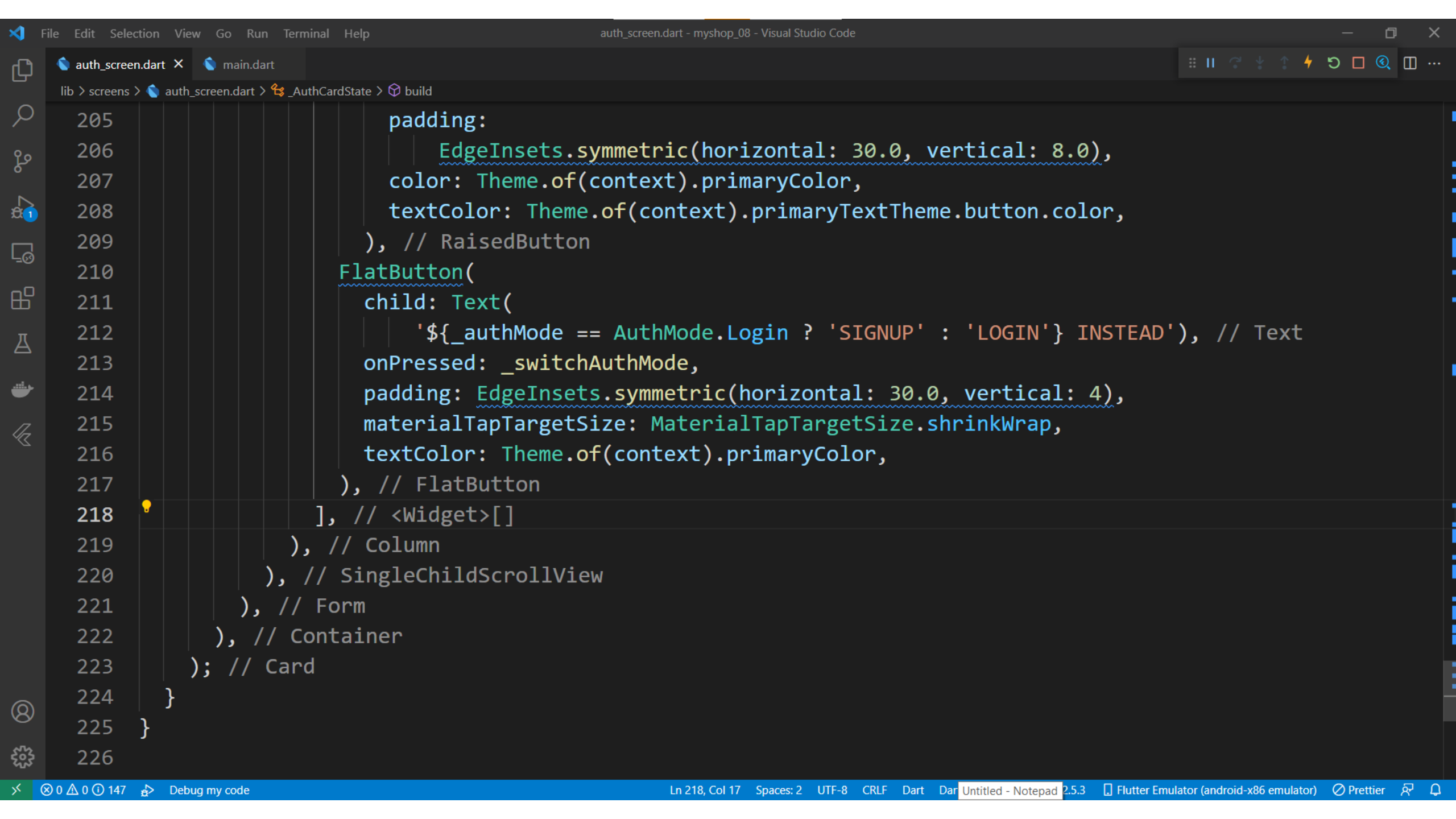
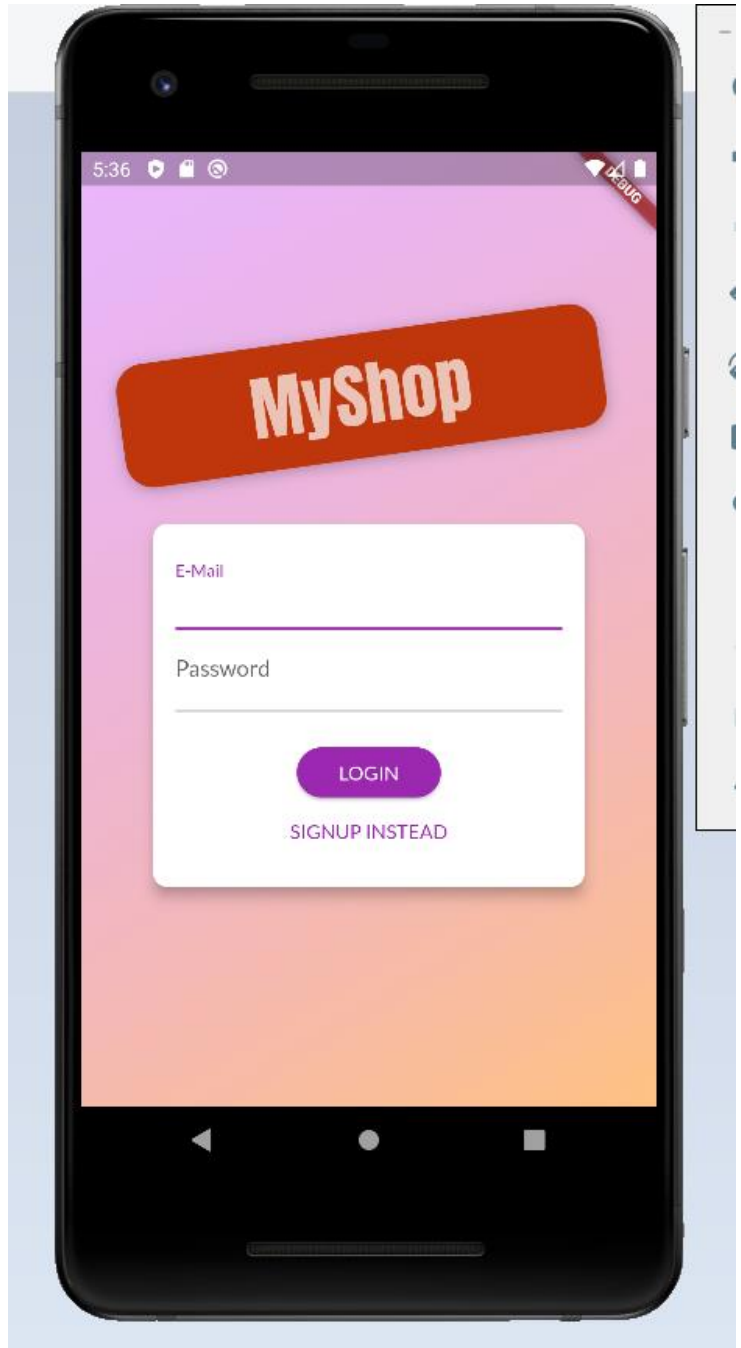

File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > AuthScreen
TextFormField(
enabled: _authMode == AuthMode.Signup,
decoration: InputDecoration(labelText: 'Confirm Password'),
obscureText: true,
validator: _authMode == AuthMode.Signup
? (value) {
if (value != _passwordController.text) {
return 'Passwords do not match!';
}
}
: null,
), // TextFormField
SizedBox(
height: 20,
), // SizedBox
if (_isLoading)
CircularProgressIndicator()
else
RaisedButton(
child:
Text(_authMode == AuthMode.Login ? 'LOGIN' : 'SIGN UP'),
onPressed: _submit,
0 0 147
Debug my code
Ln 10, Col 12
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState > build
188 }
189 }
190 : null,
191), // TextFormField
192 SizedBox(
193 height: 20,
194), // SizedBox
195 if (_isLoading)
196 CircularProgressIndicator()
197 else
198 RaisedButton(
199 child:
200 Text(_authMode == AuthMode.Login ? 'LOGIN' : 'SIGN UP'),
201 onPressed: _submit,
202 shape: RoundedRectangleBorder(
203 borderRadius: BorderRadius.circular(30),
204), // RoundedRectangleBorder
205 padding:
206 EdgeInsets.symmetric(horizontal: 30.0, vertical: 8.0),
207 color: Theme.of(context).primaryColor,
208 textColor: Theme.of(context).primaryTextTheme.button.color,
209), // RaisedButton
Debug my code
Ln 218, Col 17 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState > build
205 padding:
206 EdgeInsets.symmetric(horizontal: 30.0, vertical: 8.0),
207 color: Theme.of(context).primaryColor,
208 textColor: Theme.of(context).primaryTextTheme.button.color,
209), // RaisedButton
210 FlatButton(
211 child: Text(
212 '${_authMode == AuthMode.Login ? 'SIGNUP' : 'LOGIN'} INSTEAD'), // Text
213 onPressed: _switchAuthMode,
214 padding: EdgeInsets.symmetric(horizontal: 30.0, vertical: 4),
215 materialTapTargetSize: MaterialTapTargetSize.shrinkWrap,
216 textColor: Theme.of(context).primaryColor,
217), // FlatButton
218], // <Widget>[]
219), // Column
220), // SingleChildScrollView
221), // Form
222), // Container
223); // Card
224 }
225 }
226
Ln 218, Col 17 Spaces: 2 UTF-8 CRLF Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator)
Prettier
Debug my code


5:36
DEBUG
MyShop
E-Mail
Password
LOGIN
SIGNUP INSTEAD

ADDING USER SIGNUP

belajar-flutter – Firebase console | Add Firebase to your Flutter app | firebase rest auth api - Bing

https://www.bing.com/search?q=firebase+rest+auth+api&cvid=67f66a509d9e49ebb2d71d9e39944678&aqs=edge.0.69i59j69i64l2.4089j0j4&FORM=ANAB01...

Microsoft Bing

firebase rest auth api

Rizqi

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How to Make a REST API - Extensive Reference Handbook

https://serverlesshandbook.dev

Ad Get started with serverless backend technologies. Designed for frontend engineers diving into backend tech for the first time

The REST API **accepts the same Firebase ID tokens used by the client SDKs**. Google OAuth2 access tokens Any data that's publicly readable or writable according to your Realtime Database Rules is also readable and writable via the REST API without any authentication.

Image: medium.com

Authenticate REST Requests | Firebase Documentation

firebase.google.com/docs/database/rest/auth

Was this helpful?

People also ask

Firebase

Platform

Firebase is a platform developed by Google for creating mobile and web applications. It was originally ... +

Wikipedia Facebook LinkedIn

Founded: 01 Sep 2011

Founders: James Tamplin · Andrew Lee

Leading companies: Google

Year of invention: 2012–present

People also search for

- INVALID_GRANT_TYPE: the grant type specified is invalid.
- MISSING_REFRESH_TOKEN: no refresh token provided.

Sign up with email / password

You can create a new email and password user by issuing an HTTP `POST` request to the Auth `signupNewUser` endpoint.

Method: POST

Content-Type: application/json

Endpoint

```
https://www.googleapis.com/identitytoolkit/v3/relyingparty/signupNewUser?key=[API_KEY]
```

Request Body Payload

Property Name	Type	Description
email	string	The email for the user to create.
password	string	The password for the user to create.
returnSecureToken	boolean	Whether or not to return an ID and refresh token. Should always be true.

Response Payload

Property Name	Type	Description
kind	string	The request type, always "identitytoolkit#SignupNewUserResponse".

```
https://www.googleapis.com/identitytoolkit/v3/relyingparty/signupNewUser?key=[API_KEY]
```

Request Body Payload

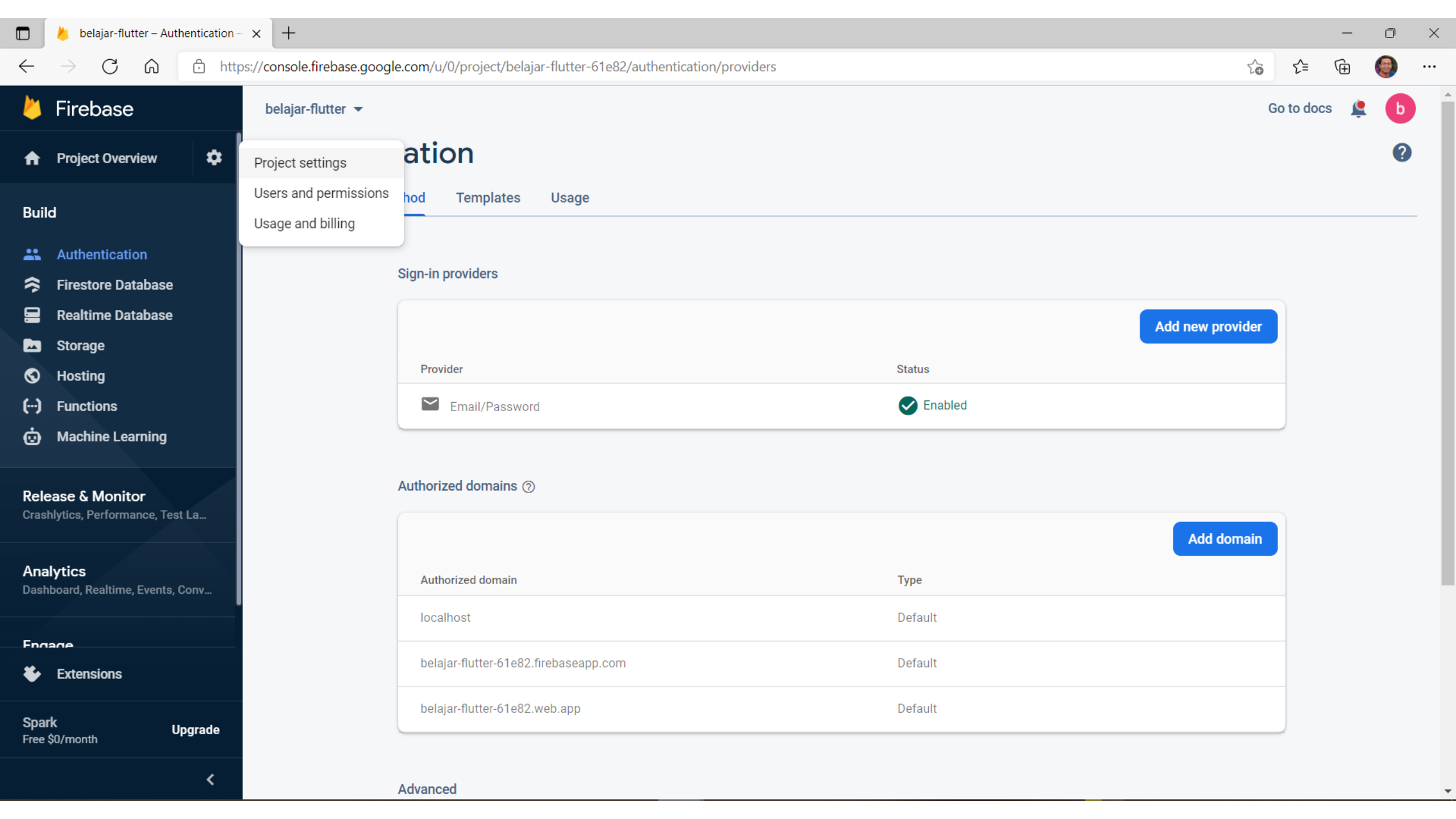
Property Name	Type	Description
email	string	The email for the user to create.
password	string	The password for the user to create.
returnSecureToken	boolean	Whether or not to return an ID and refresh token. Should always be true.

Response Payload

Property Name	Type	Description
kind	string	The request type, always "identitytoolkit#SignupNewUserResponse".
idToken	string	A Firebase Auth ID token for the newly created user.
email	string	The email for the newly created user.
refreshToken	string	A Firebase Auth refresh token for the newly created user.
expiresIn	string	The number of seconds in which the ID token expires.
localId	string	The uid of the newly created user.

Sample request

```
curl 'https://www.googleapis.com/identitytoolkit/v3/relyingparty/signupNewUser?key=[API_KEY]' \
-H 'Content-Type: application/json' \
```


belajar-flutter – Authentication
https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/authentication/providers
Firebase
belajar-flutter
Go to docs
Project Overview
Project settings
Users and permissions
Usage and billing
Build
Authentication
Firestore Database
Realtime Database
Storage
Hosting
Functions
Machine Learning
Release & Monitor
Crashlytics, Performance, Test La...
Analytics
Dashboard, Realtime, Events, Conv...
Extensions
Spark
Free $0/month
Upgrade
ation
hod
Templates
Usage
Sign-in providers
Add new provider
Provider
Status
Email/Password
Enabled
Authorized domains
Add domain
Authorized domain
Type
localhost
Default
belajar-flutter-61e82.firebaseapp.com
Default
belajar-flutter-61e82.web.app
Default
Advanced

Firebase
Project Overview

Build
Authentication
Firestore Database
Realtime Database
Storage
Hosting
Functions
Machine Learning

Release & Monitor
Crashlytics, Performance, Test La...

Analytics
Dashboard, Realtime, Events, Conv...

Engage
Extensions

Spark
Free $0/month
Upgrade

Project settings

General | Cloud Messaging | Integrations | Service accounts | Data privacy | Users and permissions | App Check BETA

Your project

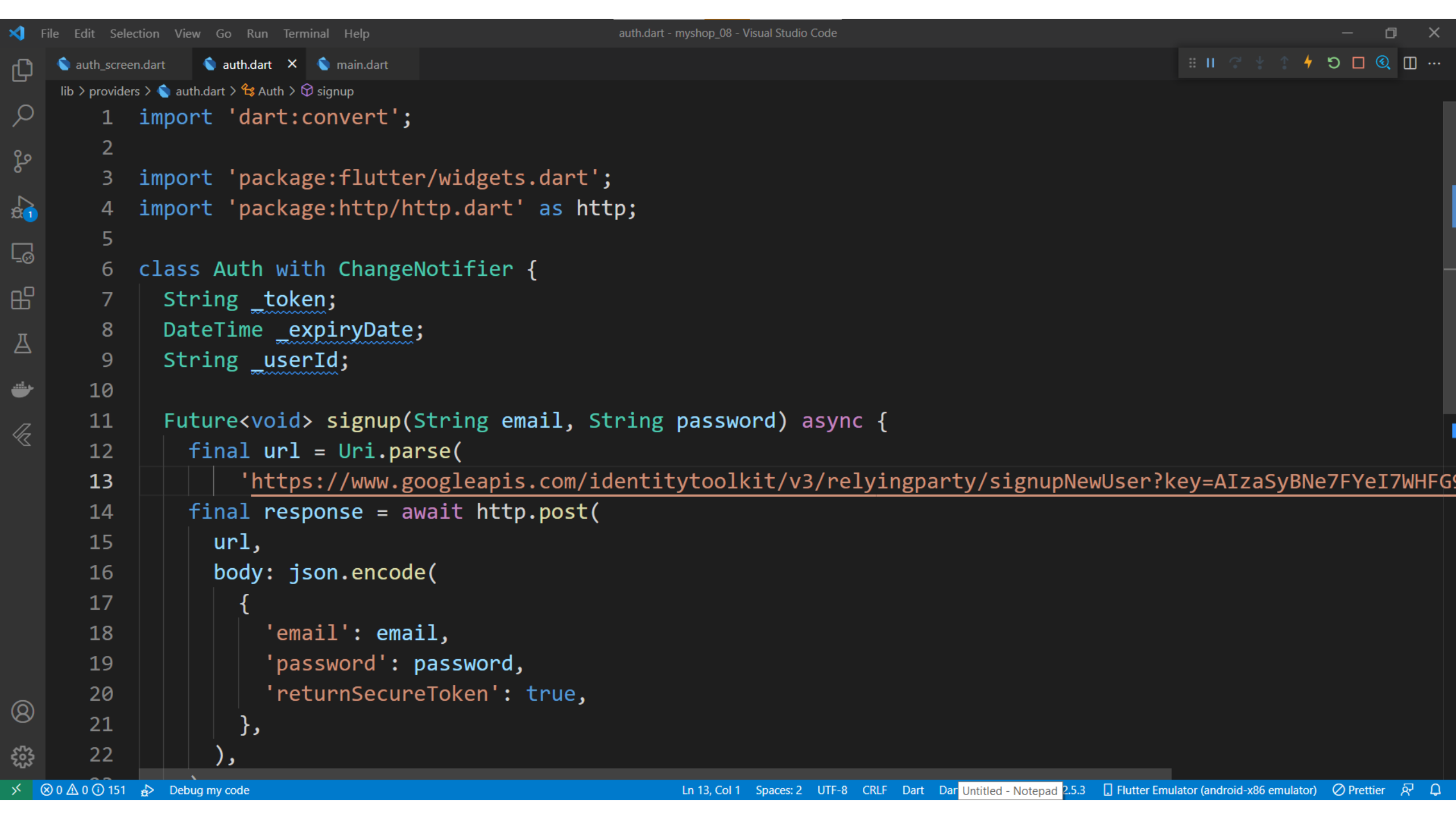
Project name	belajar-flutter
Project ID	belajar-flutter-61e82
Project number	742777624990
Default GCP resource location	Not yet selected
Web API Key	AIzaSyBNe7FYeI7WHFG9beoi3G1-VkEtt0uTzxQ

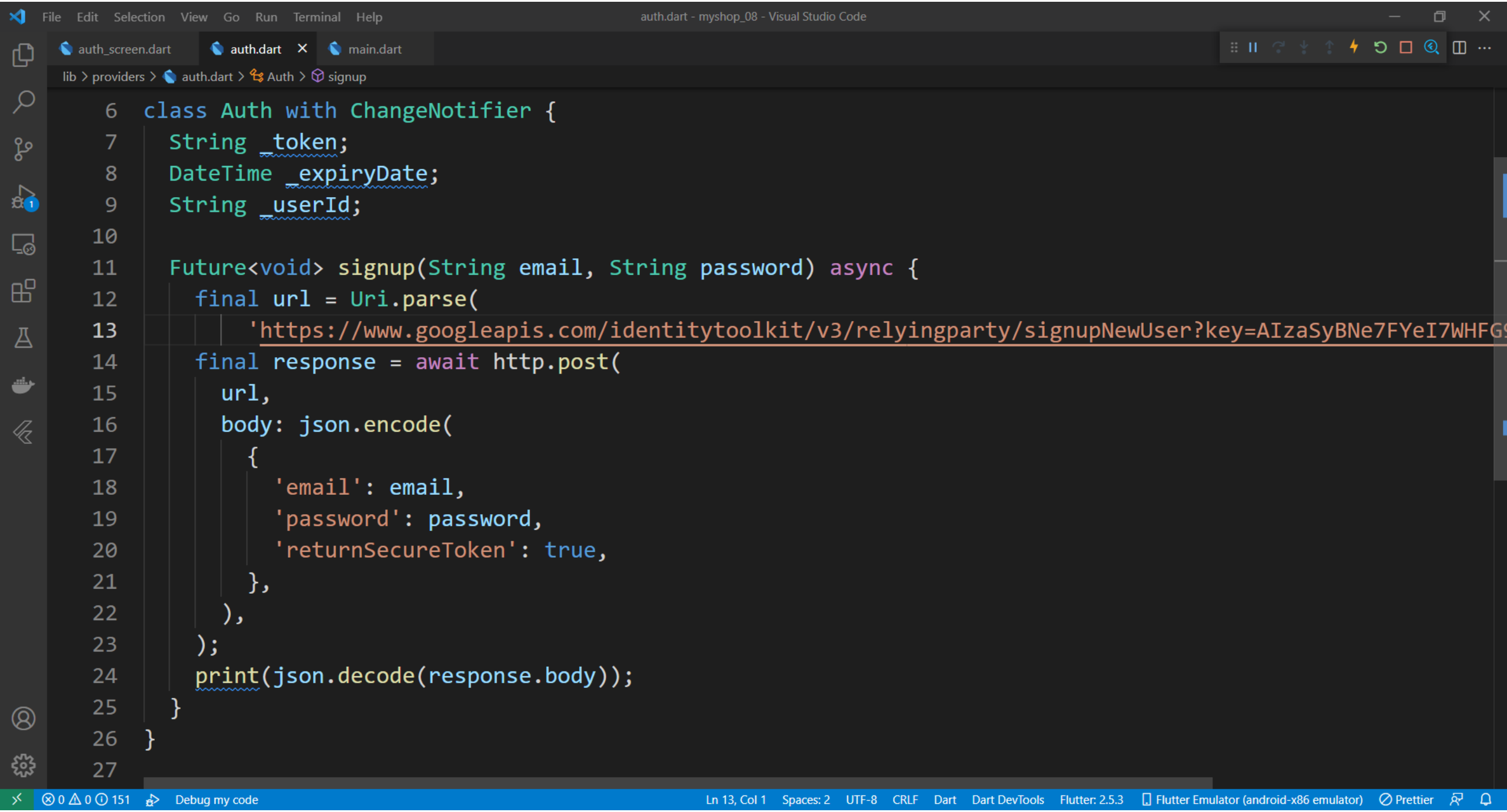
Public settings

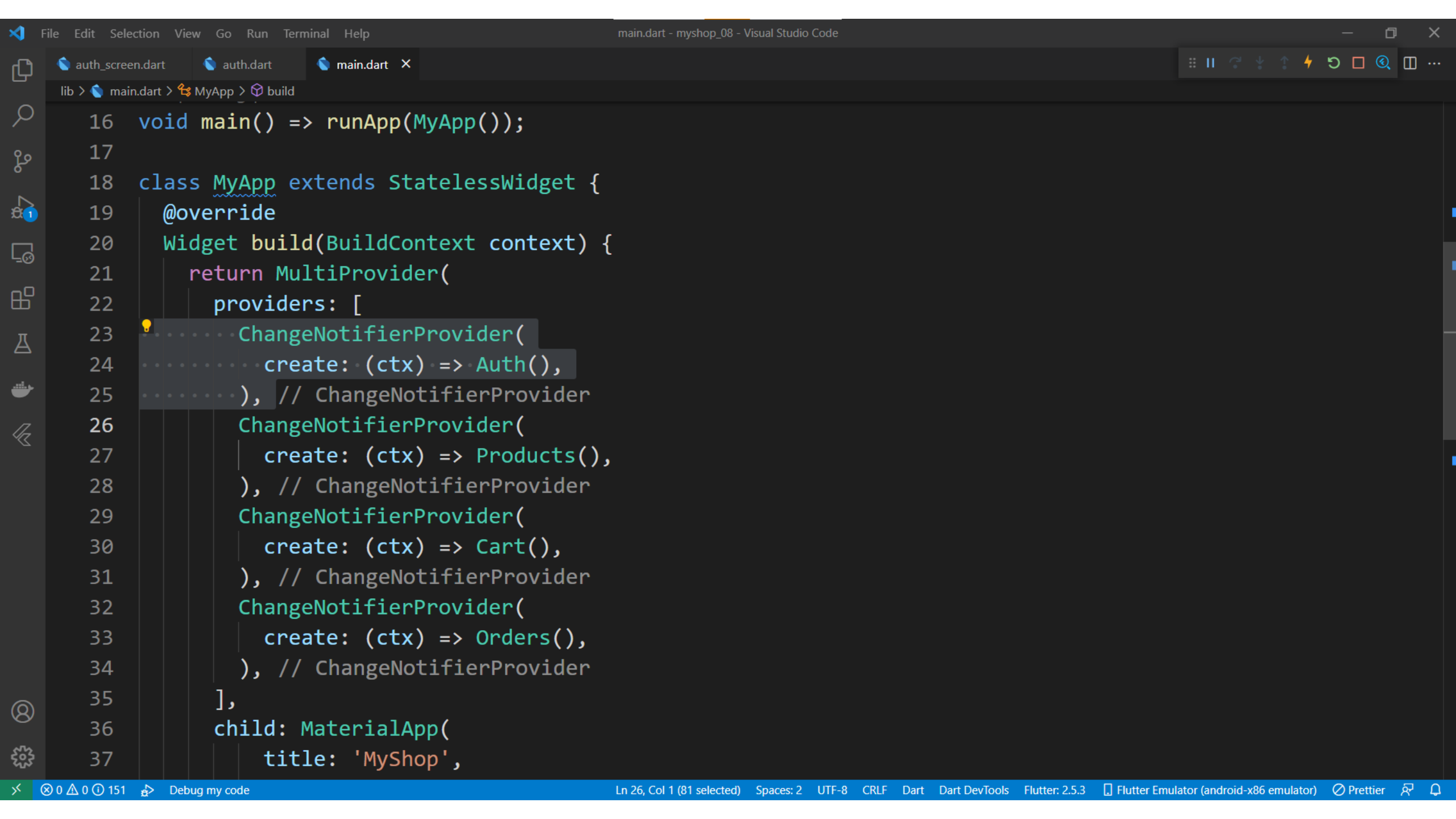
These settings control instances of your project shown to the public

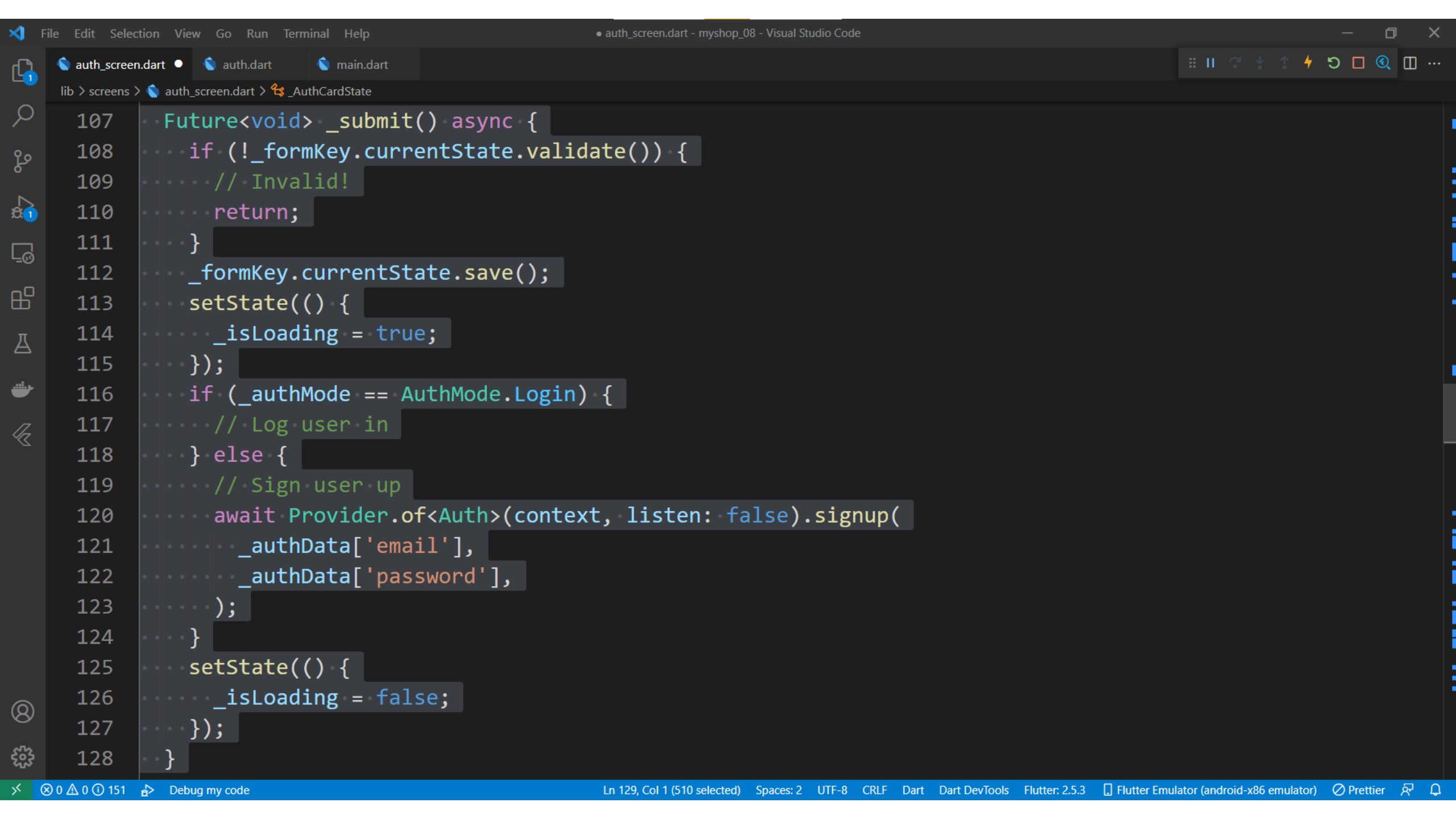
Public-facing name	project-742777624990
Support email	Not configured

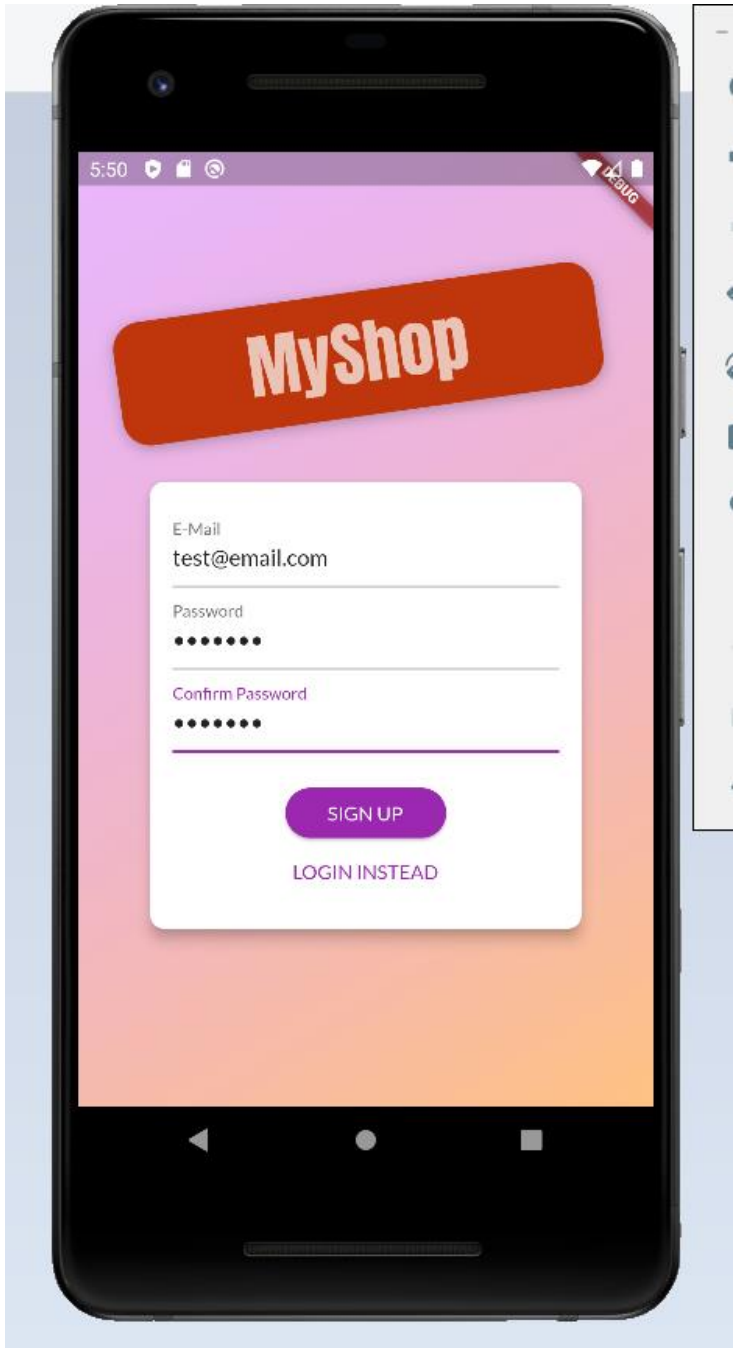
Your apps

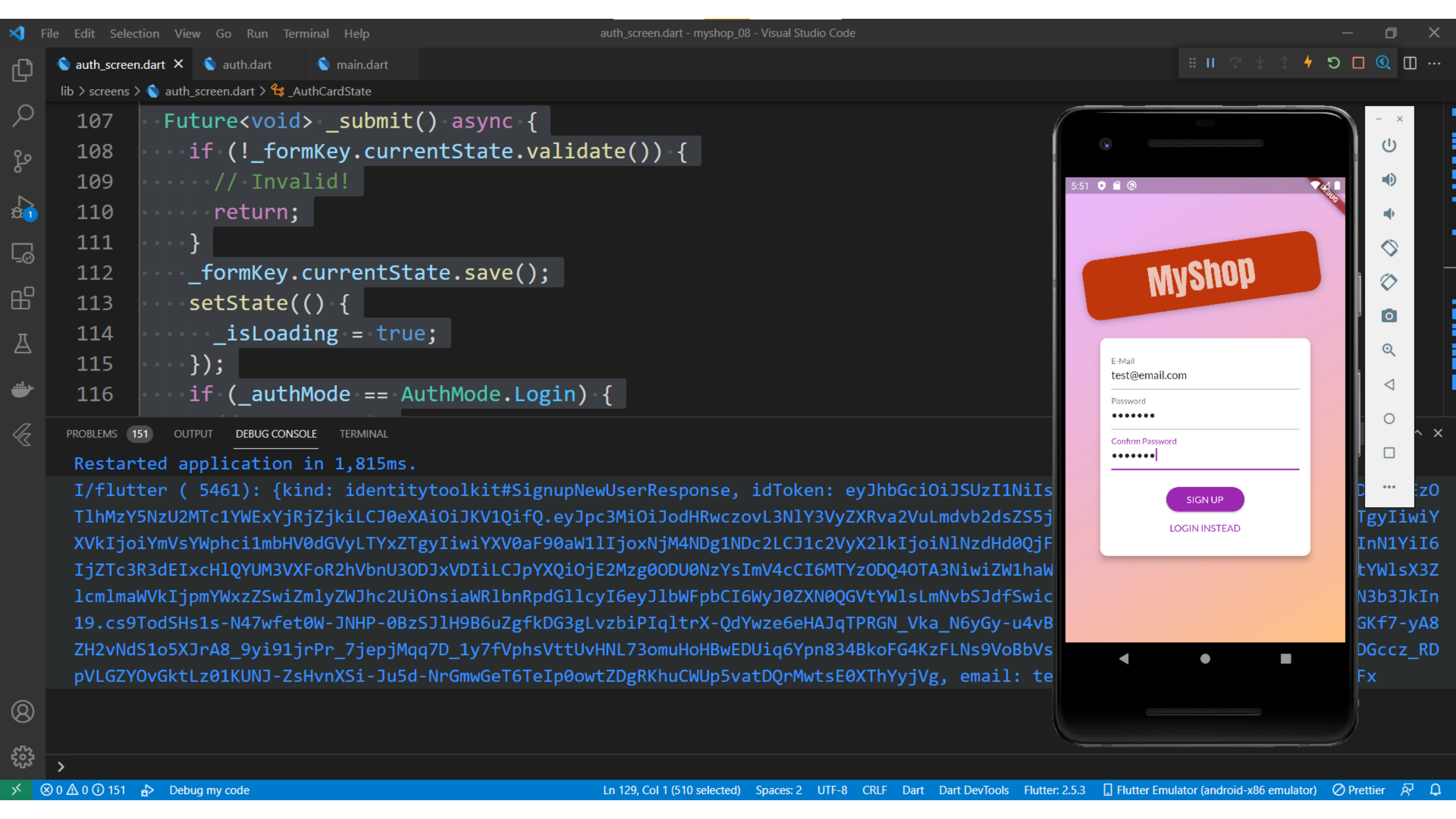

File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > providers > auth.dart > Auth > signup
1 import 'dart:convert';
2
3 import 'package:flutter/widgets.dart';
4 import 'package:http/http.dart' as http;
5
6 class Auth with ChangeNotifier {
7 String _token;
8 DateTime _expiryDate;
9 String _userId;
10
11 Future<void> signup(String email, String password) async {
12 final url = Uri.parse(
13 'https://www.googleapis.com/identitytoolkit/v3/relyingparty/signupNewUser?key=AIzaSyBNe7FYeI7WHFG
14 final response = await http.post(
15 url,
16 body: json.encode(
17 {
18 'email': email,
19 'password': password,
20 'returnSecureToken': true,
21 },
22),
Ln 13, Col 1 Spaces: 2 UTF-8 CRLF Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator)
Prettier
Debug my code

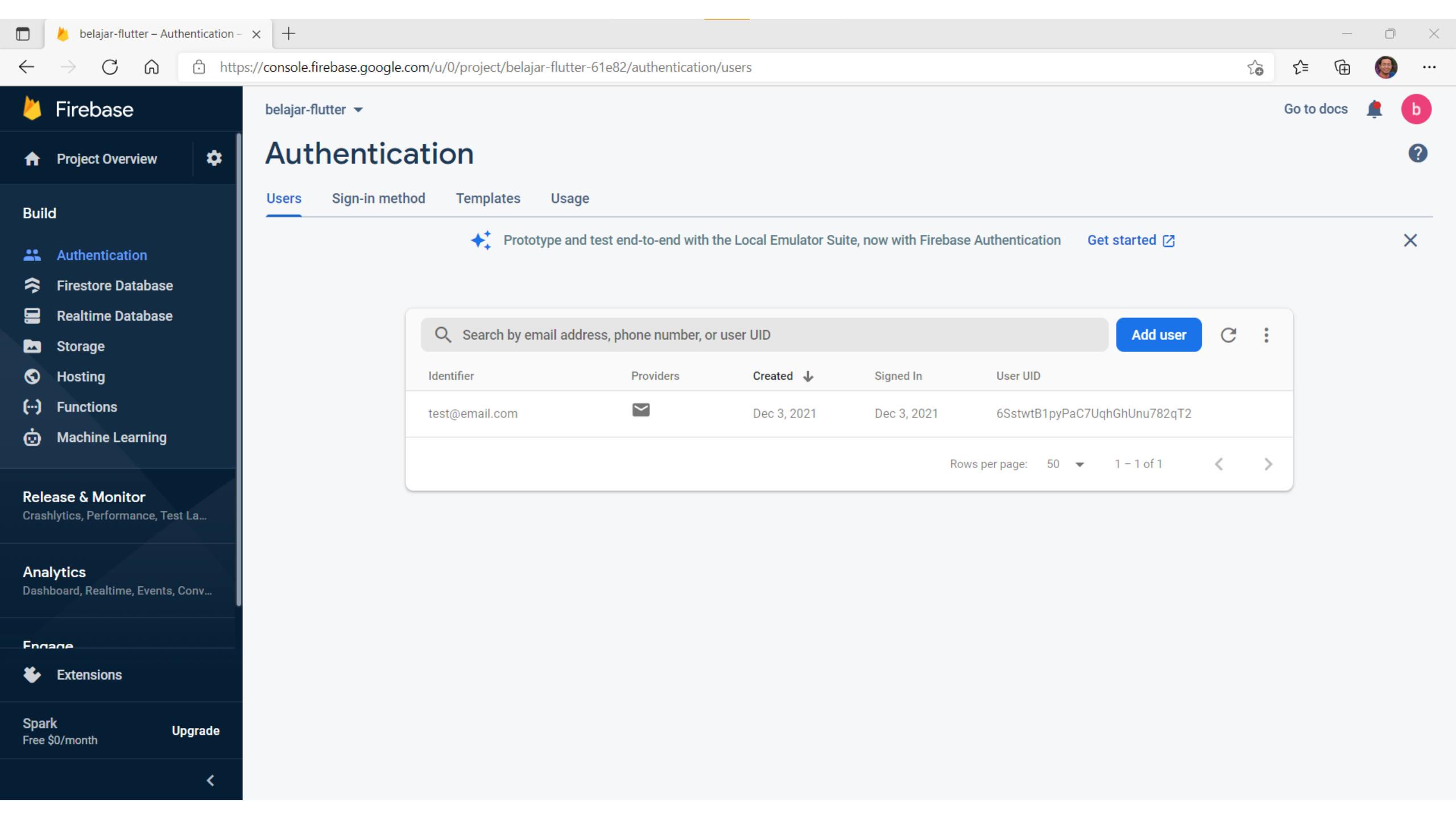

File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > providers > auth.dart > Auth > signup
class Auth with ChangeNotifier {
String _token;
DateTime _expiryDate;
String _userId;
Future<void> signup(String email, String password) async {
final url = Uri.parse(
'https://www.googleapis.com/identitytoolkit/v3/relyingparty/signupNewUser?key=AIzaSyBNe7FYeI7WHFG
final response = await http.post(
url,
body: json.encode(
{
'email': email,
'password': password,
'returnSecureToken': true,
},
),
);
print(json.decode(response.body));
}
}
Debug my code
Ln 13, Col 1
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
main.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > main.dart > MyApp > build
16 void main() => runApp(MyApp());
17
18 class MyApp extends StatelessWidget {
19 @override
20 Widget build(BuildContext context) {
21 return MultiProvider(
22 providers: [
23 ChangeNotifierProvider(
24 create: (ctx) => Auth(),
25), // ChangeNotifierProvider
26 ChangeNotifierProvider(
27 create: (ctx) => Products(),
28), // ChangeNotifierProvider
29 ChangeNotifierProvider(
30 create: (ctx) => Cart(),
31), // ChangeNotifierProvider
32 ChangeNotifierProvider(
33 create: (ctx) => Orders(),
34), // ChangeNotifierProvider
35],
36 child: MaterialApp(
37 title: 'MyShop',
0 0 151
Debug my code
Ln 26, Col 1 (81 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
• auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState
107 Future<void> _submit() async {
108 if (!_formKey.currentState.validate()) {
109 // Invalid!
110 return;
111 }
112 _formKey.currentState.save();
113 setState(() {
114 _isLoading = true;
115 });
116 if (_authMode == AuthMode.Login) {
117 // Log user in
118 } else {
119 // Sign user up
120 await Provider.of<Auth>(context, listen: false).signup(
121 _authData['email'],
122 _authData['password'],
123);
124 }
125 setState(() {
126 _isLoading = false;
127 });
128 }
0 0 151
Debug my code
Ln 129, Col 1 (510 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


5:50
DEBUG
MyShop
E-Mail
test@email.com
Password
•••••••
Confirm Password
•••••••
SIGN UP
LOGIN INSTEAD


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState
107 Future<void> _submit() async {
108 if (!_formKey.currentState.validate()) {
109 // Invalid!
110 return;
111 }
112 _formKey.currentState.save();
113 setState(() {
114 _isLoading = true;
115 });
116 if (_authMode == AuthMode.Login) {
PROBLEMS 151
OUTPUT
DEBUG CONSOLE
TERMINAL
Restarted application in 1,815ms.
I/flutter (5461): {kind: identitytoolkit#SignupNewUserResponse, idToken: eyJhbGciOiJSUzI1NiIs
TlhMzY5NzU2MTc1YWExYjRjZjkiLCJ0eXAiOiJKV1QifQ.eyJpc3MiOiJodHRwczovL3NlY3VyZXRva2VuLmdvb2dsZS5j
XVkIjoiYmVsYWphci1mbHV0dGVyLTYxZTgyIiwiYXV0aF90aW1lIjoxNjM4NDg1NDc2LCJ1c2VyX2lkIjoiNlNzdHd0QjF
IjZTc3R3dEIxcHlQYUM3VXFoR2hVbnU3ODJxVDIiLCJpYXQiOjE2Mzg0ODU0NzYsImV4cCI6MTYzODQ4OTA3NiwiZW1haW
lcmlmaWVkIjpmYWxzZSwiZmlyZWJhc2UiOnsiaWRlbnRpdGllcyI6eyJlbWFpbCI6WyJ0ZXN0QGVtYWlsLmNvbSJdfSwic
19.cs9TodSHs1s-N47wfet0W-JNHP-0BzSJlH9B6uZgfkDG3gLvzbiPIqltrX-QdYwze6eHAJqTPRGN_Vka_N6yGy-u4vB
ZH2vNdS1o5XJrA8_9yi91jrPr_7jepjMqq7D_1y7fVphsVttUvHNL73omuHoHBwEDUiq6Ypn834BkoFG4KzFLNs9VoBbVs
pVLGZYOvGktLz01KUNJ-ZsHvnXSi-Ju5d-NrGmwGeT6TeIp0owtZDgRKhuCWUp5vatDQrMwtsE0XThYyjVg, email: te
5:51
DEBUG
MyShop
E-Mail
test@email.com
Password
Confirm Password
SIGN UP
LOGIN INSTEAD
Ln 129, Col 1 (510 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier
Debug my code


belajar-flutter – Authentication
https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/authentication/users
Firebase
Project Overview
Build
Authentication
Firestore Database
Realtime Database
Storage
Hosting
Functions
Machine Learning
Release & Monitor
Crashlytics, Performance, Test La...
Analytics
Dashboard, Realtime, Events, Conv...
Extensions
Spark
Free $0/month
Upgrade
belajar-flutter
Go to docs
Authentication
Users
Sign-in method
Templates
Usage
Prototype and test end-to-end with the Local Emulator Suite, now with Firebase Authentication
Get started
Search by email address, phone number, or user UID
Add user
Identifier
Providers
Created
Signed In
User UID
test@email.com
Dec 3, 2021
Dec 3, 2021
6SstwtB1pyPaC7UqhGhUnu782qT2
Rows per page:
50
1 – 1 of 1

ALLOWING USERS TO LOG IN

C++
Unity
Cloud Functions
Admin SDK
REST
Set up and manage a project
Realtime Database
Realtime Database User Auth
Authentication and User Management
Cloud Firestore
Hosting
Remote Config
Dynamic Links
Test Lab
RPC
Security
FCM App Server Protocols
App Indexing
Gradle

- TOO_MANY_ATTEMPTS_TRY_LATER: We have blocked all requests from this device due to unusual activity. Try again later.

Sign in with email / password

You can sign in a user with an email and password by issuing an HTTP `POST` request to the Auth `verifyPassword` endpoint.

Method: POST

Content-Type: application/json

Endpoint

```
https://www.googleapis.com/identitytoolkit/v3/relyingparty/verifyPassword?key=[API_KEY]
```

Request Body Payload

Property Name	Type	Description
email	string	The email the user is signing in with.
password	string	The password for the account.
returnSecureToken	boolean	Whether or not to return an ID and refresh token. Should always be true.

Response Payload

Property Name	Type	Description

C++
Unity
Cloud Functions
Admin SDK
REST
Set up and manage a project β
Realtime Database
Realtime Database User Auth
Authentication and User Management
Cloud Firestore
Hosting
Remote Config
Dynamic Links
Test Lab
RPC
Security
FCM App Server Protocols
App Indexing
Gradle

```
https://www.googleapis.com/identitytoolkit/v3/relyingparty/verifyPassword?key=[API_KEY]
```

Request Body Payload

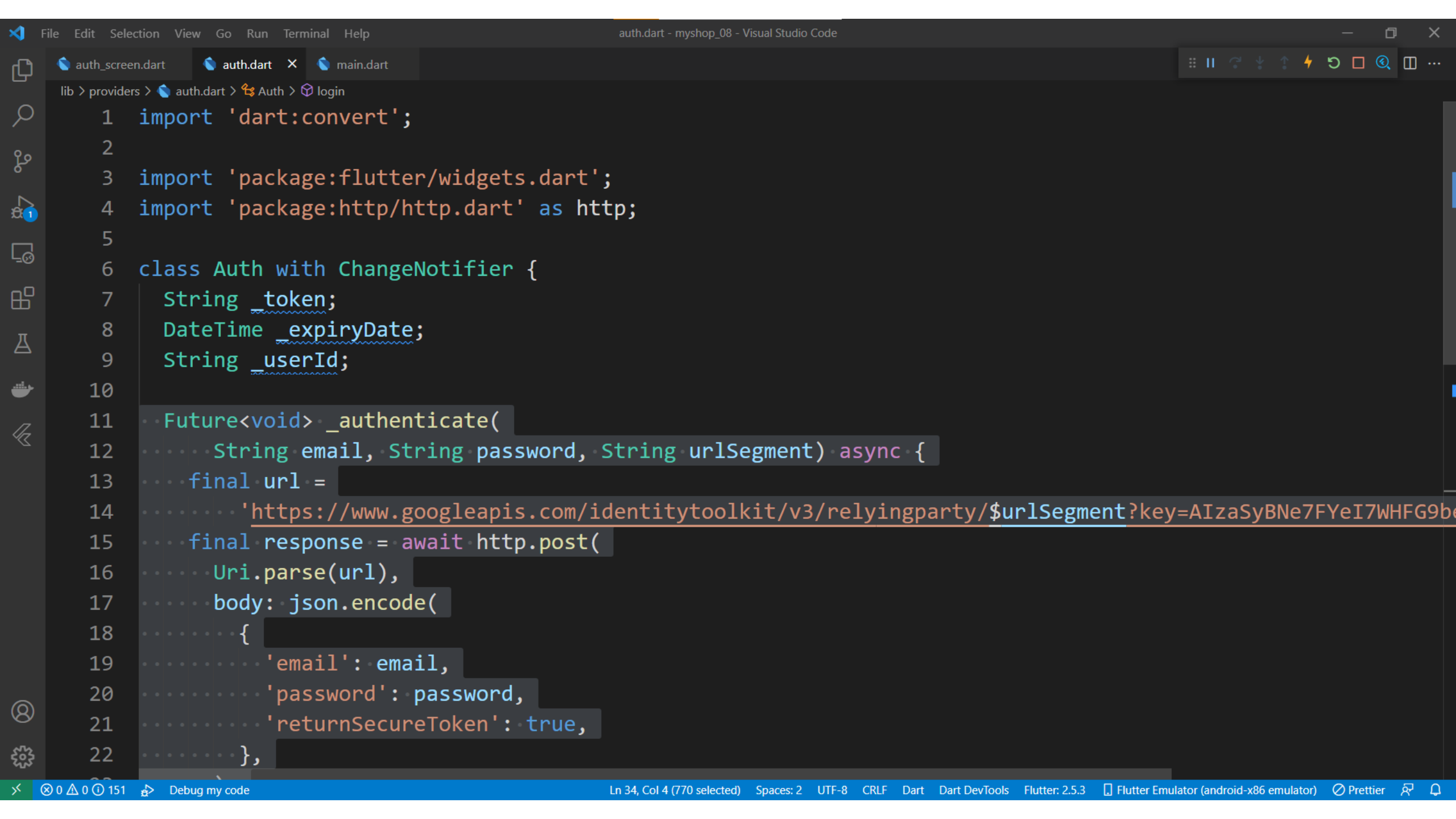
Property Name	Type	Description
email	string	The email the user is signing in with.
password	string	The password for the account.
returnSecureToken	boolean	Whether or not to return an ID and refresh token. Should always be true.

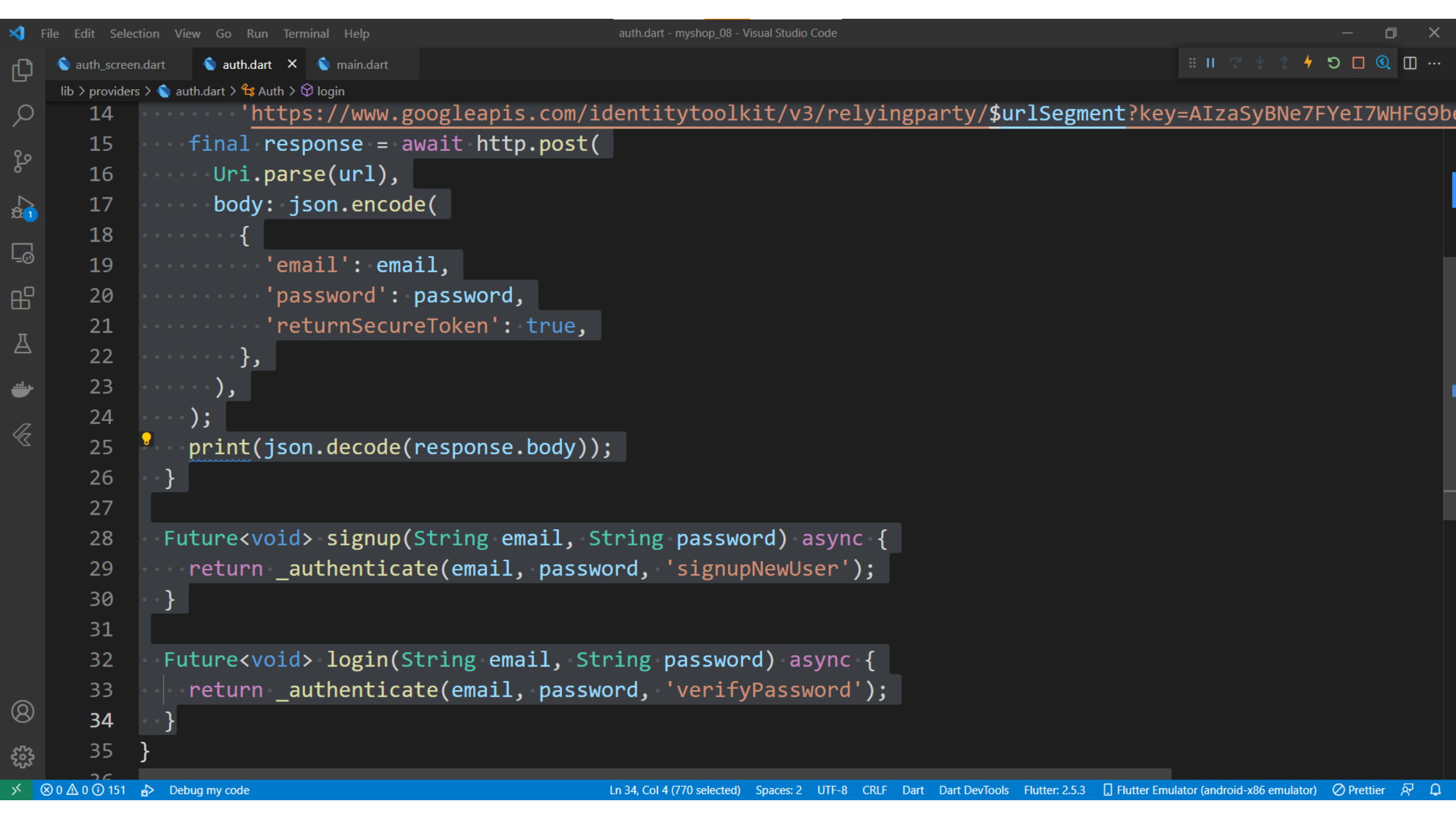
Response Payload

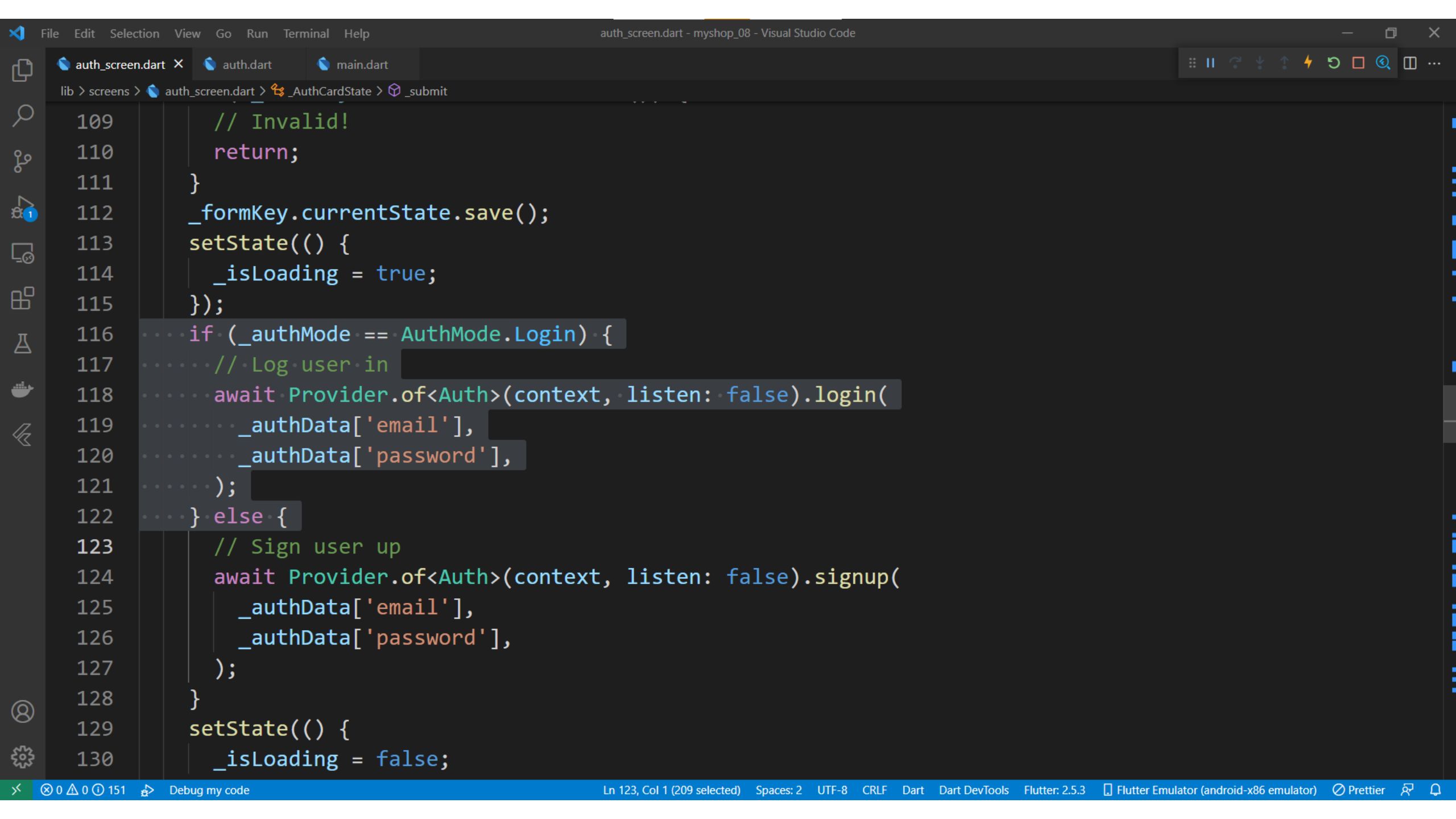
Property Name	Type	Description
kind	string	The request type, always "identitytoolkit#VerifyPasswordResponse".
idToken	string	A Firebase Auth ID token for the authenticated user.
email	string	The email for the authenticated user.
refreshToken	string	A Firebase Auth refresh token for the authenticated user.
expiresIn	string	The number of seconds in which the ID token expires.
localId	string	The uid of the authenticated user.
registered	boolean	Whether the email is for an existing account.

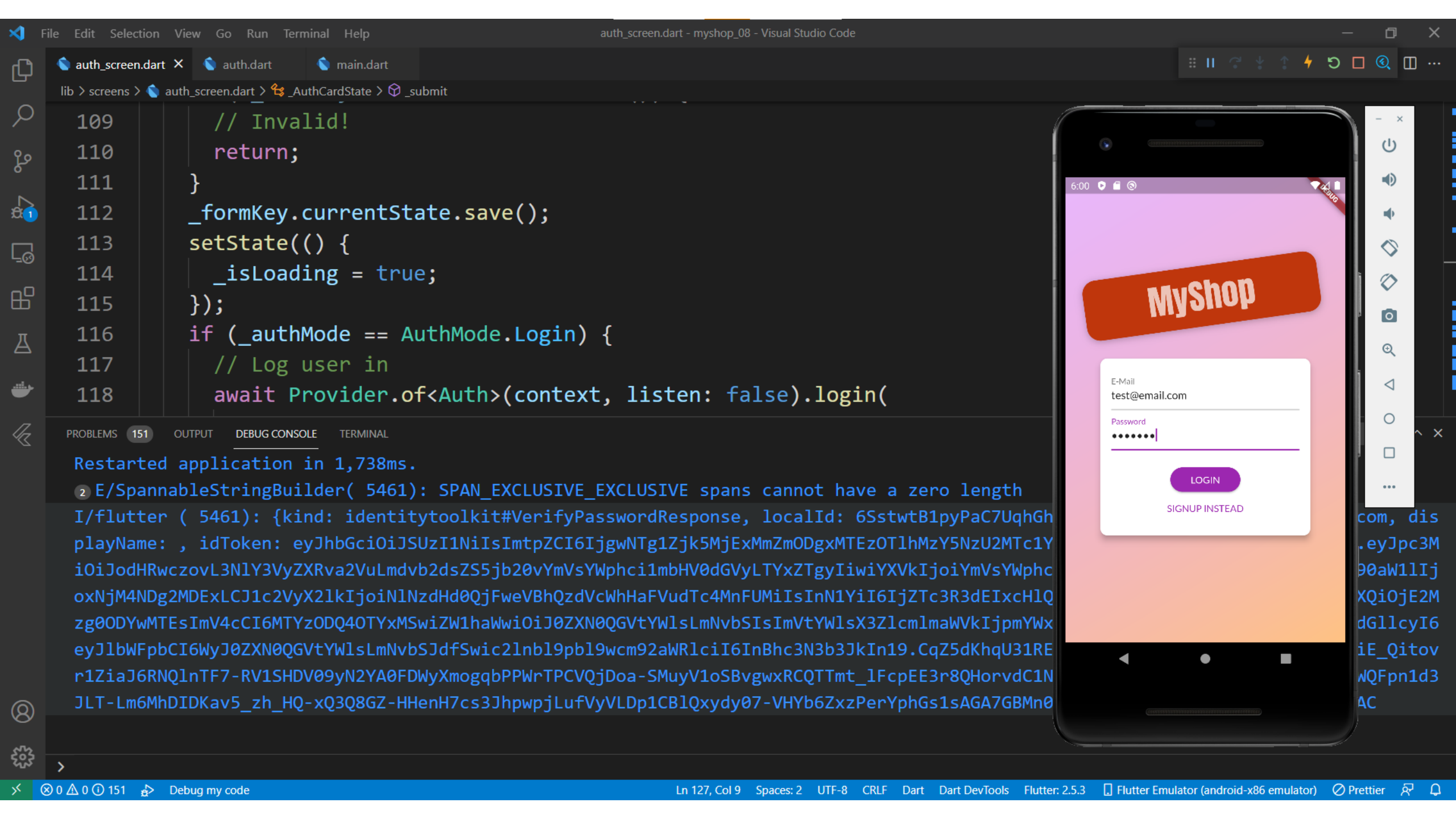
Sample request

```
curl 'https://www.googleapis.com/identitytoolkit/v3/relyingparty/verifyPassword?key=[API_KEY]' \
```


File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > providers > auth.dart > Auth > login
import 'dart:convert';
import 'package:flutter/widgets.dart';
import 'package:http/http.dart' as http;
class Auth with ChangeNotifier {
String _token;
DateTime _expiryDate;
String _userId;
Future<void> _authenticate(
String email, String password, String urlSegment) async {
final url =
'https://www.googleapis.com/identitytoolkit/v3/relyingparty/$urlSegment?key=AIzaSyBNe7FYeI7WHFG9b
final response = await http.post(
Uri.parse(url),
body: json.encode(
{
'email': email,
'password': password,
'returnSecureToken': true,
},
0 0 151
Debug my code
Ln 34, Col 4 (770 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > providers > auth.dart > Auth > login
'https://www.googleapis.com/identitytoolkit/v3/relyingparty/$urlSegment?key=AIzaSyBNe7FYeI7WHFG9b
final response = await http.post(
Uri.parse(url),
body: json.encode(
{
'email': email,
'password': password,
'returnSecureToken': true,
},
),
);
print(json.decode(response.body));
}
Future<void> signup(String email, String password) async {
return _authenticate(email, password, 'signupNewUser');
}
Future<void> login(String email, String password) async {
return _authenticate(email, password, 'verifyPassword');
}
}
Debug my code
Ln 34, Col 4 (770 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState > _submit
109 // Invalid!
110 return;
111 }
112 _formKey.currentState.save();
113 setState(() {
114 _isLoading = true;
115 });
116 if (_authMode == AuthMode.Login) {
117 // Log user in
118 await Provider.of<Auth>(context, listen: false).login(
119 _authData['email'],
120 _authData['password'],
121);
122 } else {
123 // Sign user up
124 await Provider.of<Auth>(context, listen: false).signup(
125 _authData['email'],
126 _authData['password'],
127);
128 }
129 setState(() {
130 _isLoading = false;
Debug my code
Ln 123, Col 1 (209 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState > _submit
109 // Invalid!
110 return;
111 }
112 _formKey.currentState.save();
113 setState(() {
114 _isLoading = true;
115 });
116 if (_authMode == AuthMode.Login) {
117 // Log user in
118 await Provider.of<Auth>(context, listen: false).login(
PROBLEMS 151
OUTPUT
DEBUG CONSOLE
TERMINAL
Restarted application in 1,738ms.
E/SpannableStringBuilder(5461): SPAN_EXCLUSIVE_EXCLUSIVE spans cannot have a zero length
I/flutter (5461): {kind: identitytoolkit#VerifyPasswordResponse, localId: 6SstwtB1pyPaC7UqhGh
displayName: , idToken: eyJhbGciOiJSUzI1NiIsImtpZCI6IjgwNTg1Zjk5MjExMmZmODgxMTEzOTlhMzY5NzU2MTc1Y
iOiJodHRwczovL3NlY3VyZXRva2VuLmdvb2dsZS5jb20vYmVsYWphci1mbHV0dGVyLTYxZTgyIiwiYXVkIjoiYmVsYWphc
oxNjM4NDg2MDExLCJ1c2VyX2lkIjoiNlNzdHd0QjFweVBhQzdVcWhHaFVudTc4MnFUMiIsInN1YiI6IjZTc3R3dEIxcHlQ
zg0ODYwMTEsImV4cCI6MTYzODQ4OTYxMSwiZW1haWwiOiJ0ZXN0QGVtYWlsLmNvbSIsImVtYWlsX3ZlcmlmaWVkIjpmYWx
eyJlbWFpbCI6WyJ0ZXN0QGVtYWlsLmNvbSJdfSwic2lnbl9pbl9wcm92aWRlciI6InBhc3N3b3JkIn19.CqZ5dKhqU31RE
r1ZiaJ6RNQlnTF7-RV1SHDV09yN2YA0FDWyXmogqbPPWrTPCVQjDoa-SMuyV1oSBvgwxRCQTTmt_lFcpEE3r8QHorvdC1N
JLT-Lm6MhDIDKav5_zh_HQ-xQ3Q8GZ-HHenH7cs3JhpwpjLufVyVLDp1CBlQxydy07-VHYb6ZxzPerYphGs1sAGA7GBMn0
com, dis
.eyJpc3M
90aW1lIj
XQiOjE2M
dGllcyI6
iE_Qitov
wQFpn1d3
AC
6:00
DEBUG
MyShop
E-Mail
test@email.com
Password
LOGIN
SIGNUP INSTEAD
Ln 127, Col 9
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier
Debug my code

File Edit Selection View Go Run Terminal Help

auth_screen.dart - myshop_08 - Visual Studio Code

auth_screen.dart | auth.dart | main.dart

lib > screens > auth_screen.dart > _AuthCardState > _submit

```
109       // Invalid!
110       return;
111     }
112     _formKey.currentState.save();
113     setState(() {
114       _isLoading = true;
115     });
116     if (_authMode == AuthMode.Login) {
117       // Log user in
118       await Provider.of<Auth>(context, listen: false).login(
```

PROBLEMS 151 | OUTPUT | DEBUG CONSOLE | TERMINAL

```
W/IInputConnectionWrapper( 5461): getSelectedText on inactive InputConnection
W/IInputConnectionWrapper( 5461): getTextAfterCursor on inactive InputConnection
I/flutter ( 5461): {error: {code: 400, message: EMAIL_NOT_FOUND, errors: [{message: EMAIL_NOT_FO
d}]}}
```

0 0 151 Debug my code Ln 127, Col 9 Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

HANDLING AUTHENTICATION ERRORS

Sample response

```
{
  "kind": "identitytoolkit#SignupNewUserResponse",
  "idToken": "[ID_TOKEN]",
  "email": "[user@example.com]",
  "refreshToken": "[REFRESH_TOKEN]",
  "expiresIn": "3600",
  "localId": "tRcfmLH7..."
}
```

Common error codes

- EMAIL_EXISTS: The email address is already in use by another account.
- OPERATION_NOT_ALLOWED: Password sign-in is disabled for this project.
- TOO_MANY_ATTEMPTS_TRY_LATER: We have blocked all requests from this device due to unusual activity. Try again later.

Sign in with email / password

You can sign in a user with an email and password by issuing an HTTP `POST` request to the Auth `verifyPassword` endpoint.

Method: POST

Content-Type: application/json

Endpoint

C++
Unity
Cloud Functions
Admin SDK
REST
Set up and manage a project β
Realtime Database
Realtime Database User Auth
Authentication and User Management
Cloud Firestore
Hosting
Remote Config
Dynamic Links
Test Lab
RPC
Security
FCM App Server Protocols
App Indexing
Gradle

Sample response

```
{
  "kind": "identitytoolkit#VerifyPasswordResponse",
  "localId": "ZY1rJK0eYLg...",
  "email": "[user@example.com]",
  "displayName": "",
  "idToken": "[ID_TOKEN]",
  "registered": true,
  "refreshToken": "[REFRESH_TOKEN]",
  "expiresIn": "3600"
}
```

Common error codes

- EMAIL_NOT_FOUND: There is no user record corresponding to this identifier. The user may have been deleted.
- INVALID_PASSWORD: The password is invalid or the user does not have a password.
- USER_DISABLED: The user account has been disabled by an administrator.

Sign in anonymously

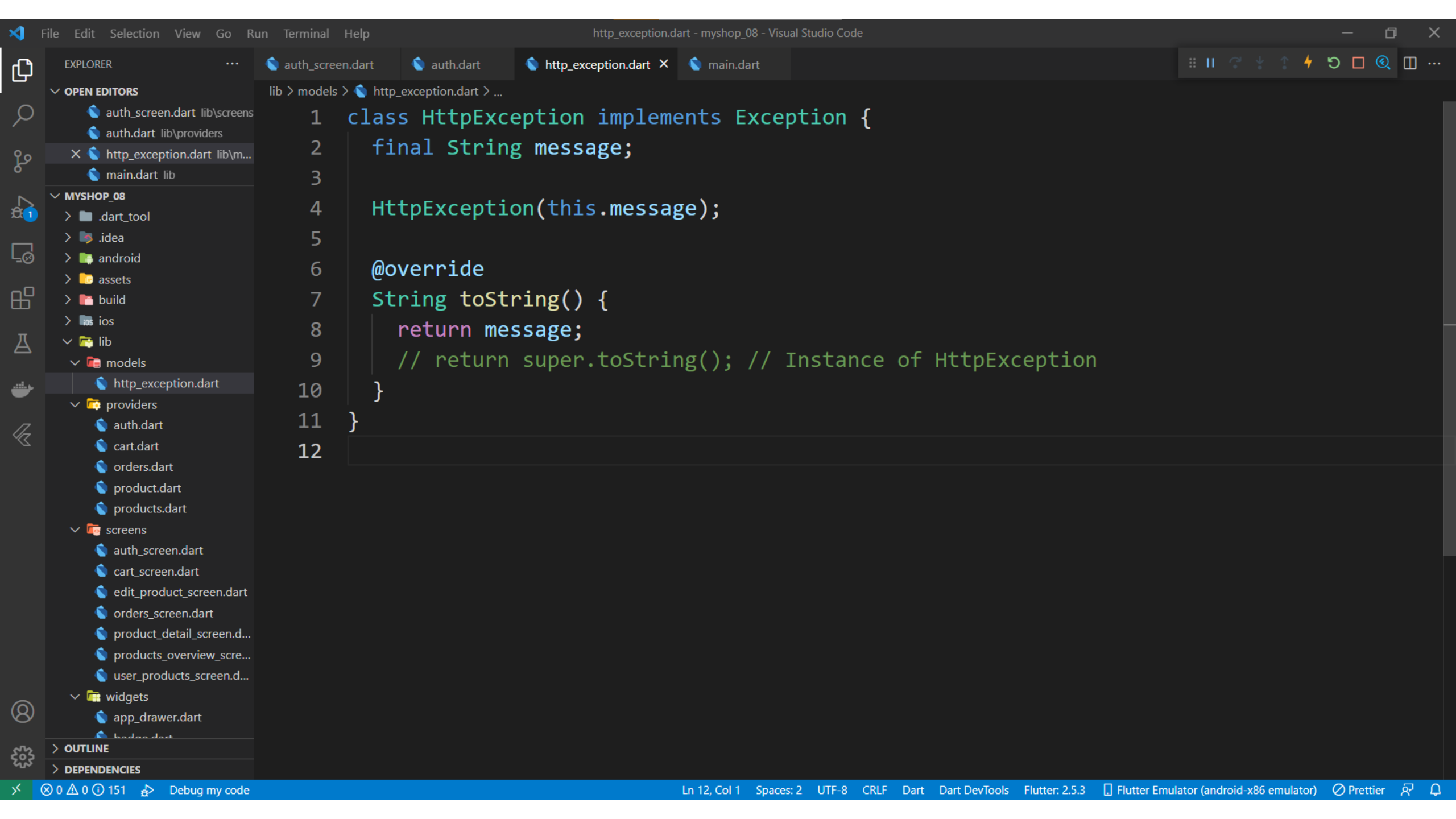
You can sign in a user anonymously by issuing an HTTP `POST` request to the Auth `signupNewUser` endpoint.

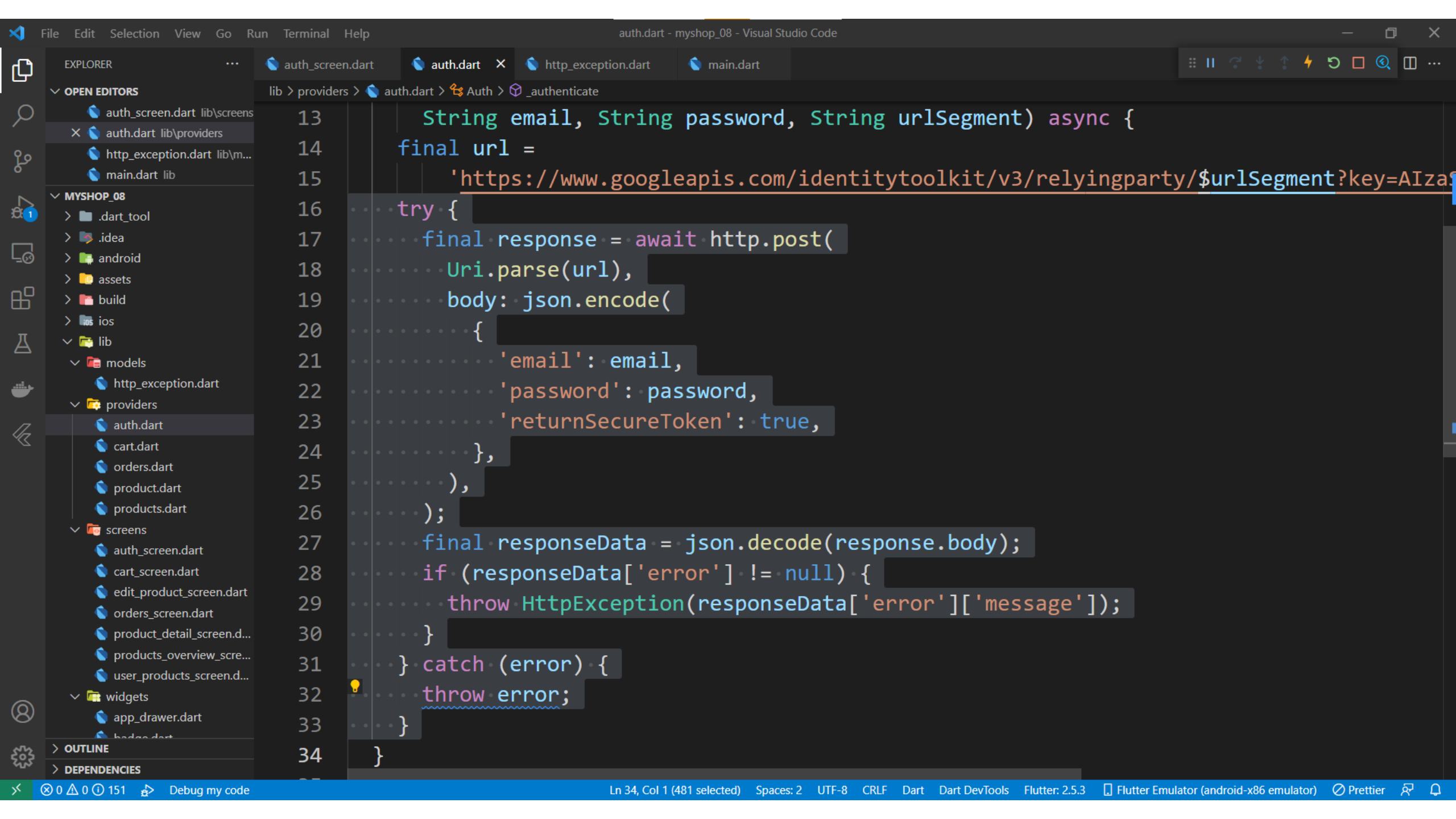
Method: POST

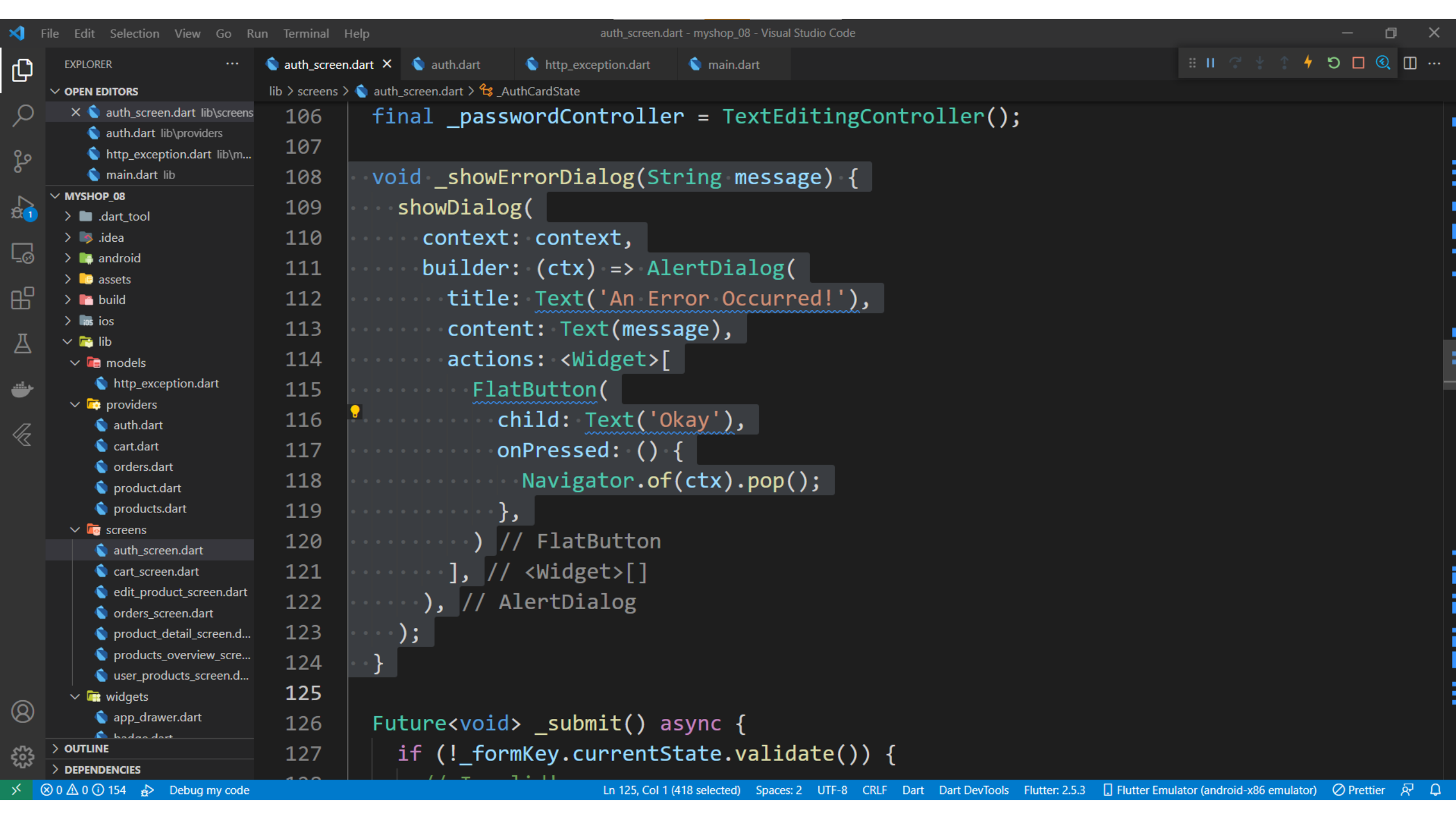
Content-Type: application/json

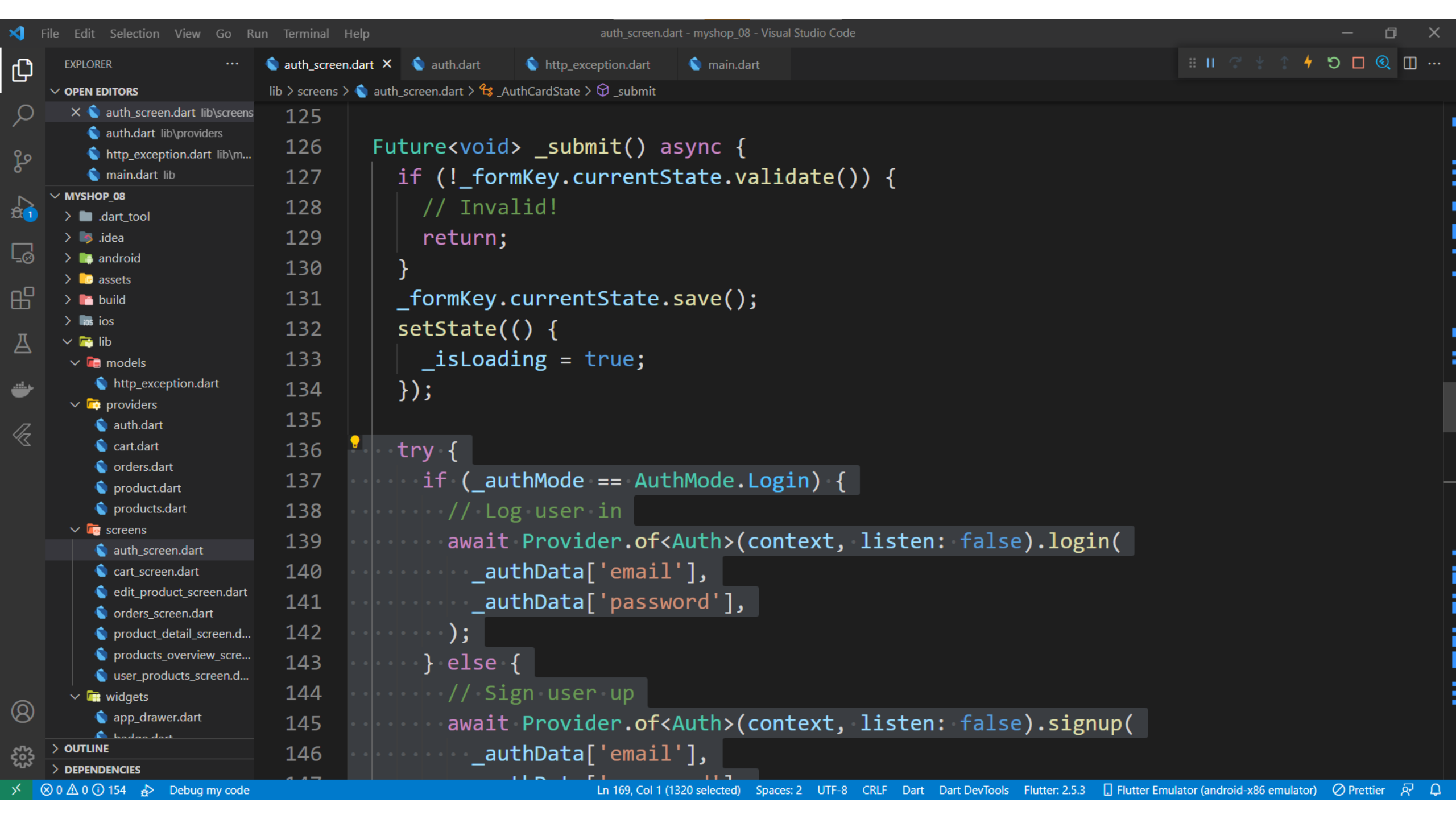
Endpoint

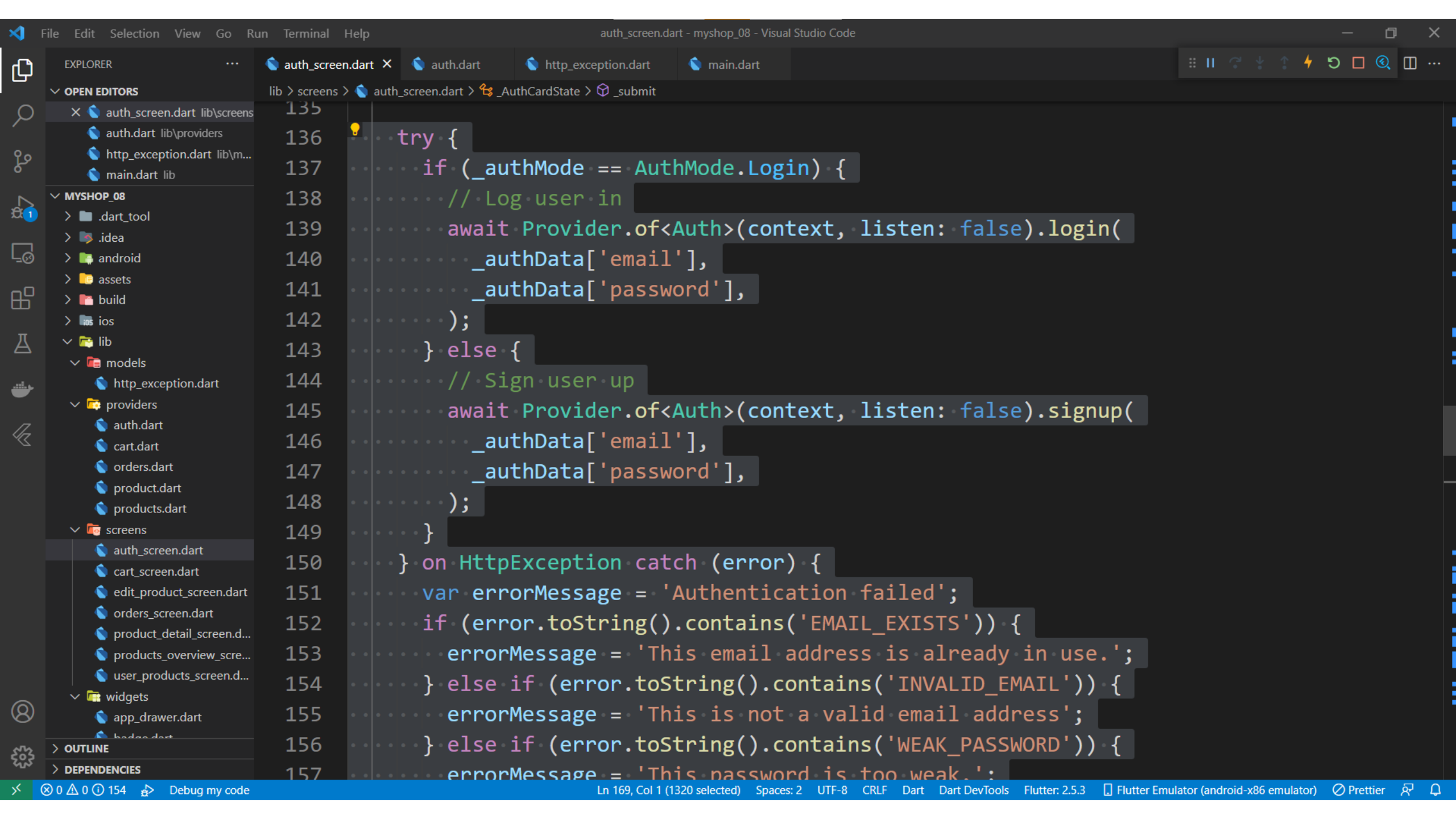
```
https://www.googleapis.com/identitytoolkit/v3/relyingparty/signupNewUser?key=[API_KEY]
```

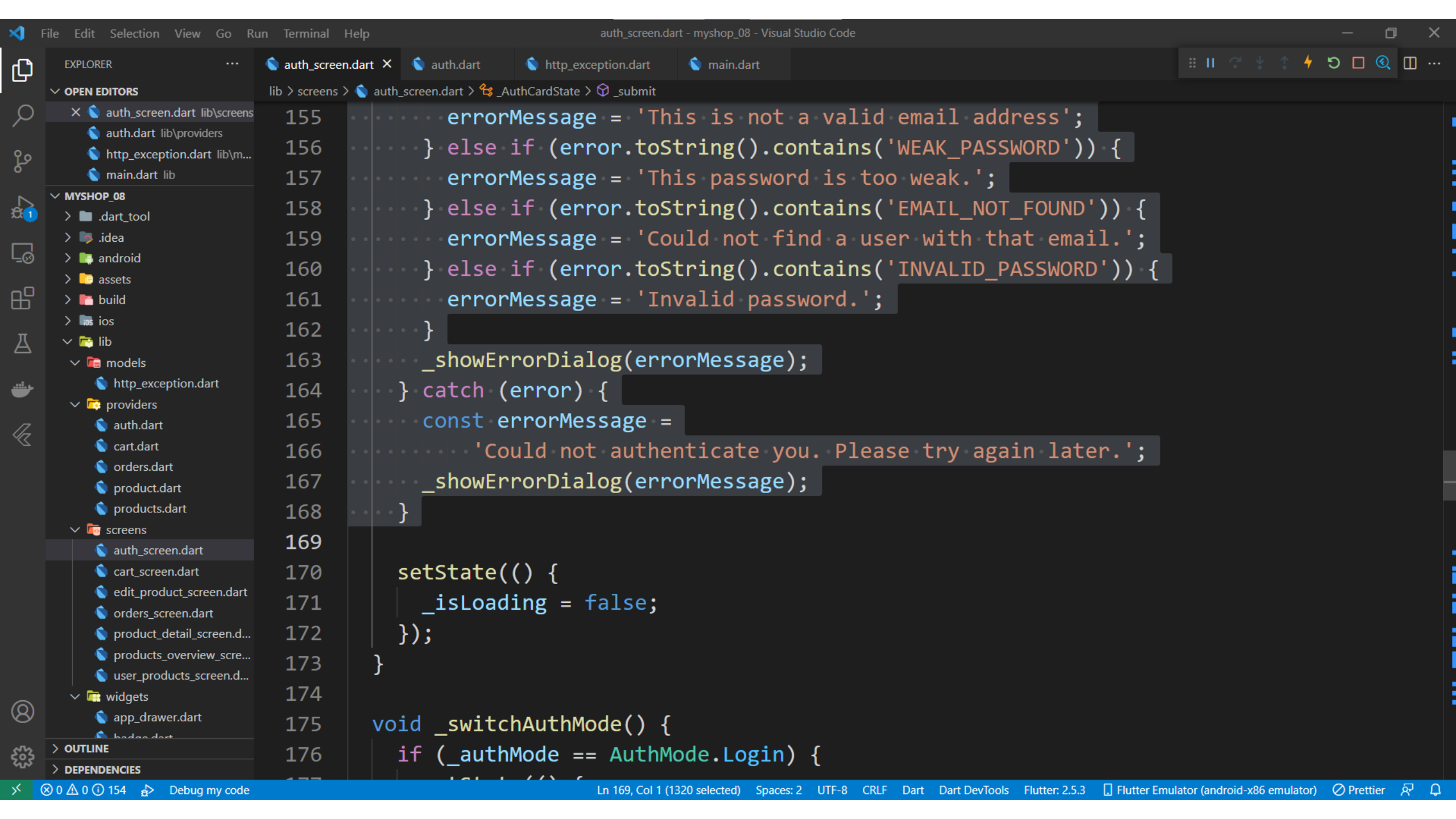

File Edit Selection View Go Run Terminal Help
http_exception.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart
lib > models > http_exception.dart > ...
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
OUTLINE
DEPENDENCIES
1 class HttpException implements Exception {
2 final String message;
3
4 HttpException(this.message);
5
6 @override
7 String toString() {
8 return message;
9 // return super.toString(); // Instance of HttpException
10 }
11 }
12
0 0 151
Debug my code
Ln 12, Col 1
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart
lib > providers > auth.dart > Auth > _authenticate
String email, String password, String urlSegment) async {
final url =
'https://www.googleapis.com/identitytoolkit/v3/relyingparty/$urlSegment?key=AIza
try {
final response = await http.post(
Uri.parse(url),
body: json.encode(
{
'email': email,
'password': password,
'returnSecureToken': true,
},
),
);
final responseData = json.decode(response.body);
if (responseData['error'] != null) {
throw HttpException(responseData['error']['message']);
}
} catch (error) {
throw error;
}
}
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
OUTLINE
DEPENDENCIES
Debug my code
Ln 34, Col 1 (481 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

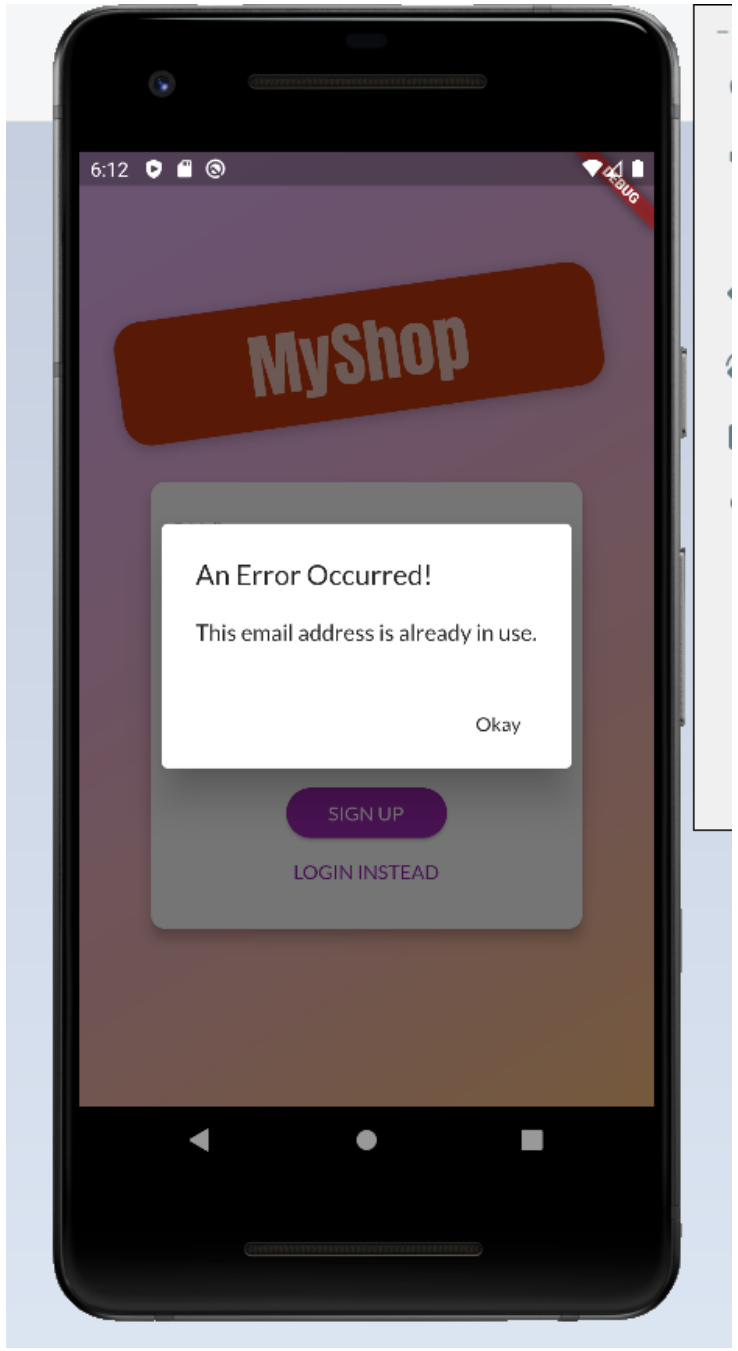

File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
OUTLINE
DEPENDENCIES
106 final _passwordController = TextEditingController();
107
108 void _showErrorDialog(String message) {
109 showDialog(
110 context: context,
111 builder: (ctx) => AlertDialog(
112 title: Text('An Error Occurred!'),
113 content: Text(message),
114 actions: <Widget>[
115 FlatButton(
116 child: Text('Okay'),
117 onPressed: () {
118 Navigator.of(ctx).pop();
119 },
120) // FlatButton
121], // <Widget>[]
122), // AlertDialog
123);
124 }
125
126 Future<void> _submit() async {
127 if (!_formKey.currentState.validate()) {
0 0 154
Debug my code
Ln 125, Col 1 (418 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

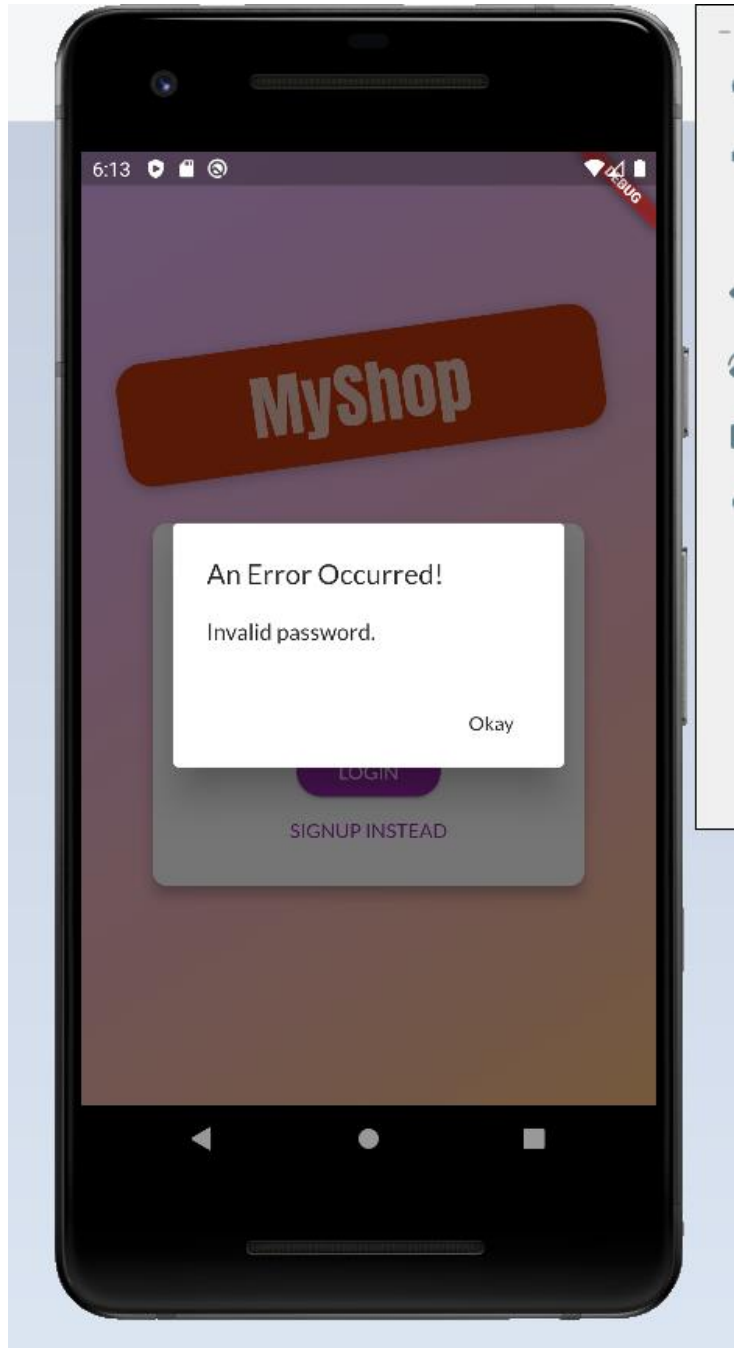

File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState > _submit
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
OUTLINE
DEPENDENCIES
125
126 Future<void> _submit() async {
127 if (!_formKey.currentState.validate()) {
128 // Invalid!
129 return;
130 }
131 _formKey.currentState.save();
132 setState(() {
133 _isLoading = true;
134 });
135
136 try {
137 if (_authMode == AuthMode.Login) {
138 // Log user in
139 await Provider.of<Auth>(context, listen: false).login(
140 _authData['email'],
141 _authData['password'],
142);
143 } else {
144 // Sign user up
145 await Provider.of<Auth>(context, listen: false).signup(
146 _authData['email'],
0 0 154
Debug my code
Ln 169, Col 1 (1320 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState > _submit
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
OUTLINE
DEPENDENCIES
135
136 try {
137 if (_authMode == AuthMode.Login) {
138 // Log user in
139 await Provider.of<Auth>(context, listen: false).login(
140 _authData['email'],
141 _authData['password'],
142);
143 } else {
144 // Sign user up
145 await Provider.of<Auth>(context, listen: false).signup(
146 _authData['email'],
147 _authData['password'],
148);
149 }
150 } on HttpException catch (error) {
151 var errorMessage = 'Authentication failed';
152 if (error.toString().contains('EMAIL_EXISTS')) {
153 errorMessage = 'This email address is already in use.';
154 } else if (error.toString().contains('INVALID_EMAIL')) {
155 errorMessage = 'This is not a valid email address';
156 } else if (error.toString().contains('WEAK_PASSWORD')) {
157 errorMessage = 'This password is too weak.';
Debug my code
Ln 169, Col 1 (1320 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

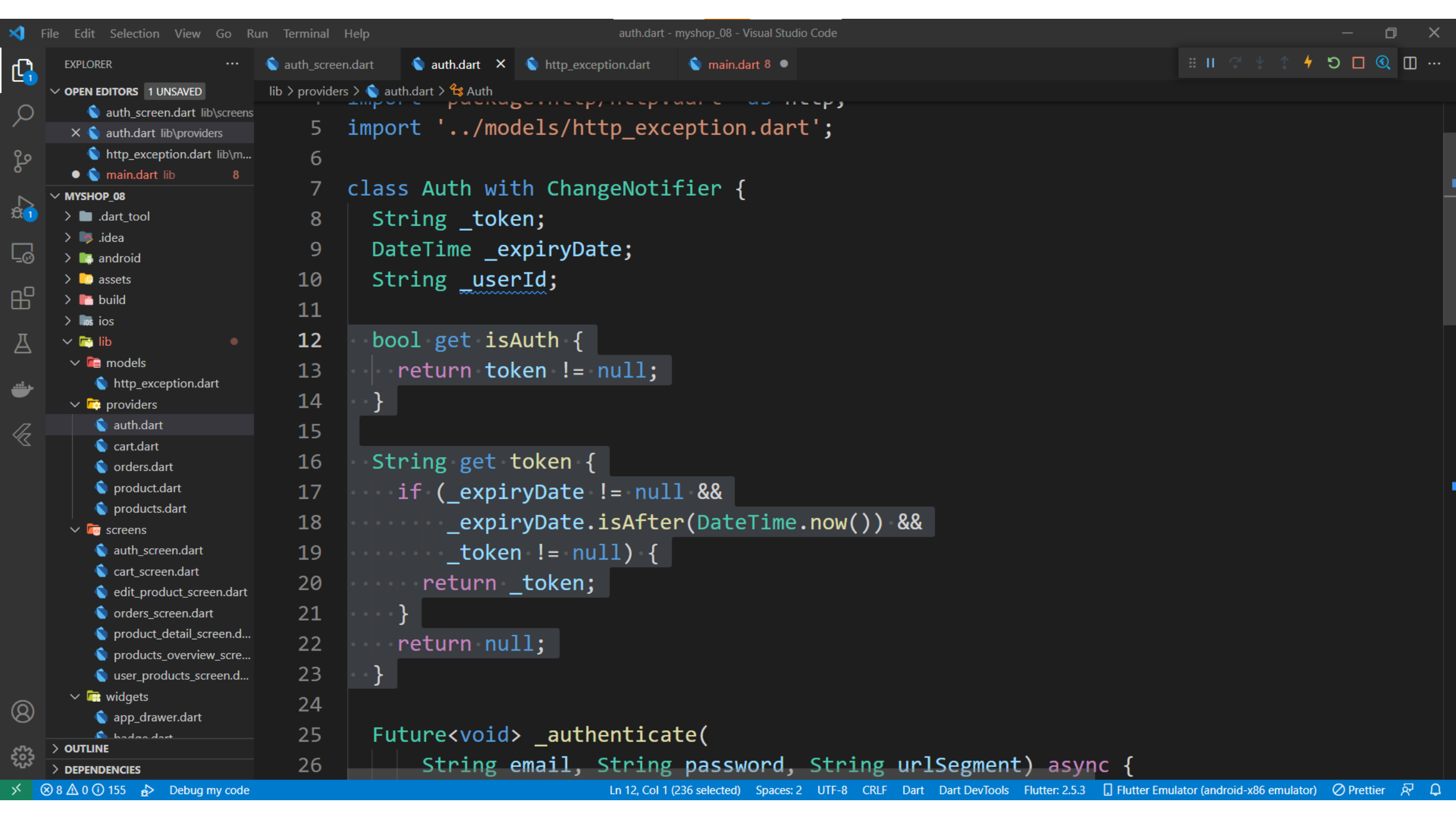

File Edit Selection View Go Run Terminal Help
auth_screen.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart
lib > screens > auth_screen.dart > _AuthCardState > _submit
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
OUTLINE
DEPENDENCIES
155 errorMessage = 'This is not a valid email address';
156 } else if (error.toString().contains('WEAK_PASSWORD')) {
157 errorMessage = 'This password is too weak.';
158 } else if (error.toString().contains('EMAIL_NOT_FOUND')) {
159 errorMessage = 'Could not find a user with that email.';
160 } else if (error.toString().contains('INVALID_PASSWORD')) {
161 errorMessage = 'Invalid password.';
162 }
163 _showErrorDialog(errorMessage);
164 } catch (error) {
165 const errorMessage =
166 'Could not authenticate you. Please try again later.';
167 _showErrorDialog(errorMessage);
168 }
169
170 setState(() {
171 _isLoading = false;
172 });
173 }
174
175 void _switchAuthMode() {
176 if (_authMode == AuthMode.Login) {
0 0 154
Debug my code
Ln 169, Col 1 (1320 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

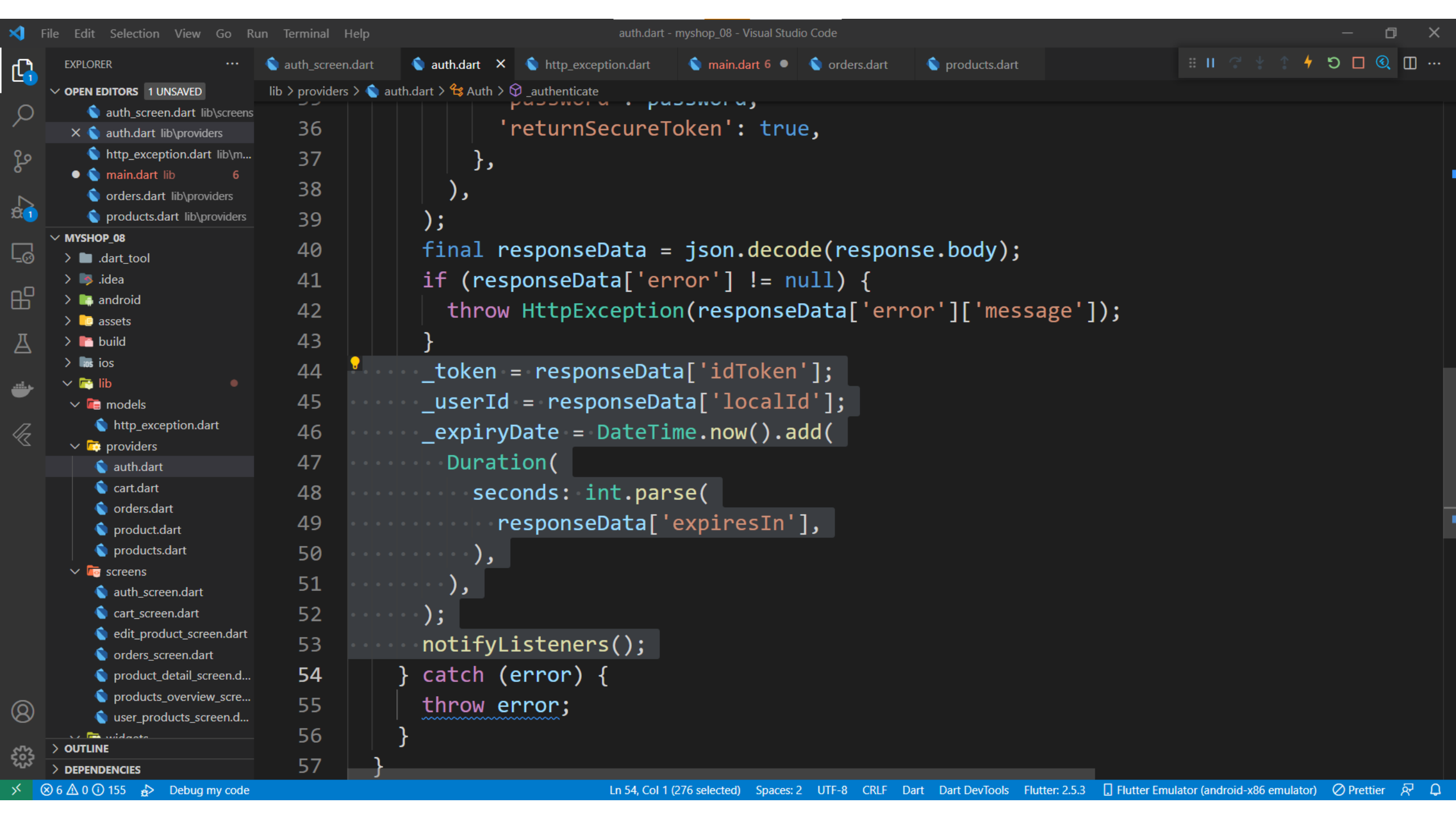

6:11
DEBUG
MyShop
An Error Occurred!
Could not find a user with that email.
Okay
LOGIN
SIGNUP INSTEAD

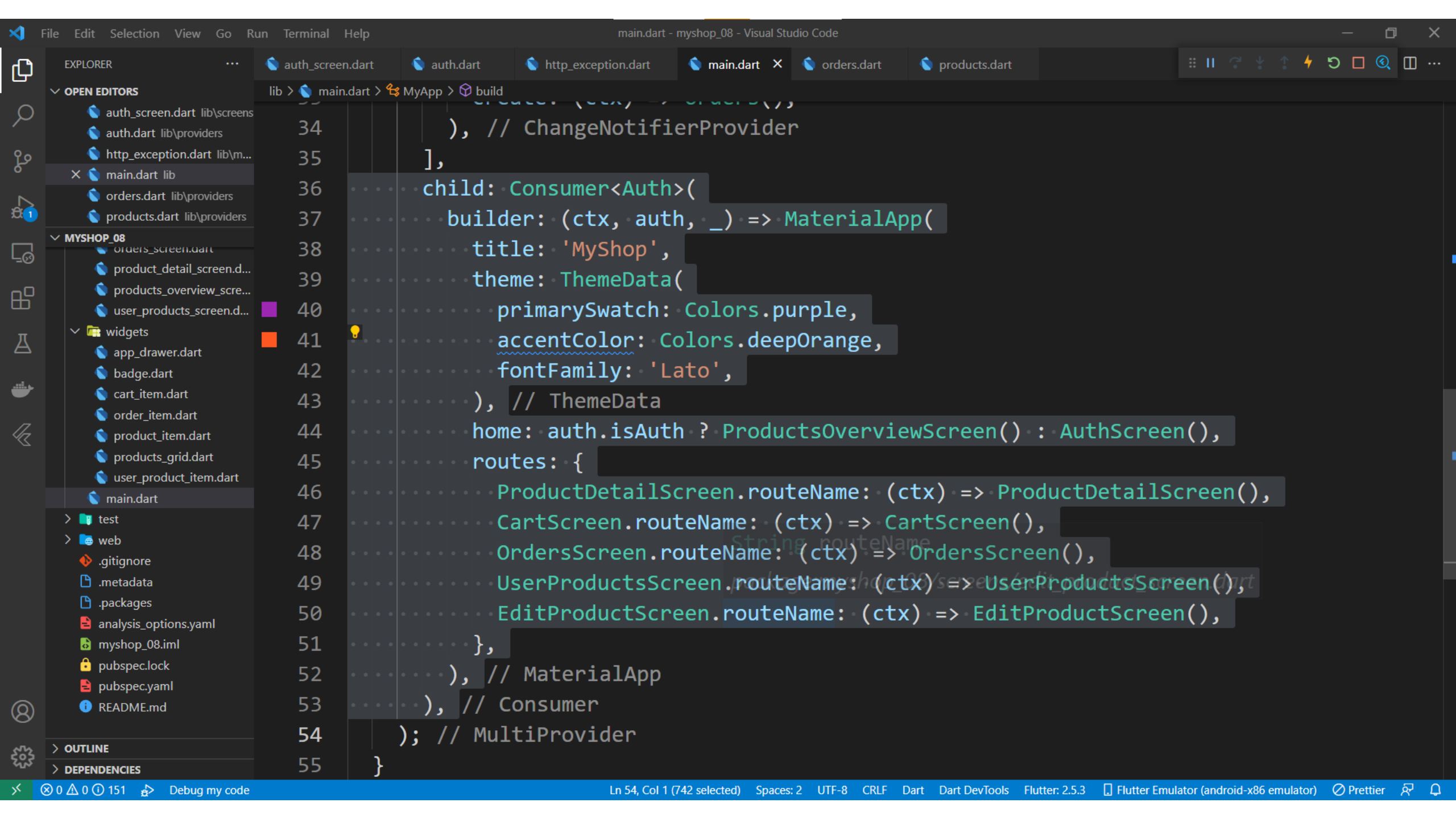

6:12
DEBUG
MyShop
An Error Occurred!
This email address is already in use.
Okay
SIGN UP
LOGIN INSTEAD

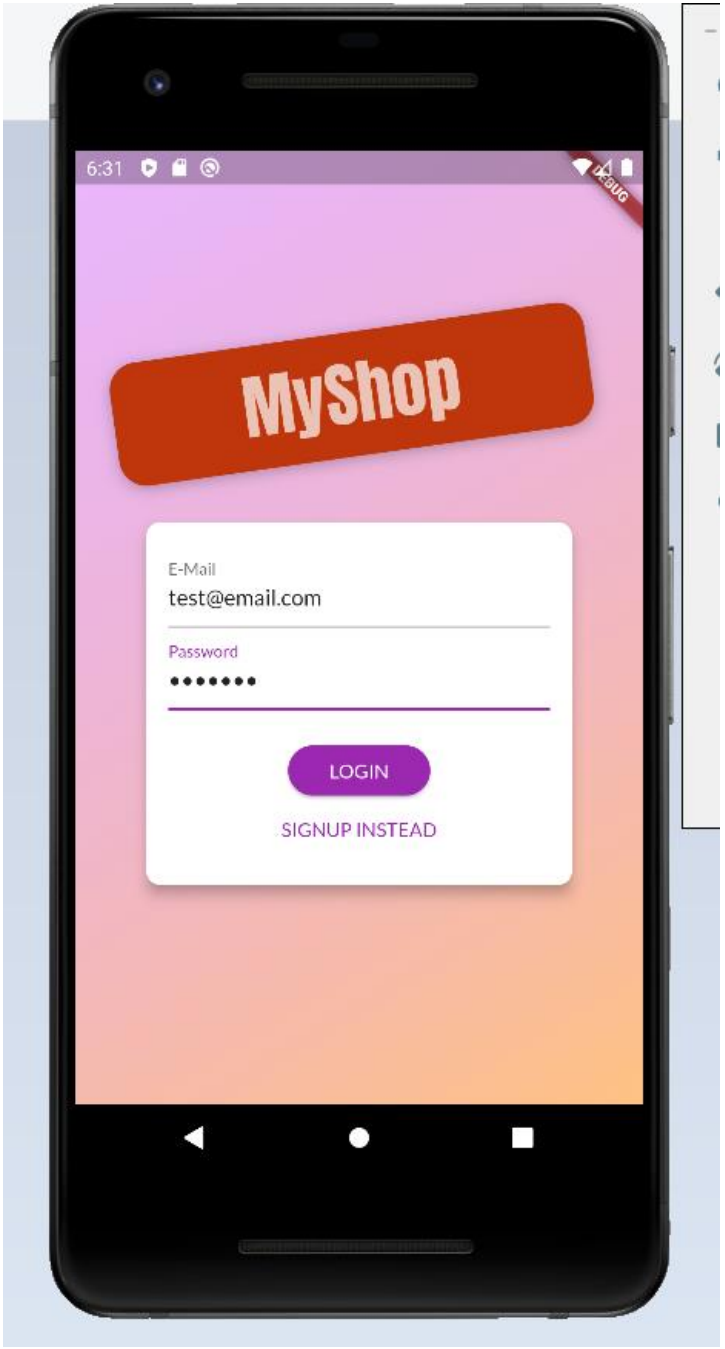

6:13
DEBUG
MyShop
An Error Occurred!
Invalid password.
Okay
LOGIN
SIGNUP INSTEAD

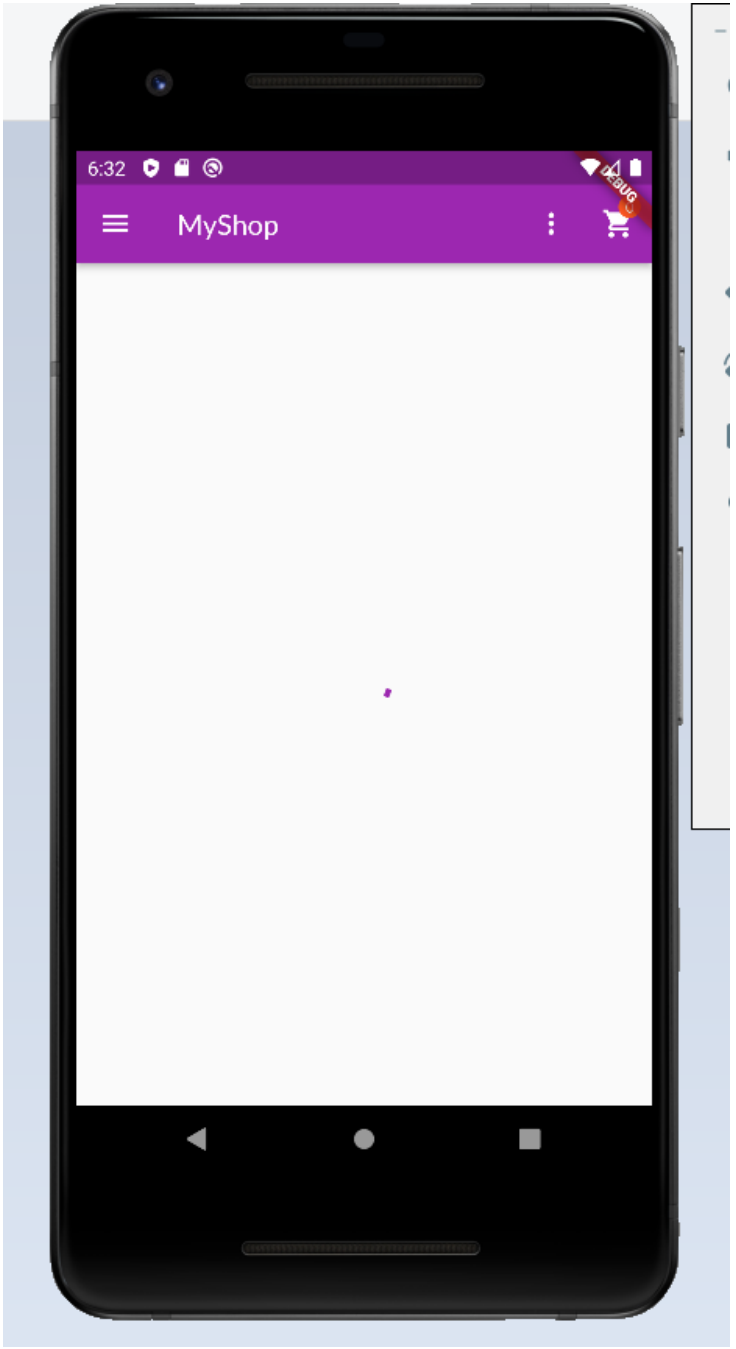
MANAGING THE AUTH TOKEN LOCALLY (IN THE APP)


File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart 8
lib > providers > auth.dart > Auth
OPEN EDITORS 1 UNSAVED
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib 8
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
OUTLINE
DEPENDENCIES
5 import '../models/http_exception.dart';
6
7 class Auth with ChangeNotifier {
8 String _token;
9 DateTime _expiryDate;
10 String _userId;
11
12 bool get isAuth {
13 return token != null;
14 }
15
16 String get token {
17 if (_expiryDate != null &&
18 _expiryDate.isAfter(DateTime.now()) &&
19 _token != null) {
20 return _token;
21 }
22 return null;
23 }
24
25 Future<void> _authenticate(
26 String email, String password, String urlSegment) async {
8 0 155
Debug my code
Ln 12, Col 1 (236 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

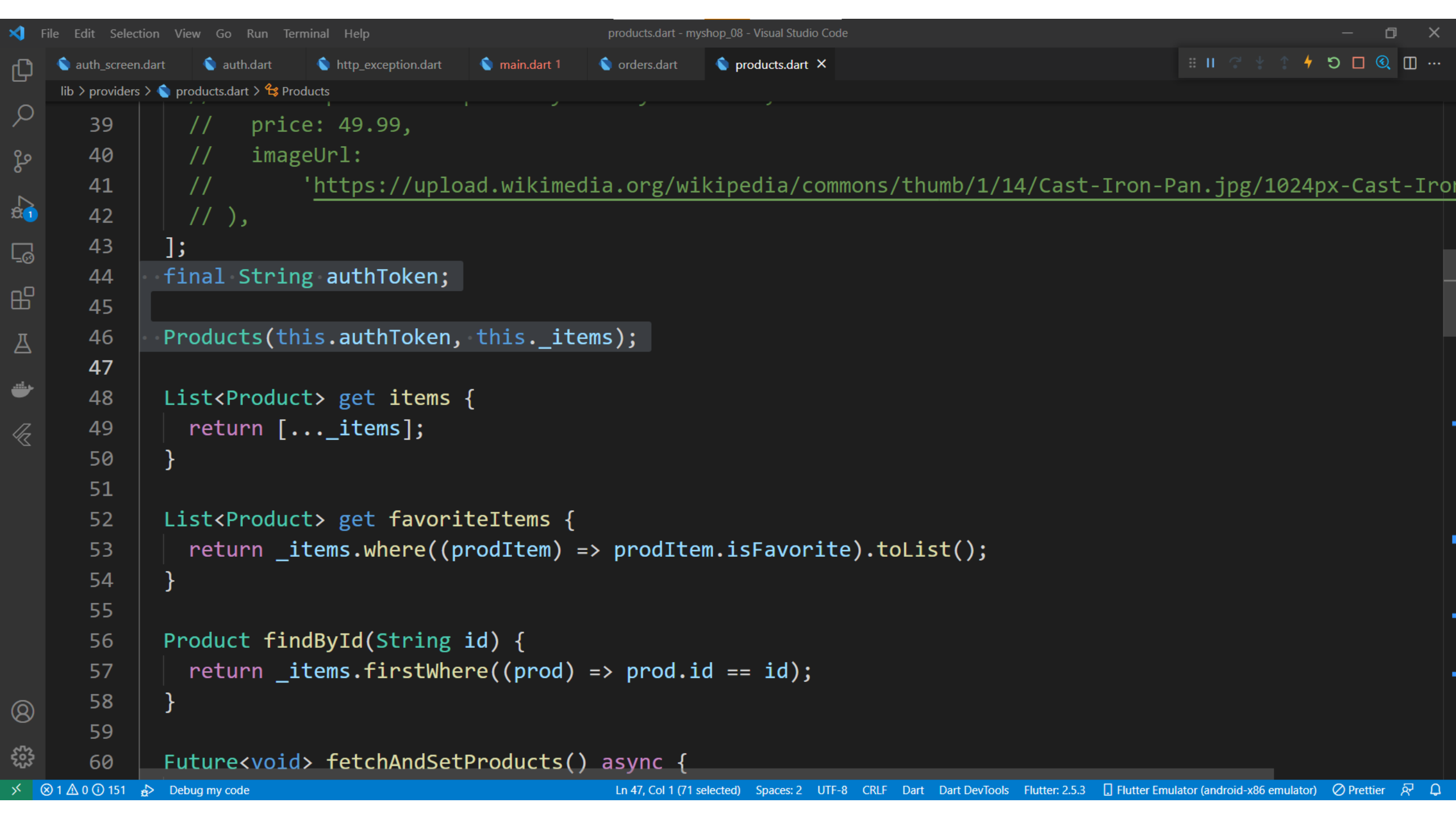

File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart 6
orders.dart
products.dart
lib > providers > auth.dart > Auth > _authenticate
OPEN EDITORS 1 UNSAVED
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib 6
orders.dart lib\providers
products.dart lib\providers
MYSHOP_08
.dart_tool
.idea
android
assets
build
ios
lib
models
http_exception.dart
providers
auth.dart
cart.dart
orders.dart
product.dart
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
OUTLINE
DEPENDENCIES
'returnSecureToken': true,
},
),
);
final responseData = json.decode(response.body);
if (responseData['error'] != null) {
throw HttpException(responseData['error']['message']);
}
_token = responseData['idToken'];
_userId = responseData['localId'];
_expiryDate = DateTime.now().add(
Duration(
seconds: int.parse(
responseData['expiresIn'],
),
),
);
notifyListeners();
} catch (error) {
throw error;
}
}
Ln 54, Col 1 (276 selected) Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier
Debug my code

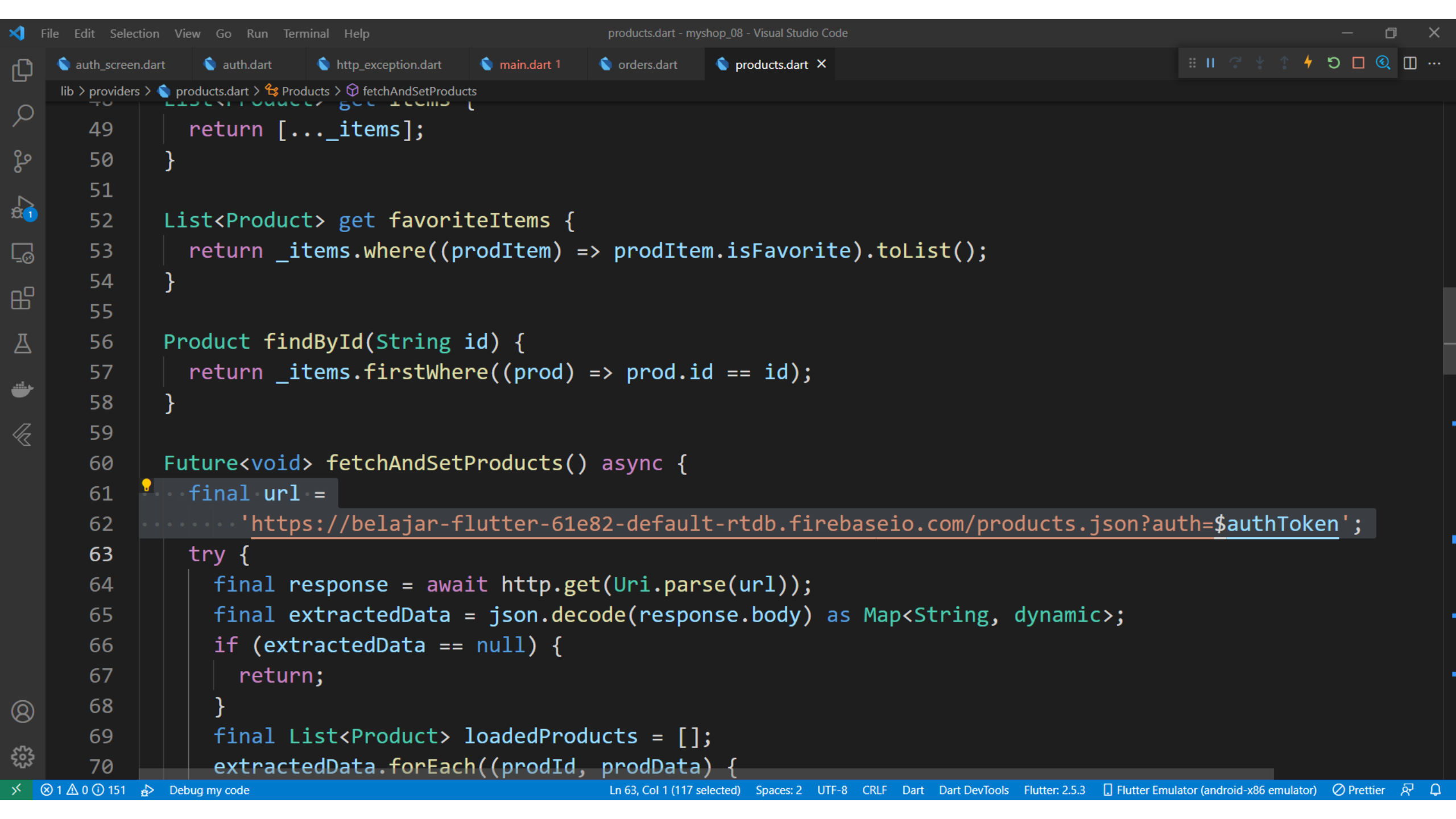

File Edit Selection View Go Run Terminal Help
main.dart - myshop_08 - Visual Studio Code
EXPLORER
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib
orders.dart lib\providers
products.dart lib\providers
MYSHOP_08
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
badge.dart
cart_item.dart
order_item.dart
product_item.dart
products_grid.dart
user_product_item.dart
main.dart
test
web
.gitignore
.metadata
.packages
analysis_options.yaml
myshop_08.iml
pubspec.lock
pubspec.yaml
README.md
OUTLINE
DEPENDENCIES
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
lib > main.dart > MyApp > build
34), // ChangeNotifierProvider
35],
36 child: Consumer<Auth>(
37 builder: (ctx, auth, _) => MaterialApp(
38 title: 'MyShop',
39 theme: ThemeData(
40 primarySwatch: Colors.purple,
41 accentColor: Colors.deepOrange,
42 fontFamily: 'Lato',
43), // ThemeData
44 home: auth.isAuth ? ProductsOverviewScreen() : AuthScreen(),
45 routes: {
46 ProductDetailScreen.routeName: (ctx) => ProductDetailScreen(),
47 CartScreen.routeName: (ctx) => CartScreen(),
48 OrdersScreen.routeName: (ctx) => OrdersScreen(),
49 UserProductsScreen.routeName: (ctx) => UserProductsScreen(),
50 EditProductScreen.routeName: (ctx) => EditProductScreen(),
51 },
52), // MaterialApp
53), // Consumer
54); // MultiProvider
55 }
Ln 54, Col 1 (742 selected) Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier
Debug my code

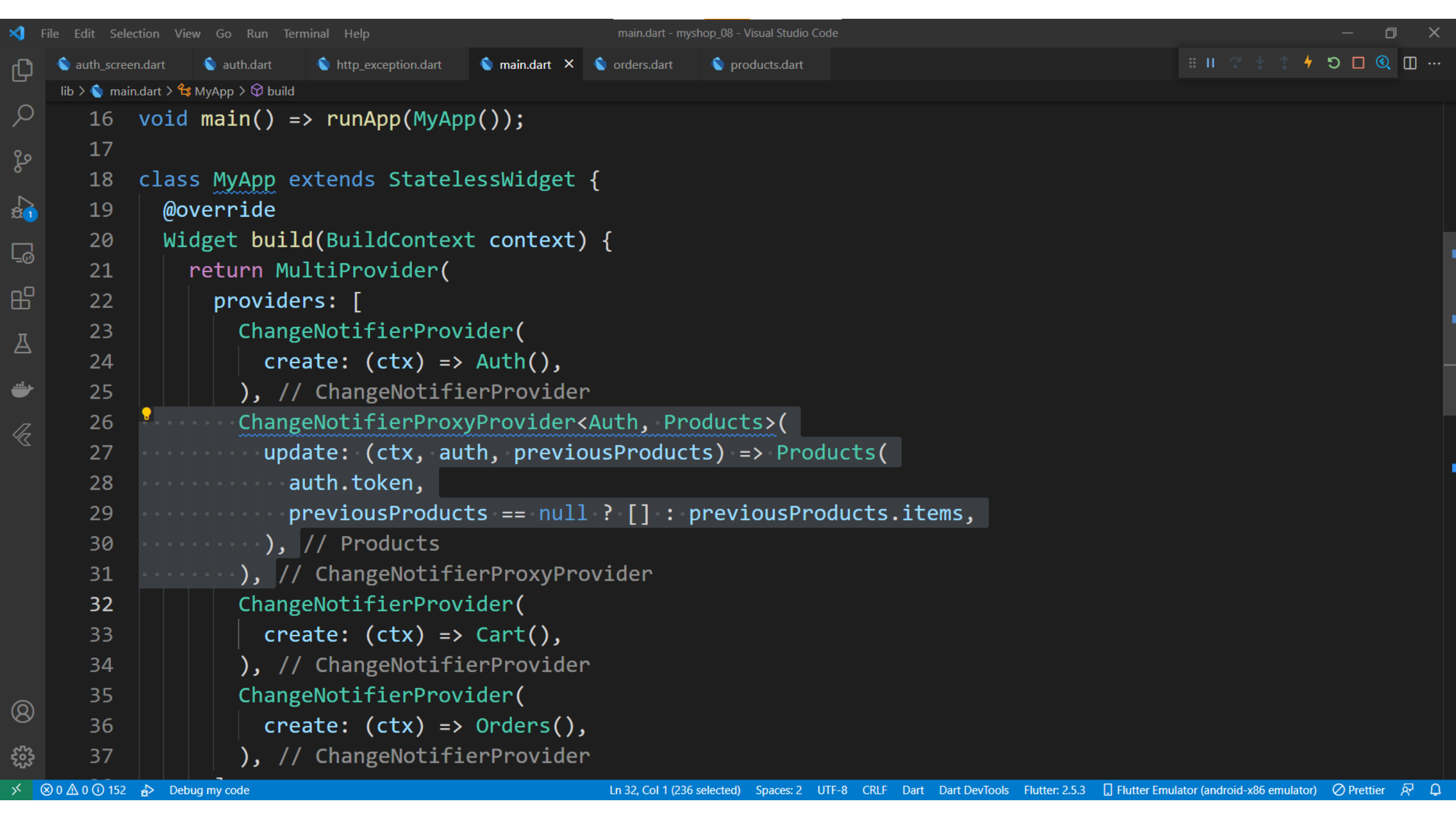

6:31
DEBUG
MyShop
E-Mail
test@email.com
Password
LOGIN
SIGNUP INSTEAD

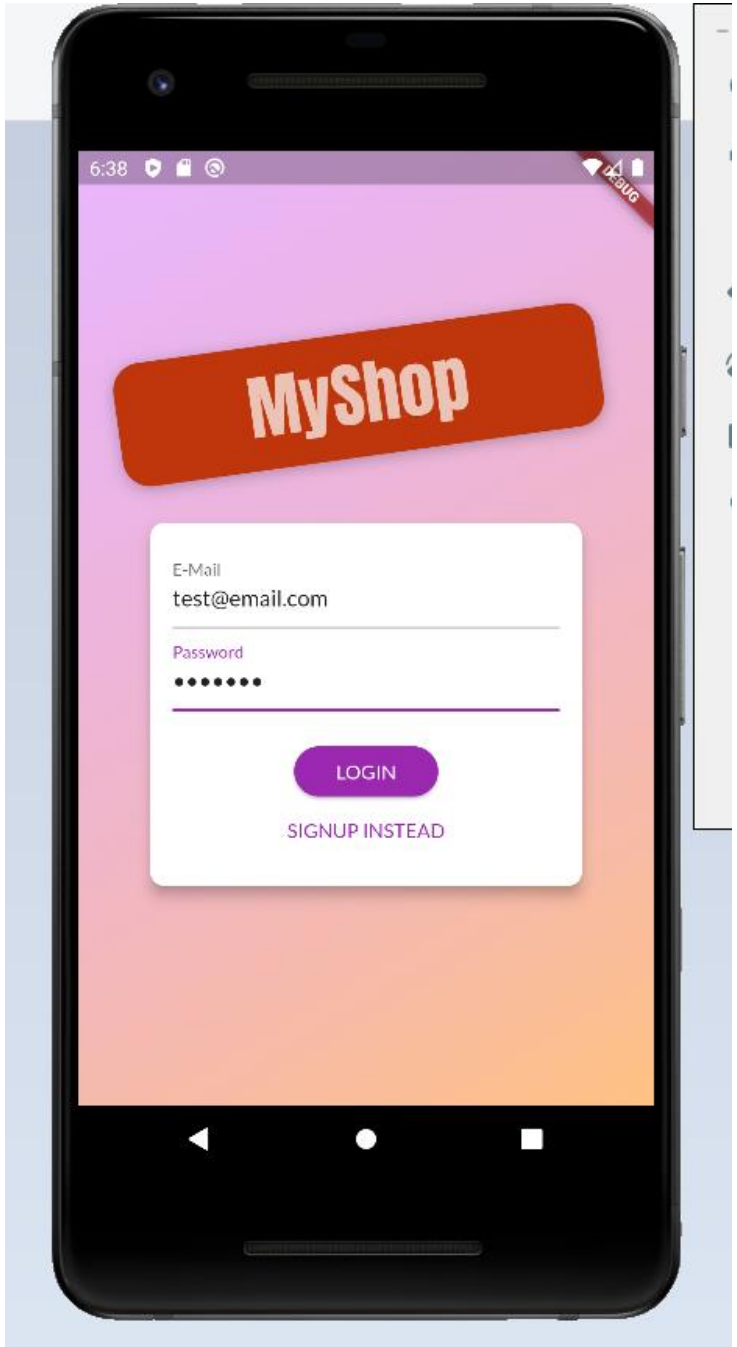

6:32
DEBUG
MyShop

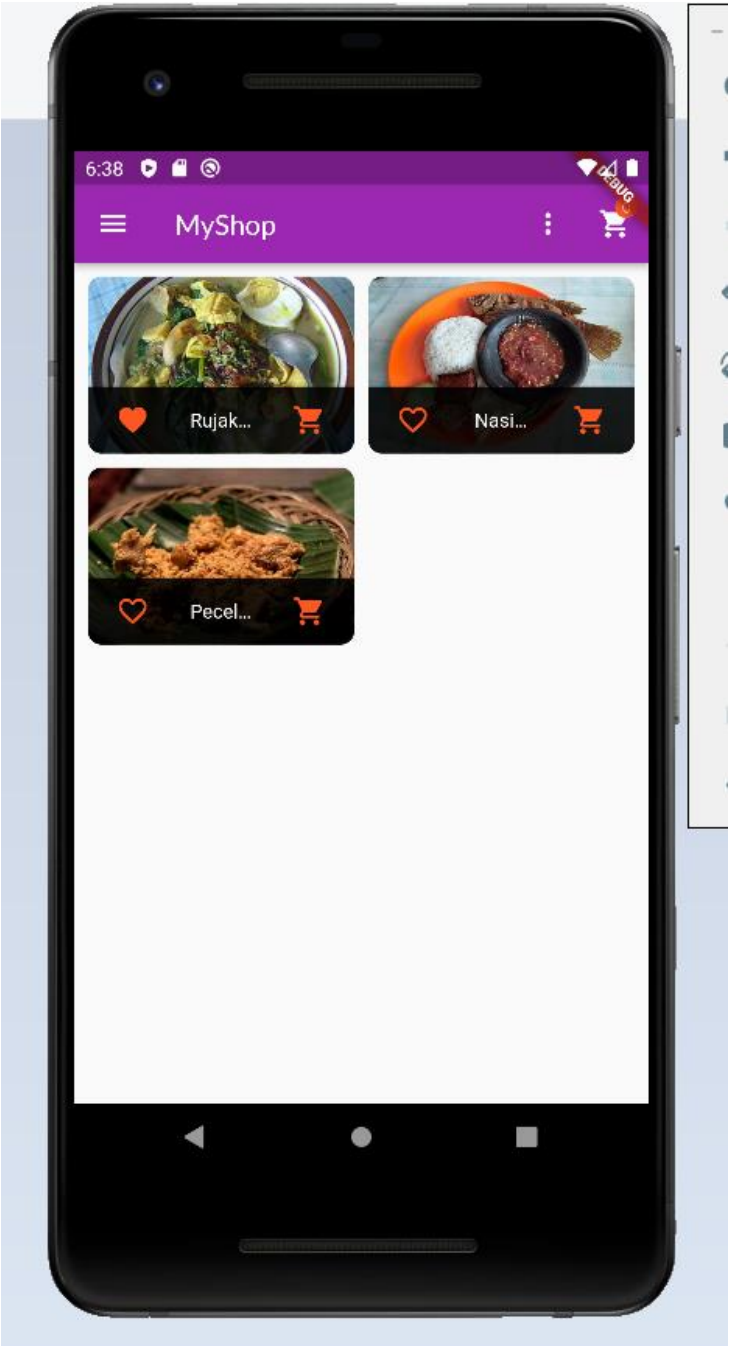
USING THE PROXYPROVIDER AND ATTACHING THE TOKEN TO OUTGOING


File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
lib > providers > products.dart > Products
39 // price: 49.99,
40 // imageUrl:
41 // 'https://upload.wikimedia.org/wikipedia/commons/thumb/1/14/Cast-Iron-Pan.jpg/1024px-Cast-Iron
42 //),
43];
44 final String authToken;
45
46 Products(this.authToken, this._items);
47
48 List<Product> get items {
49 return [..._items];
50 }
51
52 List<Product> get favoriteItems {
53 return _items.where((prodItem) => prodItem.isFavorite).toList();
54 }
55
56 Product findById(String id) {
57 return _items.firstWhere((prod) => prod.id == id);
58 }
59
60 Future<void> fetchAndSetProducts() async {
Debug my code
Ln 47, Col 1 (71 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

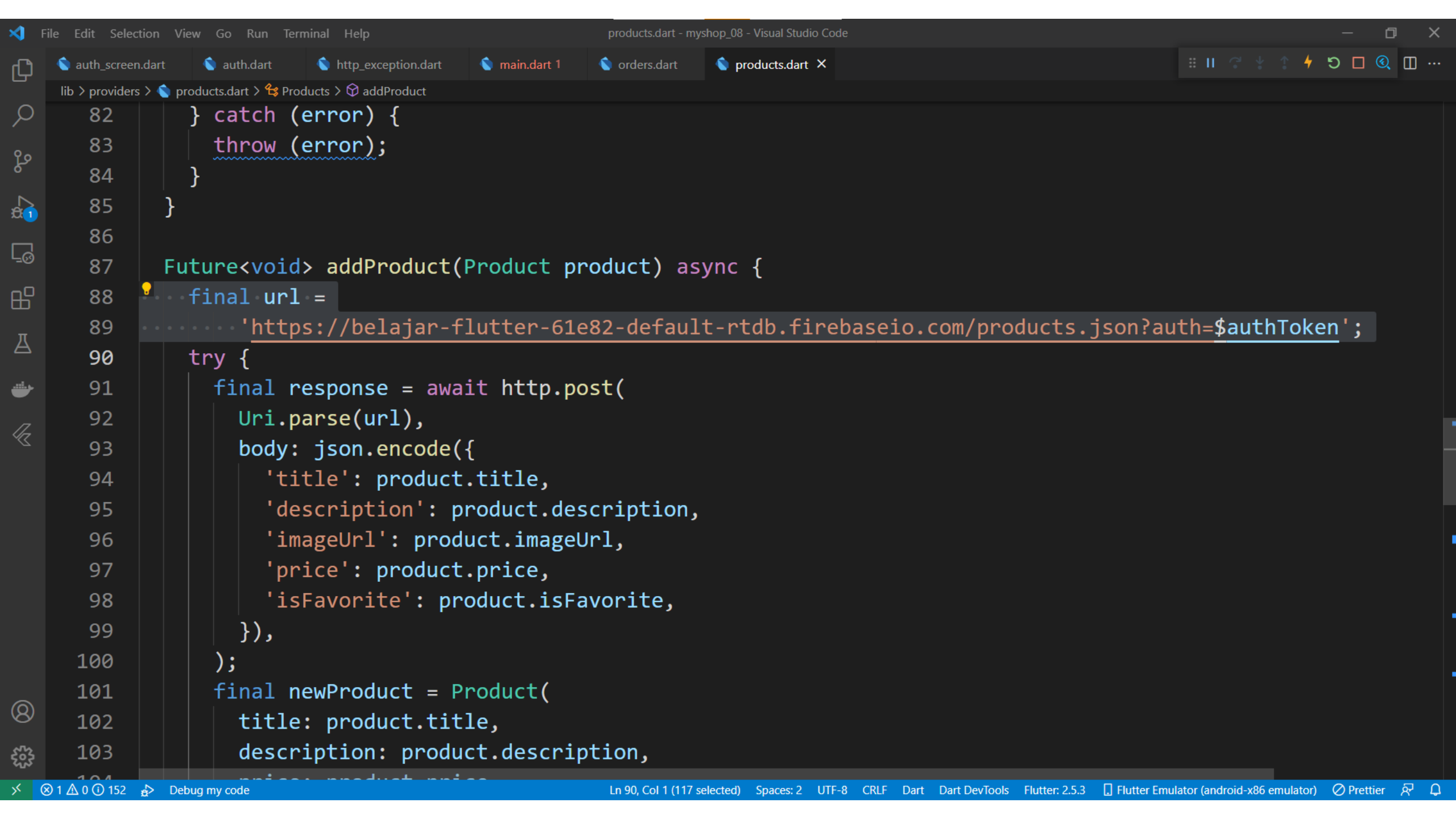

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
lib > providers > products.dart > Products > fetchAndSetProducts
49 return [..._items];
50 }
51
52 List<Product> get favoriteItems {
53 return _items.where((prodItem) => prodItem.isFavorite).toList();
54 }
55
56 Product findById(String id) {
57 return _items.firstWhere((prod) => prod.id == id);
58 }
59
60 Future<void> fetchAndSetProducts() async {
61 final url =
62 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken';
63 try {
64 final response = await http.get(Uri.parse(url));
65 final extractedData = json.decode(response.body) as Map<String, dynamic>;
66 if (extractedData == null) {
67 return;
68 }
69 final List<Product> loadedProducts = [];
70 extractedData.forEach((prodId, prodData) {
Debug my code
Ln 63, Col 1 (117 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

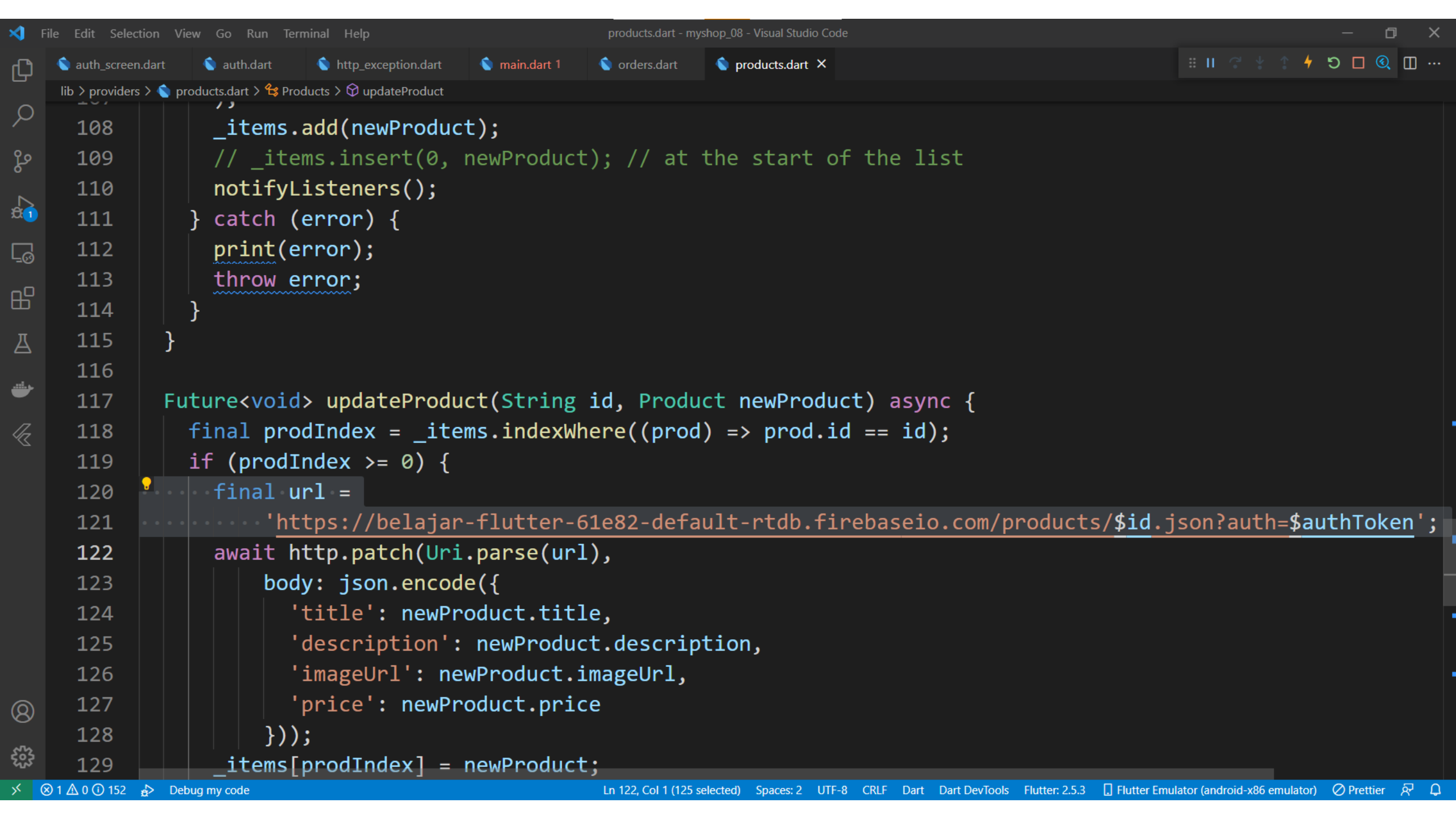

File Edit Selection View Go Run Terminal Help
main.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
lib > main.dart > MyApp > build
16 void main() => runApp(MyApp());
17
18 class MyApp extends StatelessWidget {
19 @override
20 Widget build(BuildContext context) {
21 return MultiProvider(
22 providers: [
23 ChangeNotifierProvider(
24 create: (ctx) => Auth(),
25), // ChangeNotifierProvider
26 ChangeNotifierProxyProvider<Auth, Products>(
27 update: (ctx, auth, previousProducts) => Products(
28 auth.token,
29 previousProducts == null ? [] : previousProducts.items,
30), // Products
31), // ChangeNotifierProxyProvider
32 ChangeNotifierProvider(
33 create: (ctx) => Cart(),
34), // ChangeNotifierProvider
35 ChangeNotifierProvider(
36 create: (ctx) => Orders(),
37), // ChangeNotifierProvider
Debug my code
Ln 32, Col 1 (236 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

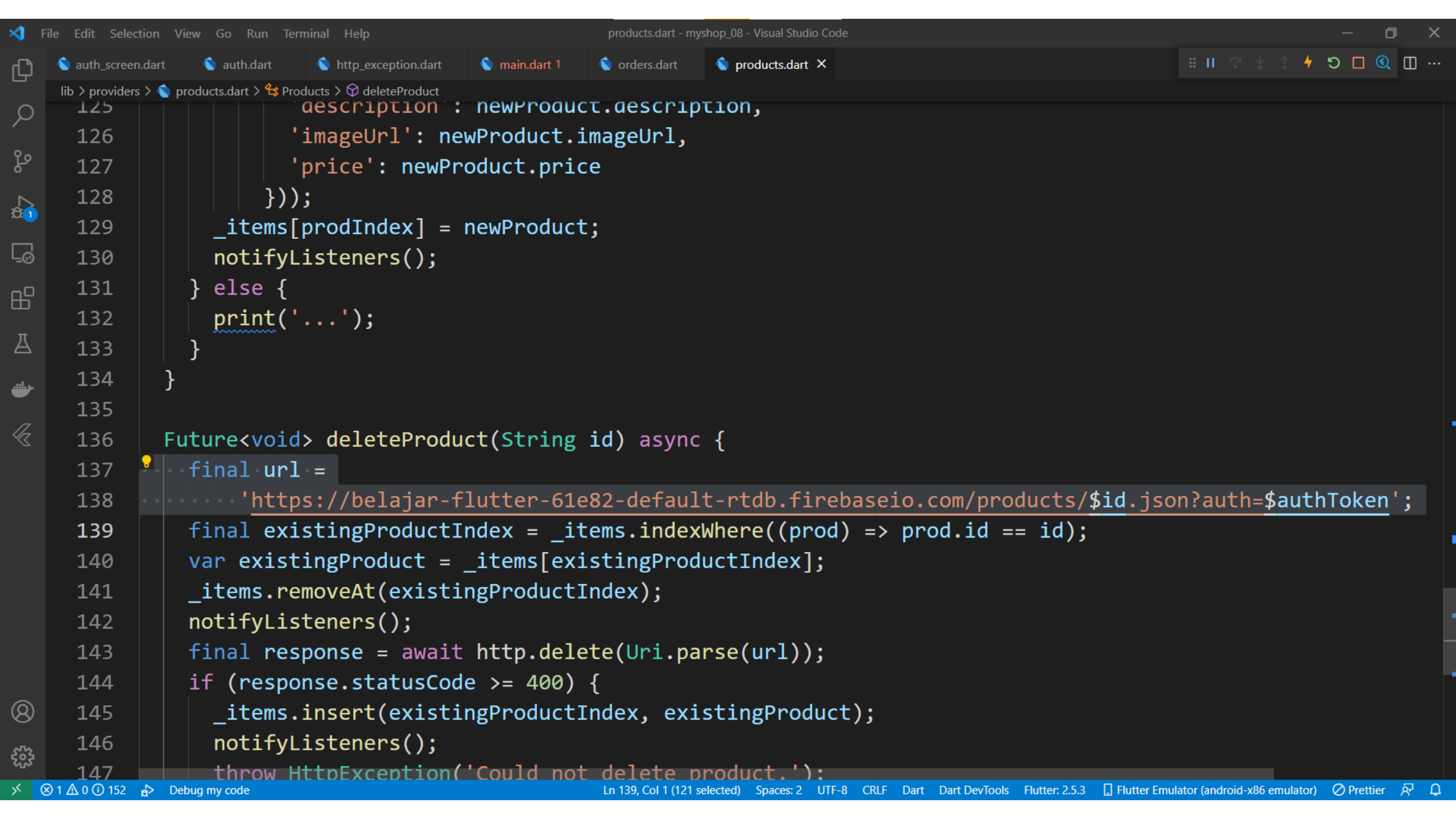

6:38
DEBUG
MyShop
E-Mail
test@email.com
Password
LOGIN
SIGNUP INSTEAD

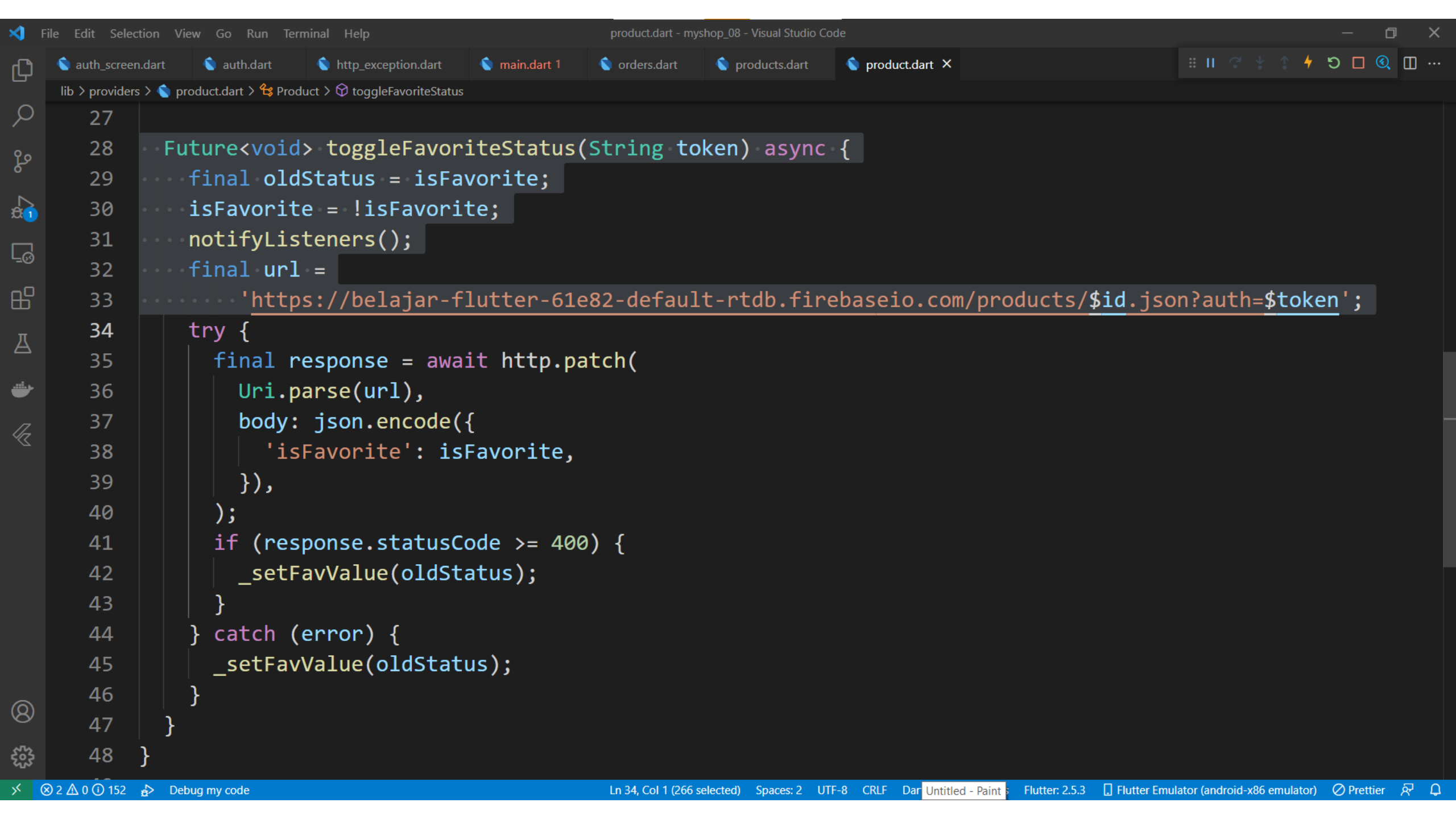

6:38
DEBUG
MyShop
Rujak...
Nasi...
Pecel...

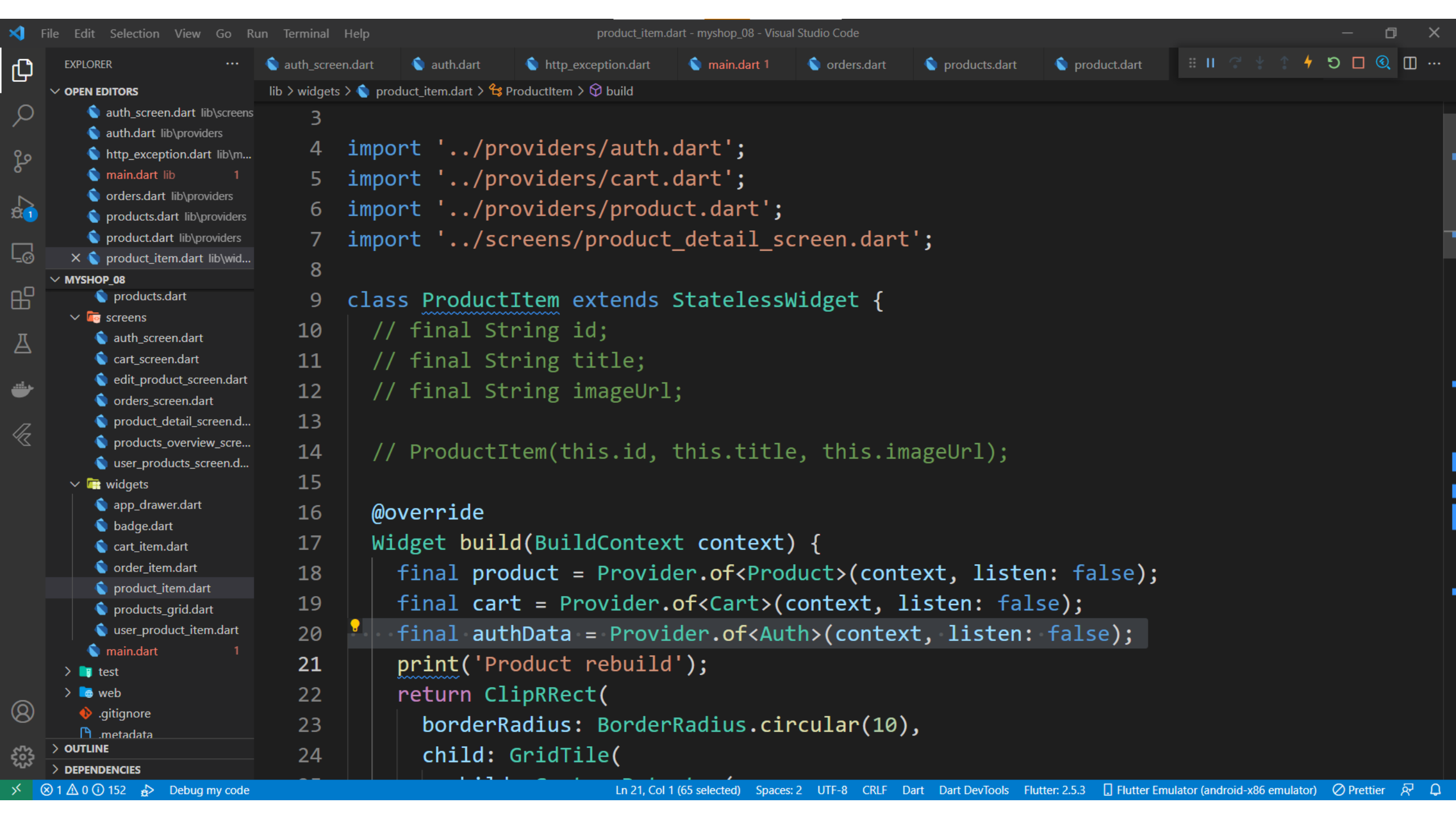
ADDING TOKEN TO ALL REQUESTS

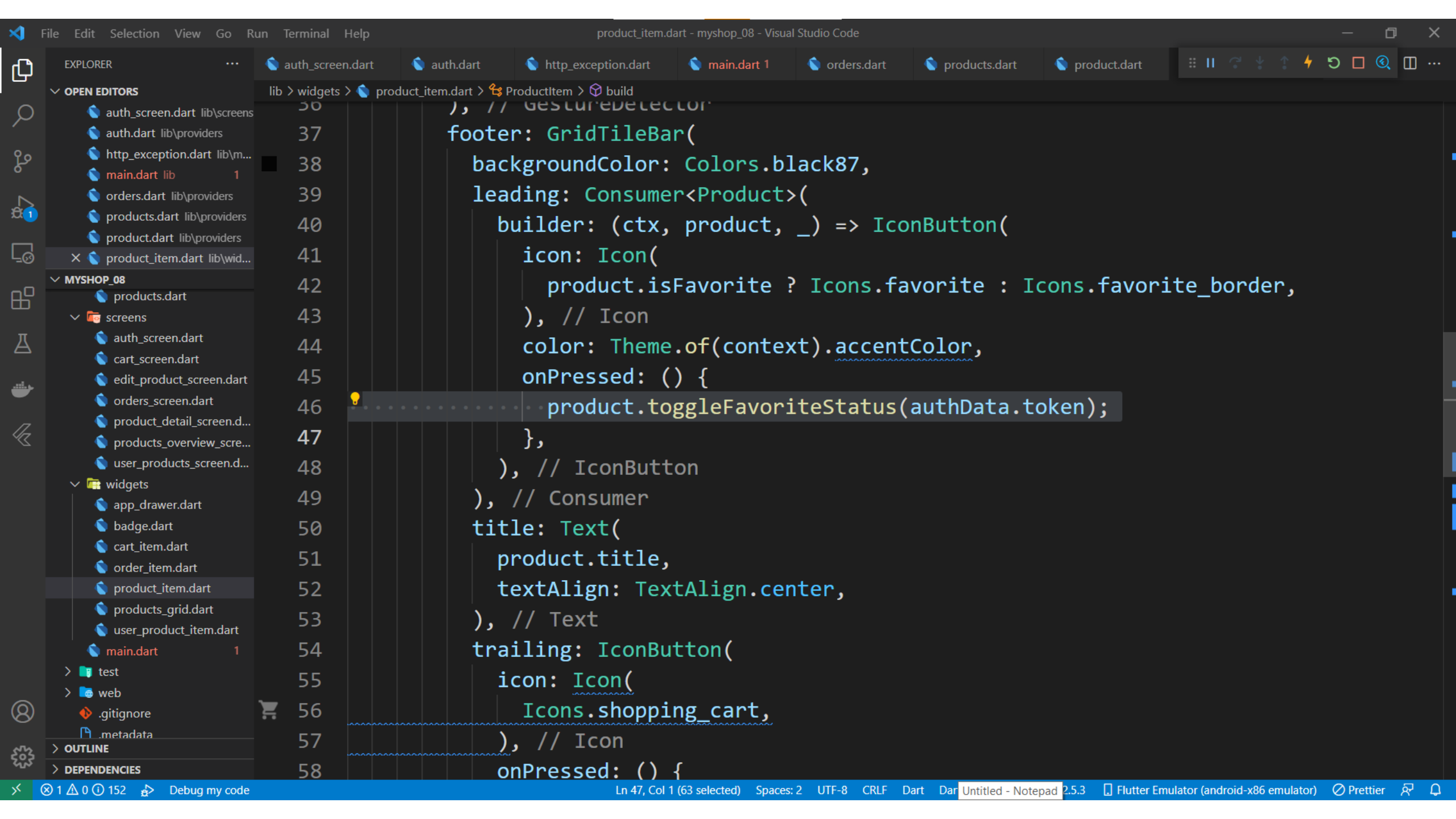

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
lib > providers > products.dart > Products > addProduct
} catch (error) {
throw (error);
}
}
Future<void> addProduct(Product product) async {
final url =
'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken';
try {
final response = await http.post(
Uri.parse(url),
body: json.encode({
'title': product.title,
'description': product.description,
'imageUrl': product.imageUrl,
'price': product.price,
'isFavorite': product.isFavorite,
}),
);
final newProduct = Product(
title: product.title,
description: product.description,
Debug my code
Ln 90, Col 1 (117 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

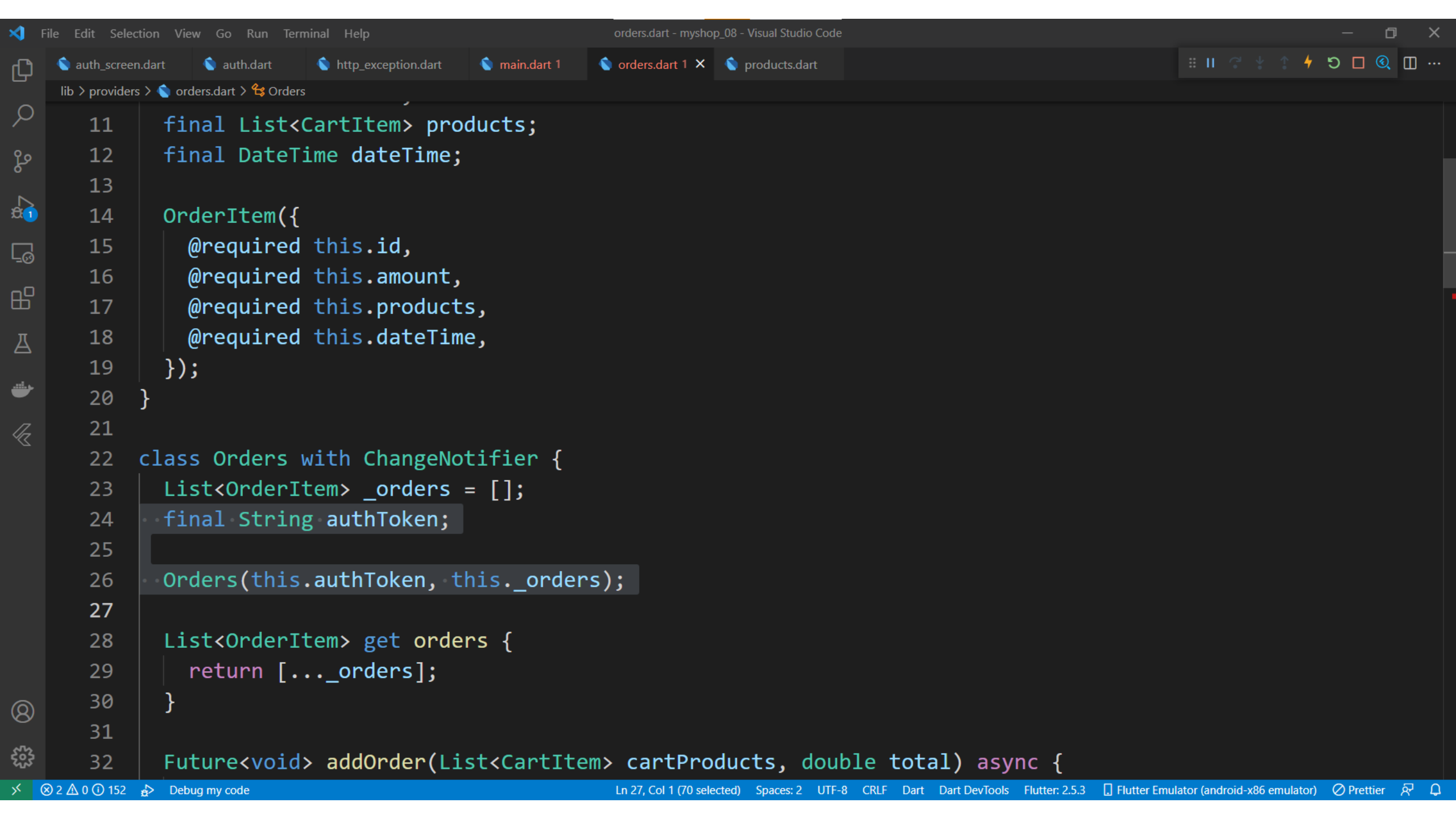

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
lib > providers > products.dart > Products > updateProduct
108 _items.add(newProduct);
109 // _items.insert(0, newProduct); // at the start of the list
110 notifyListeners();
111 } catch (error) {
112 print(error);
113 throw error;
114 }
115 }
116
117 Future<void> updateProduct(String id, Product newProduct) async {
118 final prodIndex = _items.indexWhere((prod) => prod.id == id);
119 if (prodIndex >= 0) {
120 final url =
121 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products/$id.json?auth=$authToken';
122 await http.patch(Uri.parse(url),
123 body: json.encode({
124 'title': newProduct.title,
125 'description': newProduct.description,
126 'imageUrl': newProduct.imageUrl,
127 'price': newProduct.price
128 }));
129 _items[prodIndex] = newProduct;
Debug my code
Ln 122, Col 1 (125 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

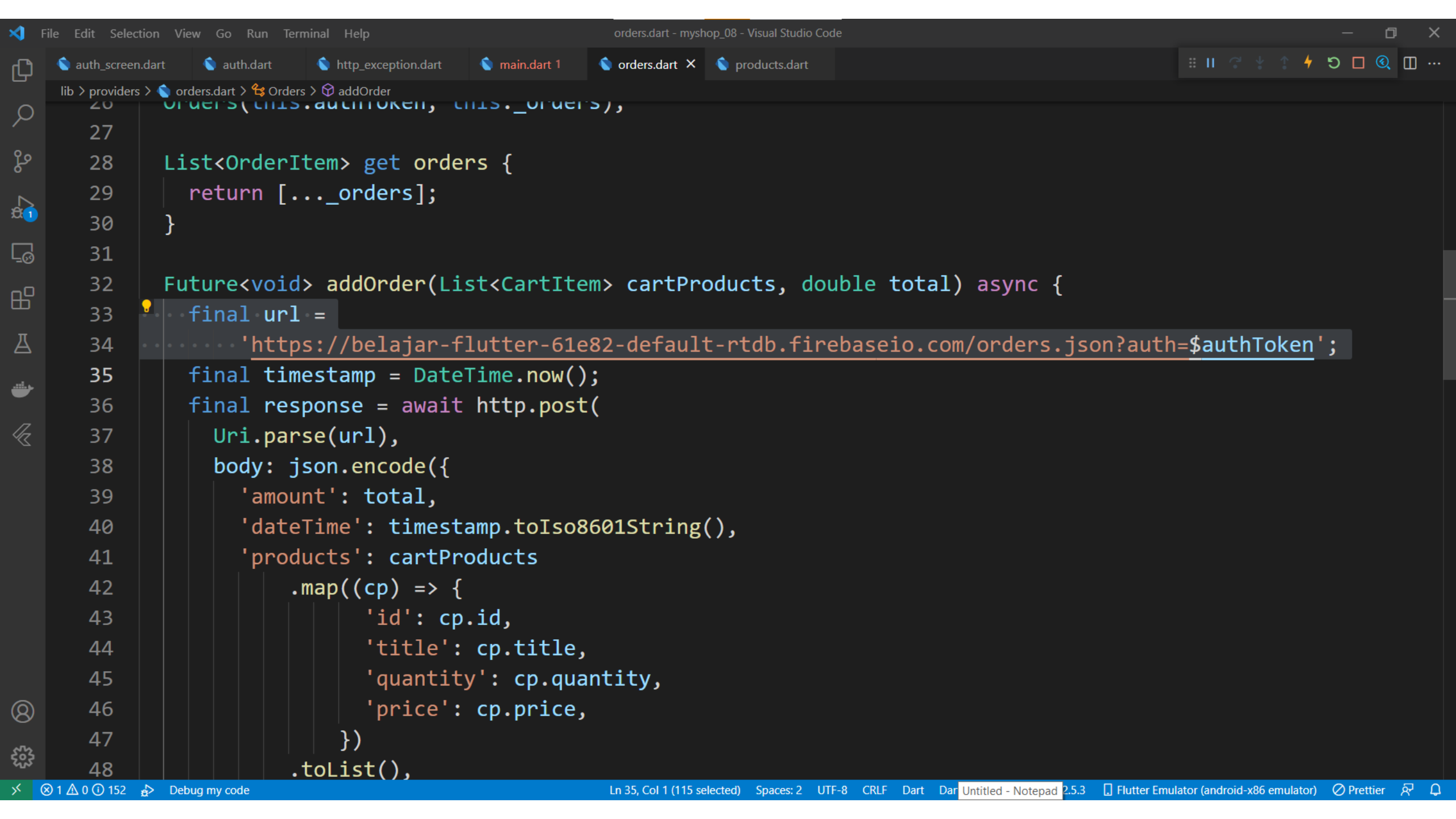

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
lib > providers > products.dart > Products > deleteProduct
'description': newProduct.description,
'imageUrl': newProduct.imageUrl,
'price': newProduct.price
}));
_items[prodIndex] = newProduct;
notifyListeners();
} else {
print('...');
}
}
Future<void> deleteProduct(String id) async {
final url =
'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products/$id.json?auth=$authToken';
final existingProductIndex = _items.indexWhere((prod) => prod.id == id);
var existingProduct = _items[existingProductIndex];
_items.removeAt(existingProductIndex);
notifyListeners();
final response = await http.delete(Uri.parse(url));
if (response.statusCode >= 400) {
_items.insert(existingProductIndex, existingProduct);
notifyListeners();
throw HttpException('Could not delete product.');
Debug my code
Ln 139, Col 1 (121 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

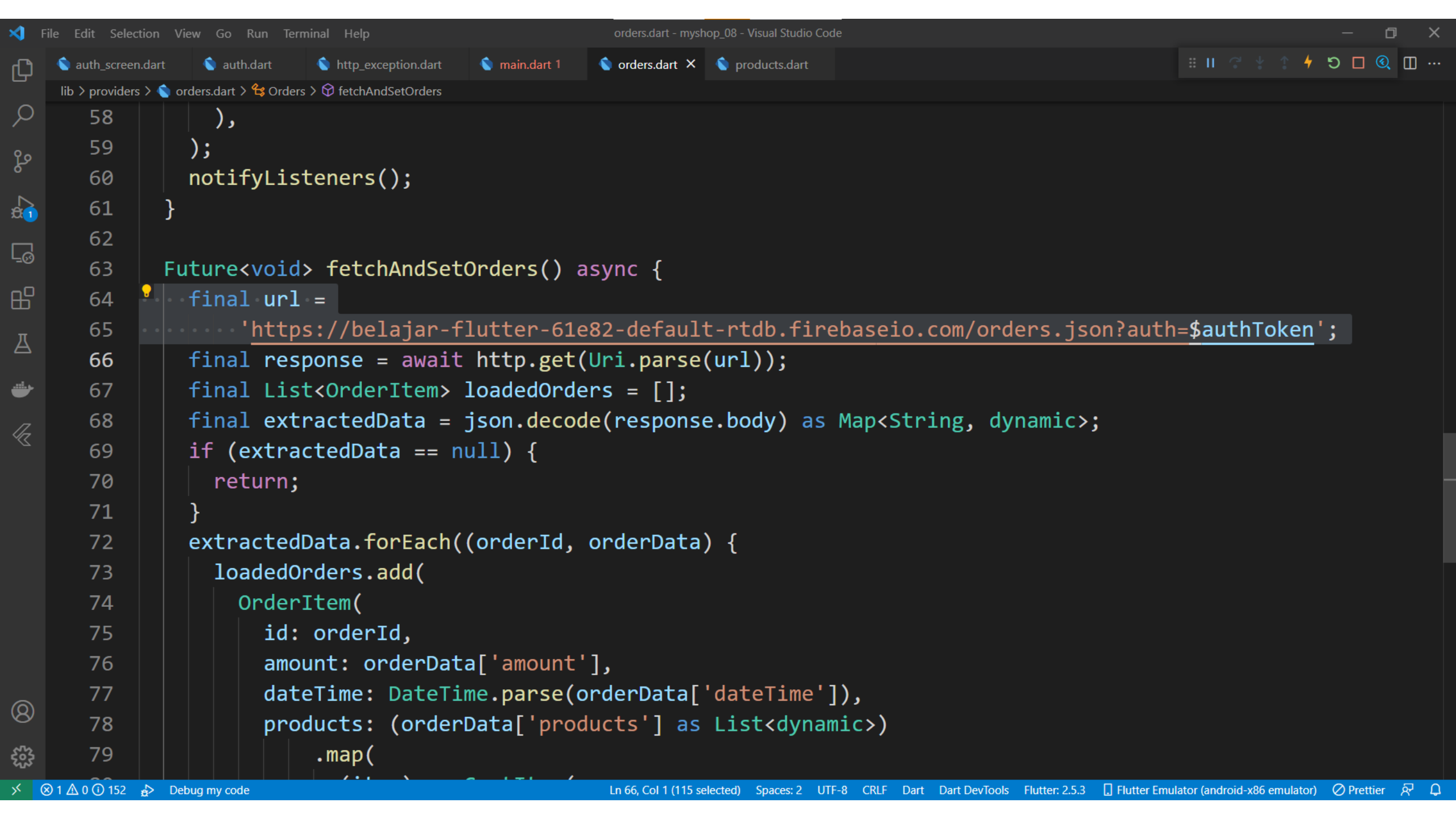

File Edit Selection View Go Run Terminal Help
product.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
product.dart
lib > providers > product.dart > Product > toggleFavoriteStatus
27
28 Future<void> toggleFavoriteStatus(String token) async {
29 final oldStatus = isFavorite;
30 isFavorite = !isFavorite;
31 notifyListeners();
32 final url =
33 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products/$id.json?auth=$token';
34 try {
35 final response = await http.patch(
36 Uri.parse(url),
37 body: json.encode({
38 'isFavorite': isFavorite,
39 }),
40);
41 if (response.statusCode >= 400) {
42 _setFavValue(oldStatus);
43 }
44 } catch (error) {
45 _setFavValue(oldStatus);
46 }
47 }
48 }
Debug my code
Ln 34, Col 1 (266 selected)
Spaces: 2
UTF-8
CRLF
Untitled - Paint
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

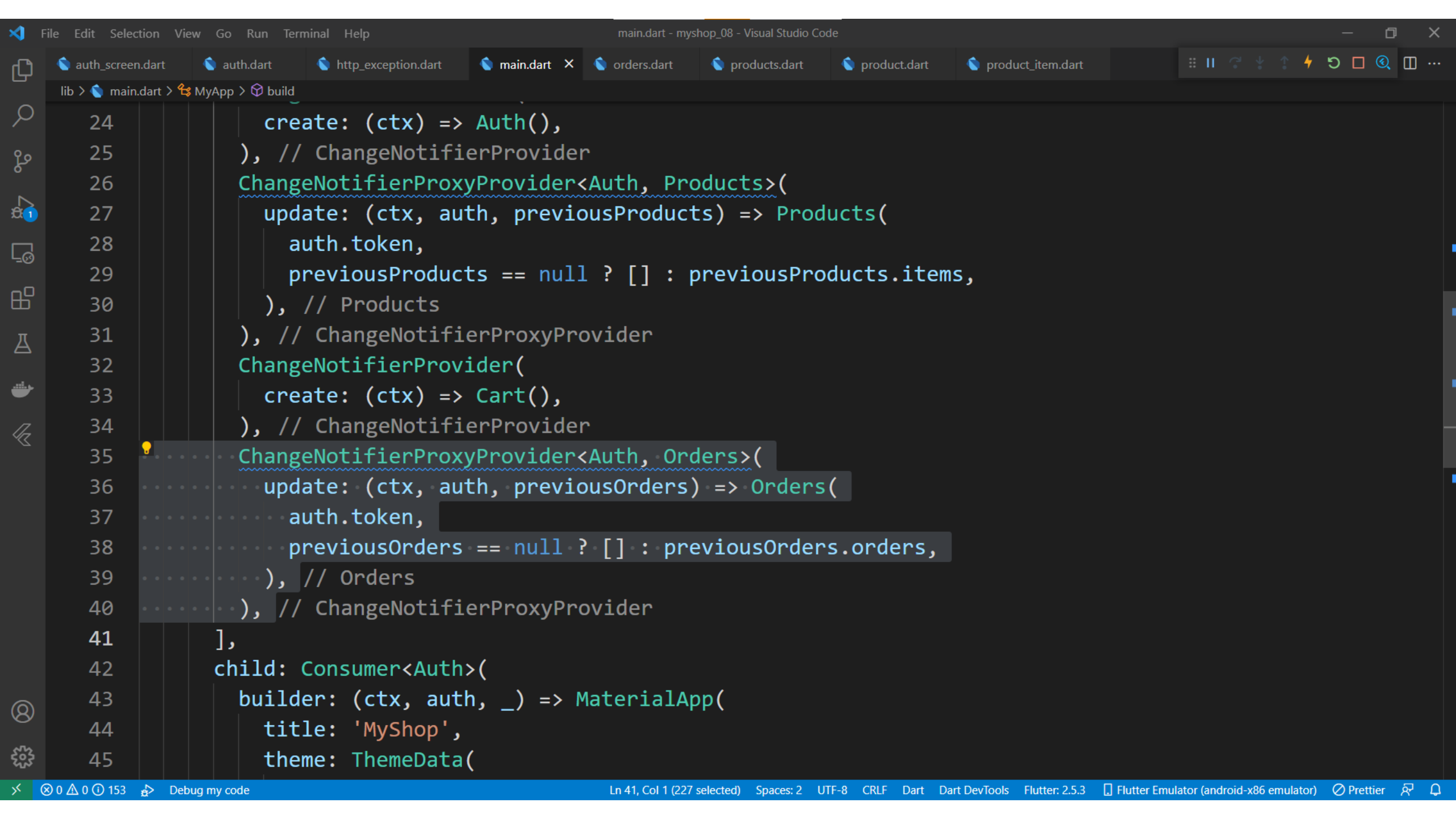

File Edit Selection View Go Run Terminal Help
product_item.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
product.dart
lib > widgets > product_item.dart > ProductItem > build
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib 1
orders.dart lib\providers
products.dart lib\providers
product.dart lib\providers
product_item.dart lib\wid...
MYSHOP_08
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
badge.dart
cart_item.dart
order_item.dart
product_item.dart
products_grid.dart
user_product_item.dart
main.dart 1
test
web
.gitignore
.metadata
OUTLINE
DEPENDENCIES
3
4 import '../providers/auth.dart';
5 import '../providers/cart.dart';
6 import '../providers/product.dart';
7 import '../screens/product_detail_screen.dart';
8
9 class ProductItem extends StatelessWidget {
10 // final String id;
11 // final String title;
12 // final String imageUrl;
13
14 // ProductItem(this.id, this.title, this.imageUrl);
15
16 @override
17 Widget build(BuildContext context) {
18 final product = Provider.of<Product>(context, listen: false);
19 final cart = Provider.of<Cart>(context, listen: false);
20 final authData = Provider.of<Auth>(context, listen: false);
21 print('Product rebuild');
22 return ClipRRect(
23 borderRadius: BorderRadius.circular(10),
24 child: GridTile(
Debug my code
Ln 21, Col 1 (65 selected) Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

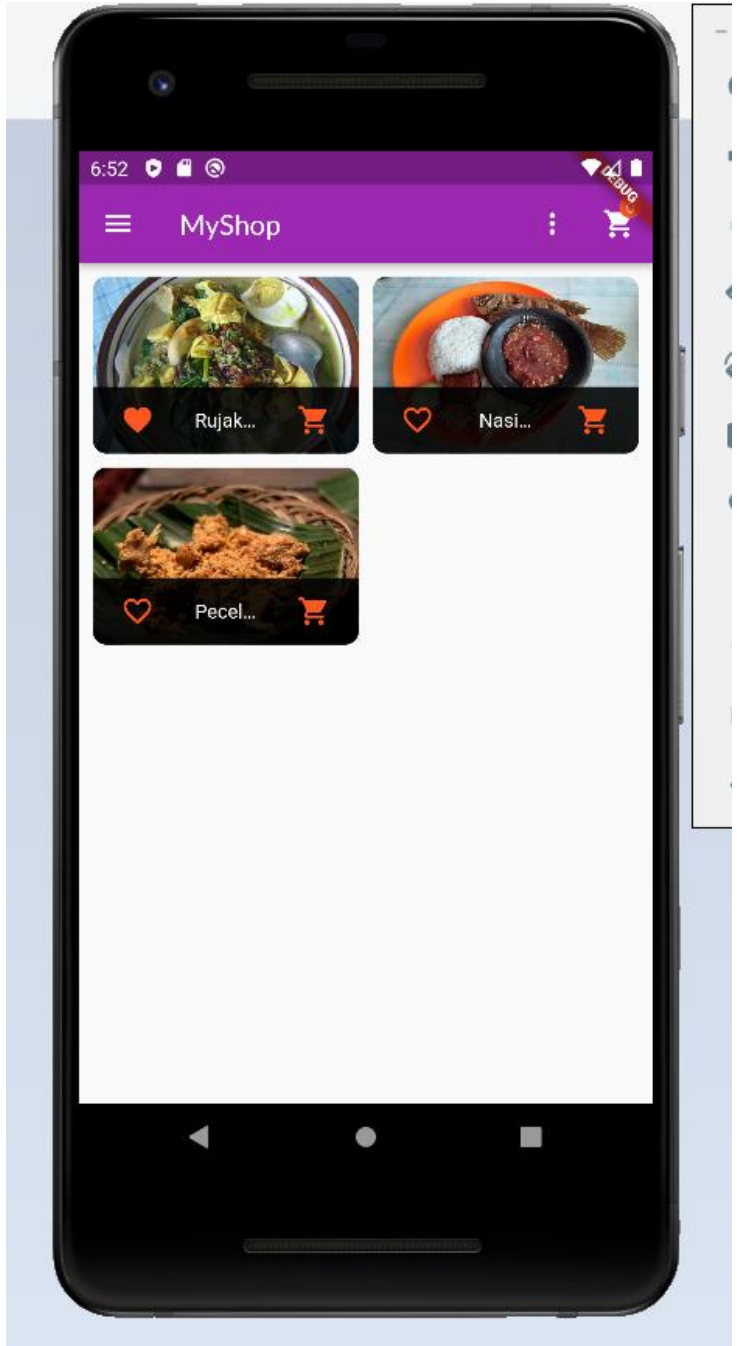

File Edit Selection View Go Run Terminal Help
product_item.dart - myshop_08 - Visual Studio Code
EXPLORER
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
product.dart
lib > widgets > product_item.dart > ProductItem > build
OPEN EDITORS
auth_screen.dart lib\screens
auth.dart lib\providers
http_exception.dart lib\m...
main.dart lib 1
orders.dart lib\providers
products.dart lib\providers
product.dart lib\providers
product_item.dart lib\wid...
MYSHOP_08
products.dart
screens
auth_screen.dart
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.d...
products_overview_scre...
user_products_screen.d...
widgets
app_drawer.dart
badge.dart
cart_item.dart
order_item.dart
product_item.dart
products_grid.dart
user_product_item.dart
main.dart 1
test
web
.gitignore
.metadata
OUTLINE
DEPENDENCIES
footer: GridTileBar(
backgroundColor: Colors.black87,
leading: Consumer<Product>(
builder: (ctx, product, _) => IconButton(
icon: Icon(
product.isFavorite ? Icons.favorite : Icons.favorite_border,
), // Icon
color: Theme.of(context).accentColor,
onPressed: () {
product.toggleFavoriteStatus(authData.token);
},
), // IconButton
), // Consumer
title: Text(
product.title,
textAlign: TextAlign.center,
), // Text
trailing: IconButton(
icon: Icon(
Icons.shopping_cart,
), // Icon
onPressed: () {
Ln 47, Col 1 (63 selected) Spaces: 2 UTF-8 CRLF Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator) Prettier
Debug my code

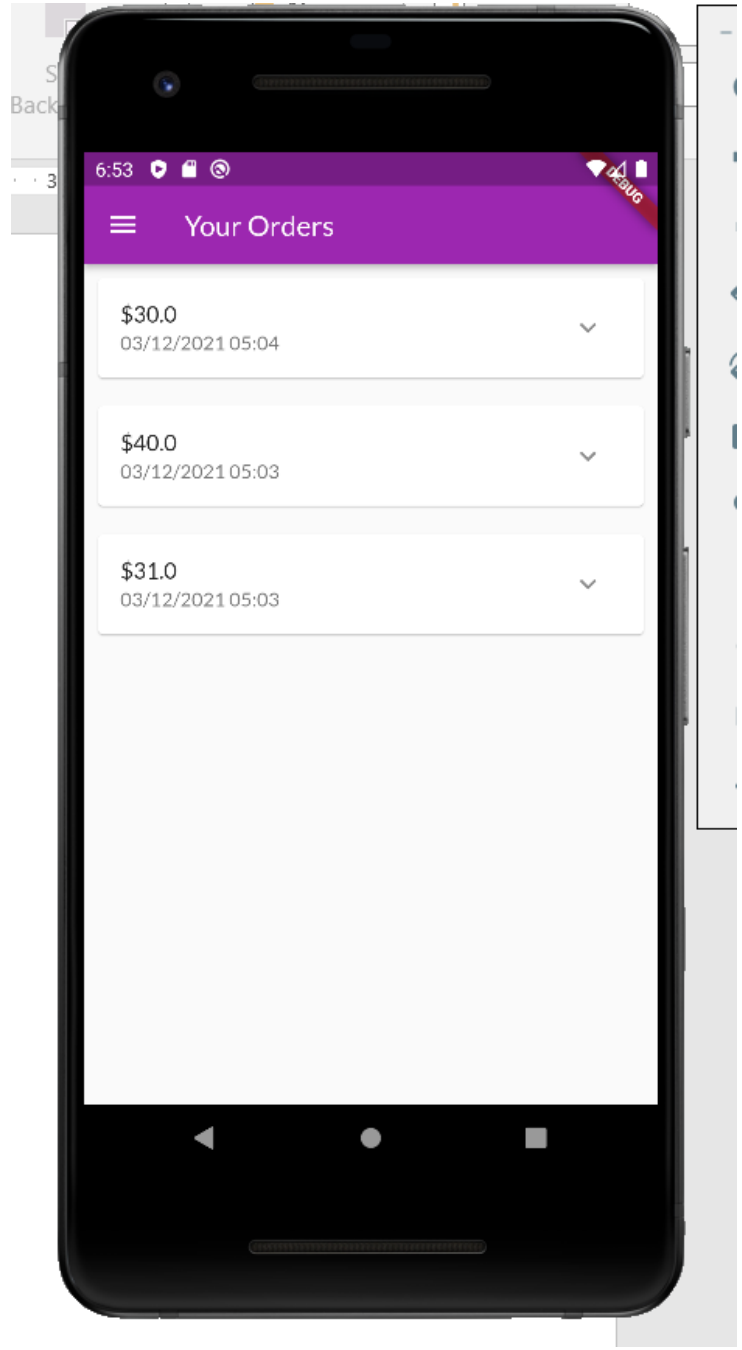

File Edit Selection View Go Run Terminal Help
orders.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart 1
products.dart
lib > providers > orders.dart > Orders
11 final List<CartItem> products;
12 final DateTime dateTime;
13
14 OrderItem({
15 @required this.id,
16 @required this.amount,
17 @required this.products,
18 @required this.dateTime,
19 });
20 }
21
22 class Orders with ChangeNotifier {
23 List<OrderItem> _orders = [];
24 final String authToken;
25
26 Orders(this.authToken, this._orders);
27
28 List<OrderItem> get orders {
29 return [..._orders];
30 }
31
32 Future<void> addOrder(List<CartItem> cartProducts, double total) async {
Debug my code
Ln 27, Col 1 (70 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
orders.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
lib > providers > orders.dart > Orders > addOrder
27
28 List<OrderItem> get orders {
29 return [..._orders];
30 }
31
32 Future<void> addOrder(List<CartItem> cartProducts, double total) async {
33 final url =
34 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/orders.json?auth=$authToken';
35 final timestamp = DateTime.now();
36 final response = await http.post(
37 Uri.parse(url),
38 body: json.encode({
39 'amount': total,
40 'dateTime': timestamp.toIso8601String(),
41 'products': cartProducts
42 .map((cp) => {
43 'id': cp.id,
44 'title': cp.title,
45 'quantity': cp.quantity,
46 'price': cp.price,
47 })
48 .toList(),
Debug my code
Ln 35, Col 1 (115 selected)
Spaces: 2
UTF-8
CRLF
Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator)
Prettier

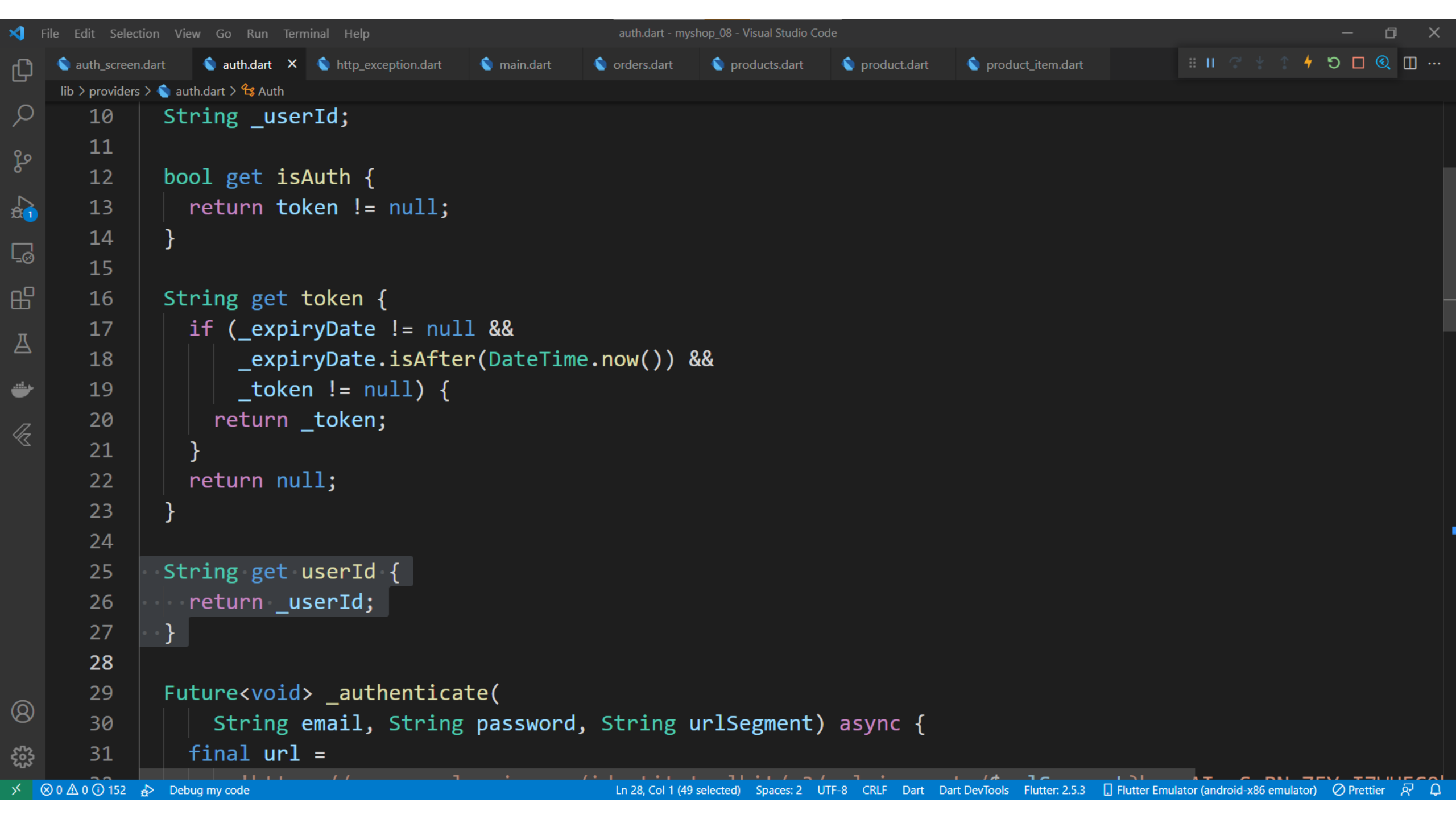

File Edit Selection View Go Run Terminal Help
orders.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 1
orders.dart
products.dart
lib > providers > orders.dart > Orders > fetchAndSetOrders
58),
59);
60 notifyListeners();
61 }
62
63 Future<void> fetchAndSetOrders() async {
64 final url =
65 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/orders.json?auth=$authToken';
66 final response = await http.get(Uri.parse(url));
67 final List<OrderItem> loadedOrders = [];
68 final extractedData = json.decode(response.body) as Map<String, dynamic>;
69 if (extractedData == null) {
70 return;
71 }
72 extractedData.forEach((orderId, orderData) {
73 loadedOrders.add(
74 OrderItem(
75 id: orderId,
76 amount: orderData['amount'],
77 dateTime: DateTime.parse(orderData['dateTime']),
78 products: (orderData['products'] as List<dynamic>)
79 .map(
Debug my code
Ln 66, Col 1 (115 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

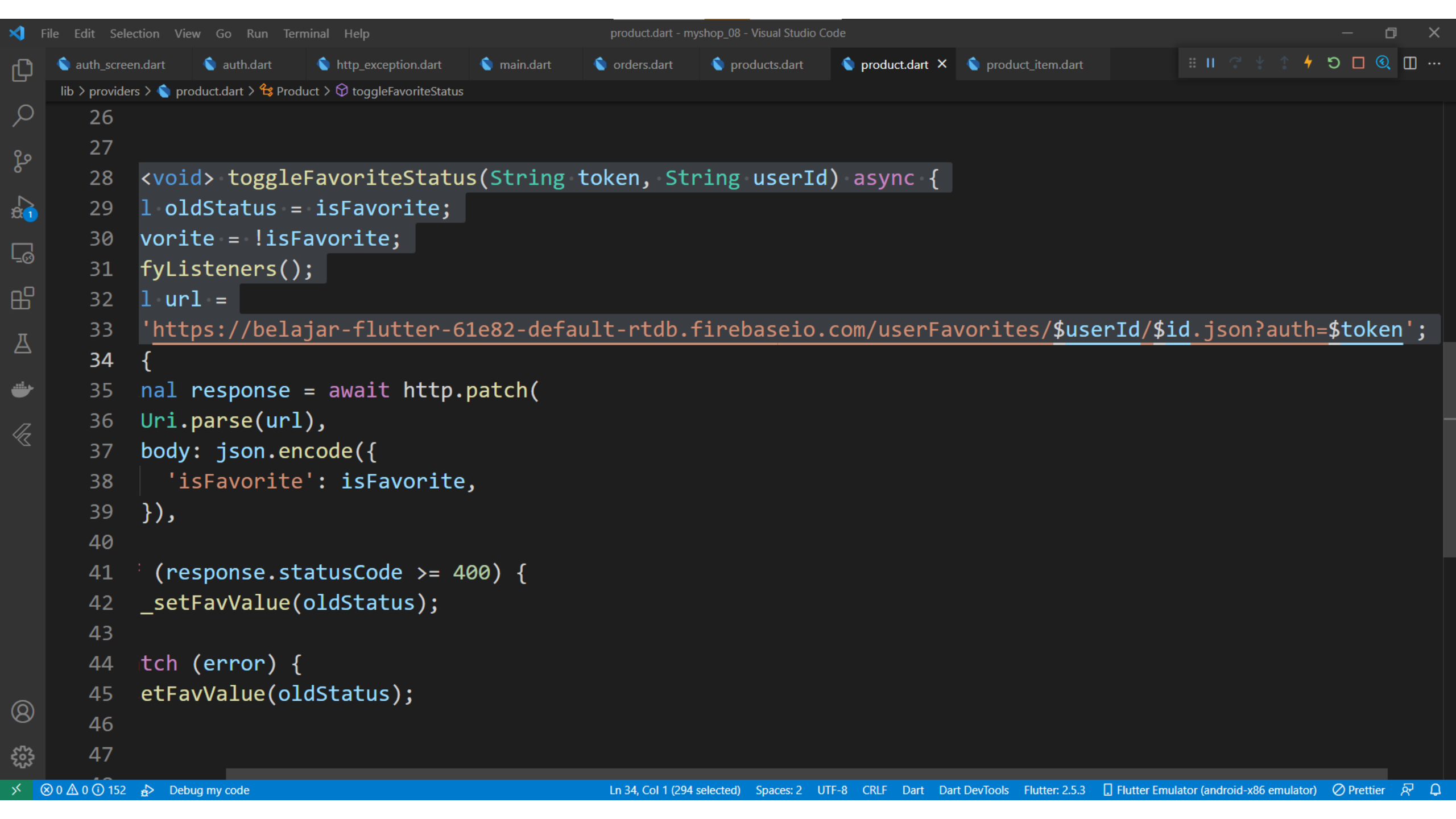

File Edit Selection View Go Run Terminal Help
main.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > main.dart > MyApp > build
create: (ctx) => Auth(),
), // ChangeNotifierProvider
ChangeNotifierProxyProvider<Auth, Products>(
update: (ctx, auth, previousProducts) => Products(
auth.token,
previousProducts == null ? [] : previousProducts.items,
), // Products
), // ChangeNotifierProxyProvider
ChangeNotifierProvider(
create: (ctx) => Cart(),
), // ChangeNotifierProvider
ChangeNotifierProxyProvider<Auth, Orders>(
update: (ctx, auth, previousOrders) => Orders(
auth.token,
previousOrders == null ? [] : previousOrders.orders,
), // Orders
), // ChangeNotifierProxyProvider
],
child: Consumer<Auth>(
builder: (ctx, auth, _) => MaterialApp(
title: 'MyShop',
theme: ThemeData(
0 0 153
Debug my code
Ln 41, Col 1 (227 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

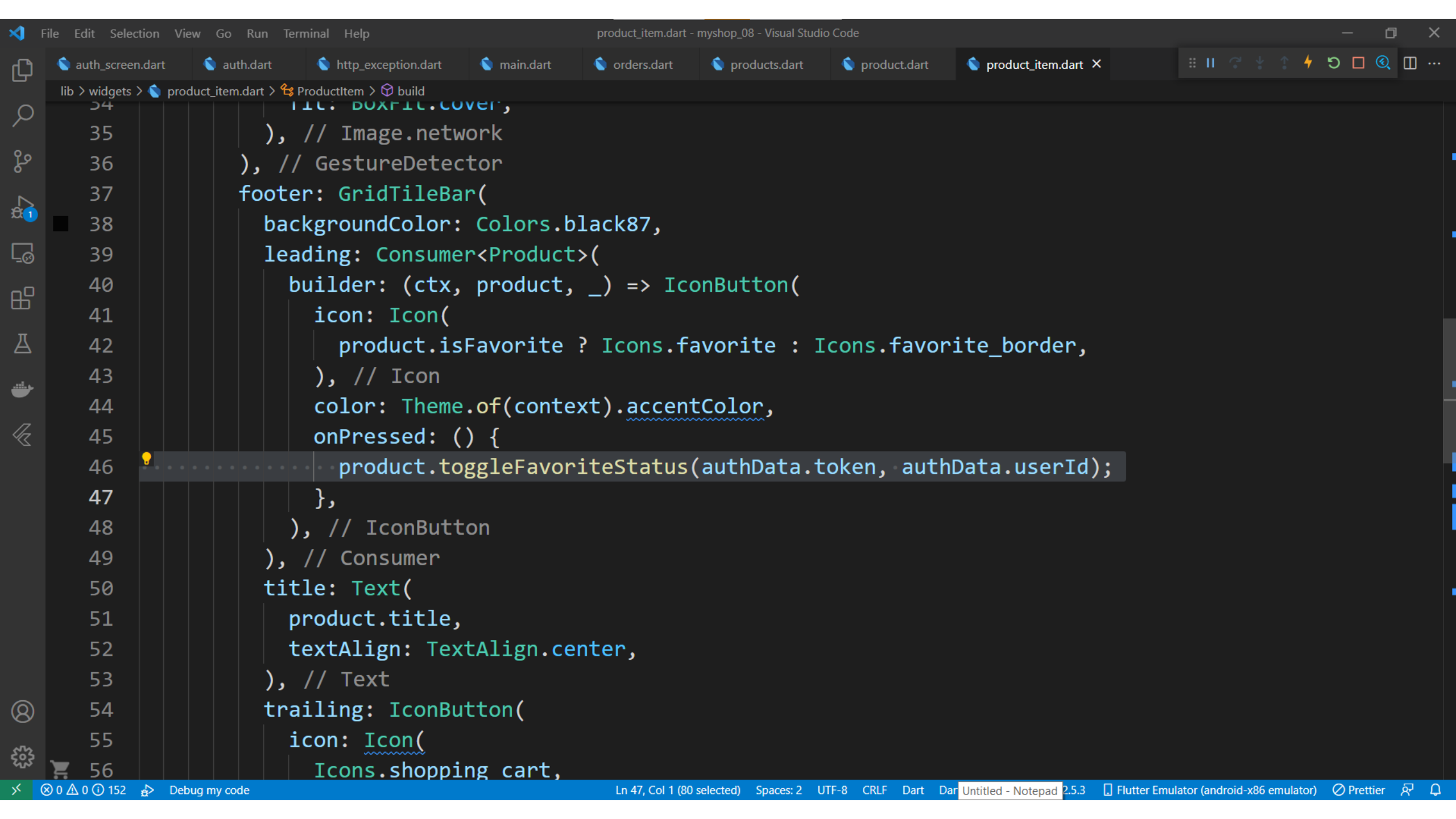

6:52
MyShop
Rujak...
Nasi...
Pecel...

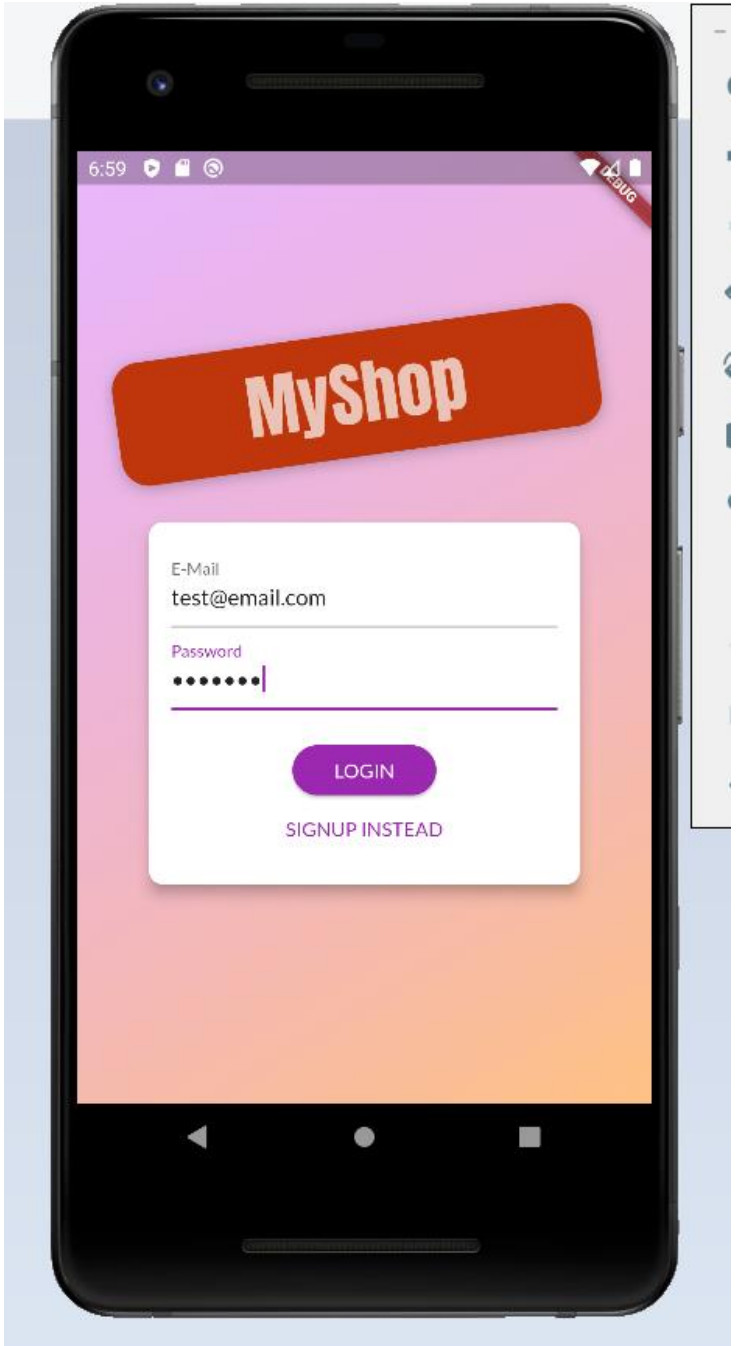

6:53
Your Orders
$30.0
03/12/2021 05:04
$40.0
03/12/2021 05:03
$31.0
03/12/2021 05:03

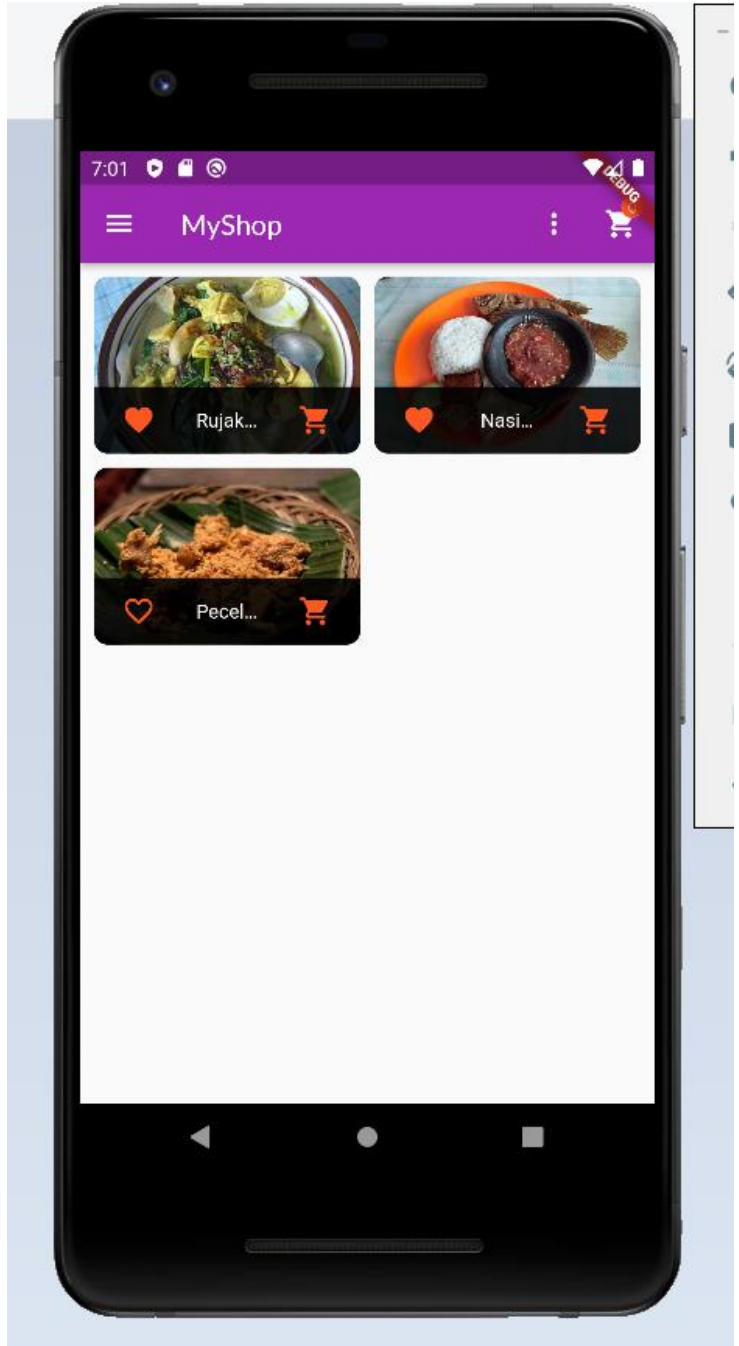
CONNECTING THE FAVORITE STATUS TO USERS

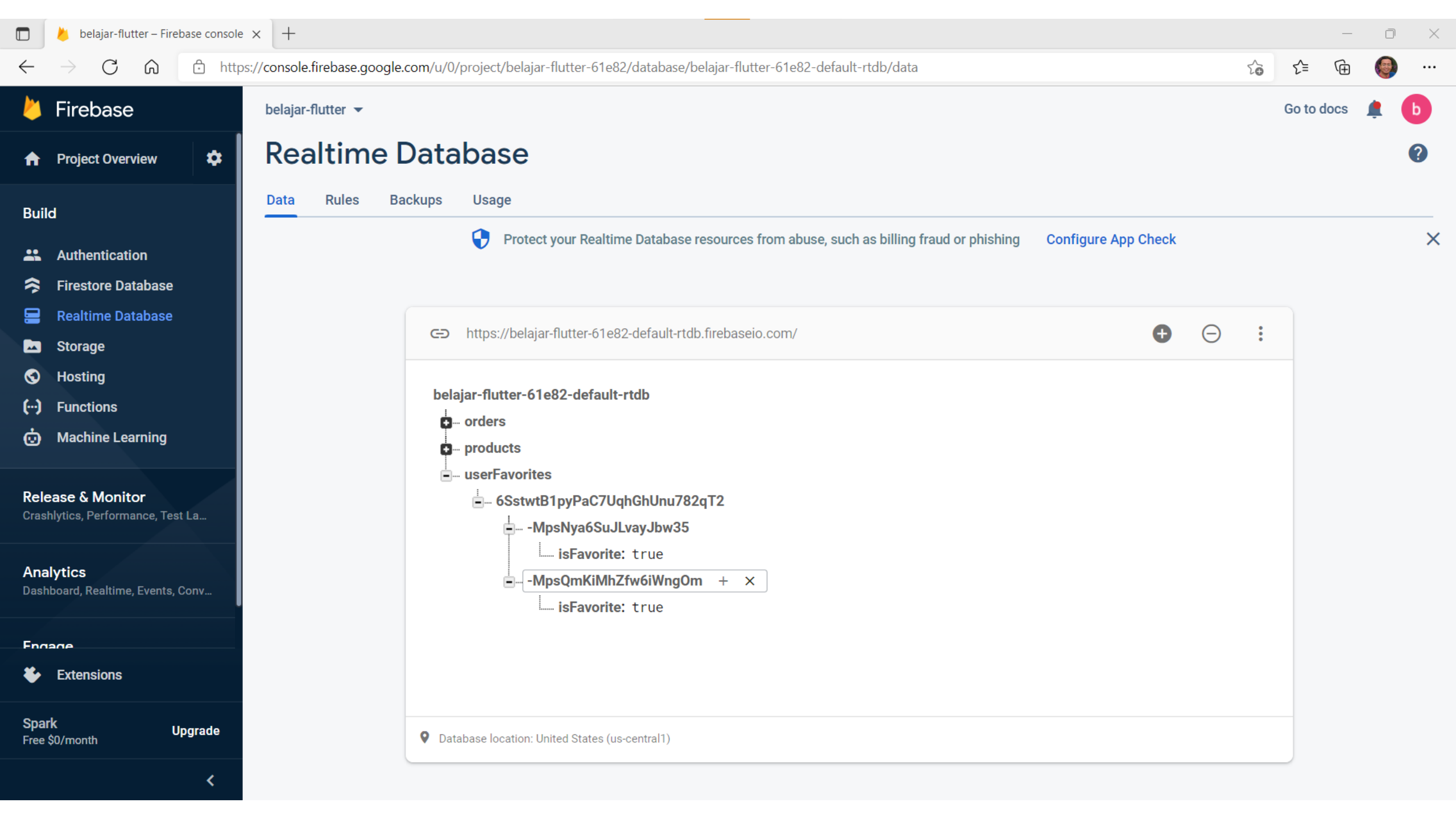

File Edit Selection View Go Run Terminal Help
auth.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > auth.dart > Auth
10 String _userId;
11
12 bool get isAuth {
13 return token != null;
14 }
15
16 String get token {
17 if (_expiryDate != null &&
18 _expiryDate.isAfter(DateTime.now()) &&
19 _token != null) {
20 return _token;
21 }
22 return null;
23 }
24
25 String get userId {
26 return _userId;
27 }
28
29 Future<void> _authenticate(
30 String email, String password, String urlSegment) async {
31 final url =
0 0 152
Debug my code
Ln 28, Col 1 (49 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

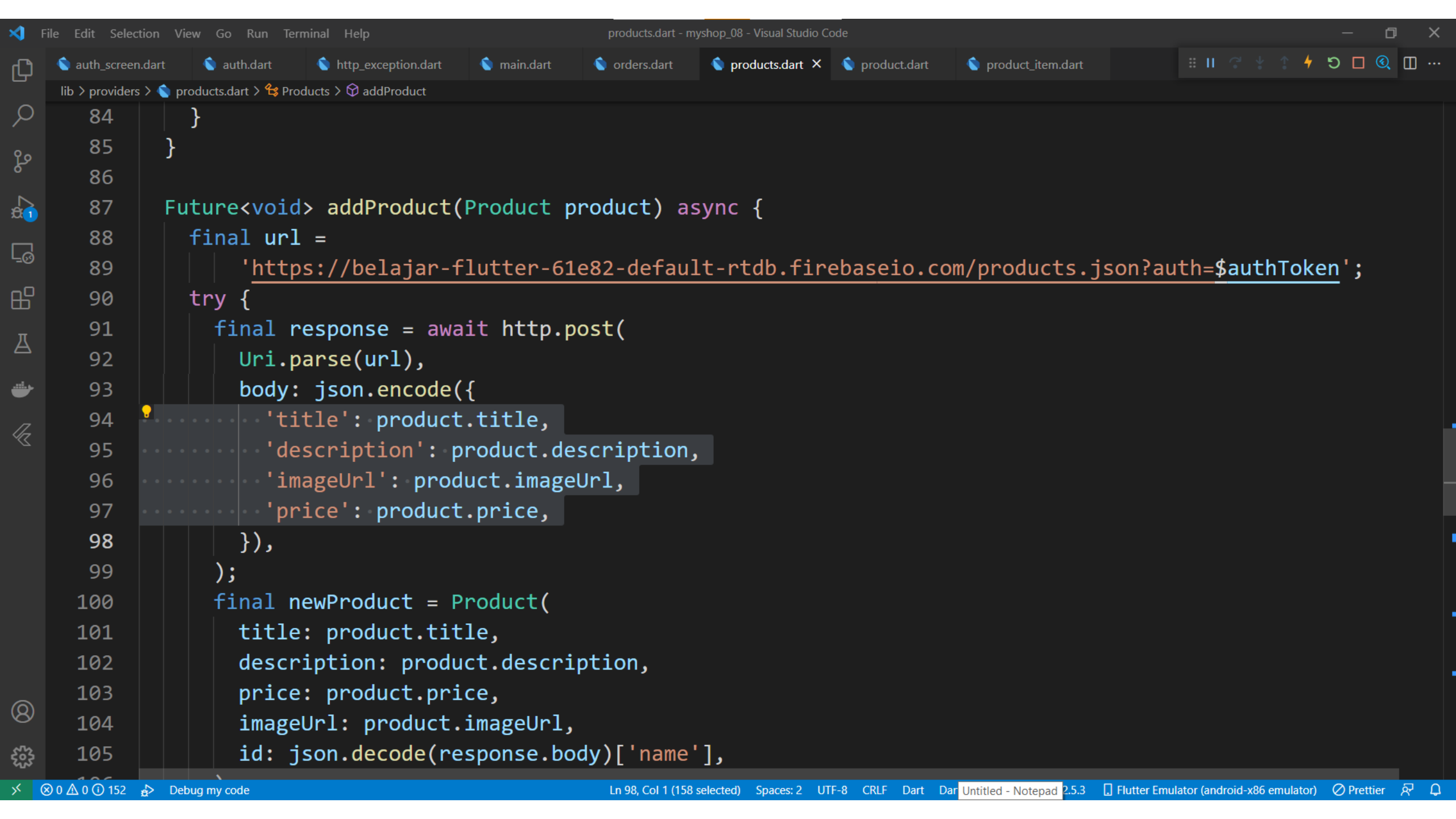

File Edit Selection View Go Run Terminal Help
product.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > product.dart > Product > toggleFavoriteStatus
26
27
28 <void> toggleFavoriteStatus(String token, String userId) async {
29 l oldStatus = isFavorite;
30 vorite = !isFavorite;
31 fyListeners();
32 l url =
33 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/userFavorites/$userId/$id.json?auth=$token';
34 {
35 nal response = await http.patch(
36 Uri.parse(url),
37 body: json.encode({
38 'isFavorite': isFavorite,
39 }),
40
41 (response.statusCode >= 400) {
42 _setFavValue(oldStatus);
43
44 tch (error) {
45 etFavValue(oldStatus);
46
47
0 0 152
Debug my code
Ln 34, Col 1 (294 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

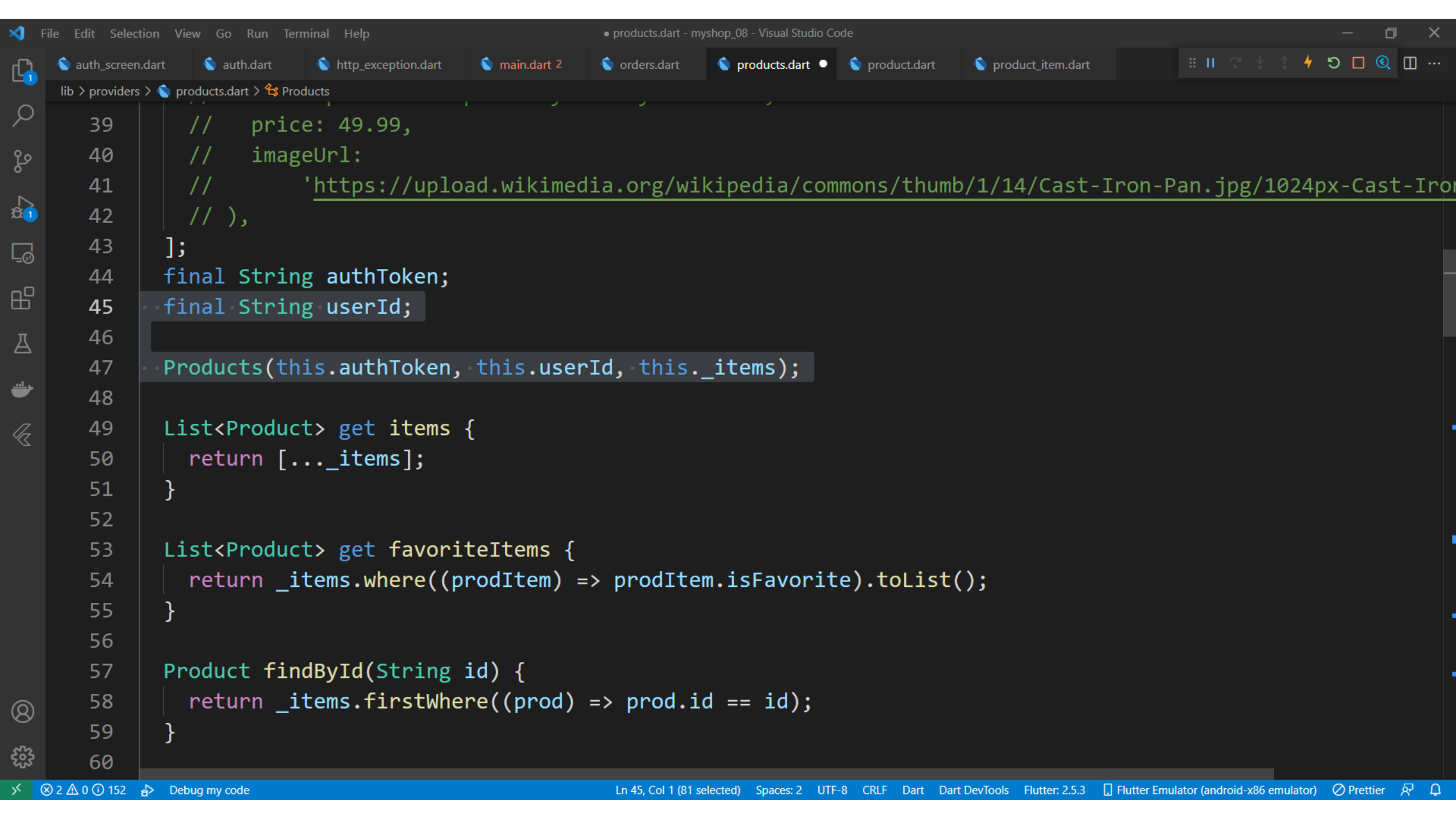

File Edit Selection View Go Run Terminal Help
product_item.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > widgets > product_item.dart > ProductItem > build
fit: BoxFit.cover,
), // Image.network
), // GestureDetector
footer: GridTileBar(
backgroundColor: Colors.black87,
leading: Consumer<Product>(
builder: (ctx, product, _) => IconButton(
icon: Icon(
product.isFavorite ? Icons.favorite : Icons.favorite_border,
), // Icon
color: Theme.of(context).accentColor,
onPressed: () {
product.toggleFavoriteStatus(authData.token, authData.userId);
},
), // IconButton
), // Consumer
title: Text(
product.title,
textAlign: TextAlign.center,
), // Text
trailing: IconButton(
icon: Icon(
Icons.shopping_cart,
Ln 47, Col 1 (80 selected) Spaces: 2 UTF-8 CRLF Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator) Prettier

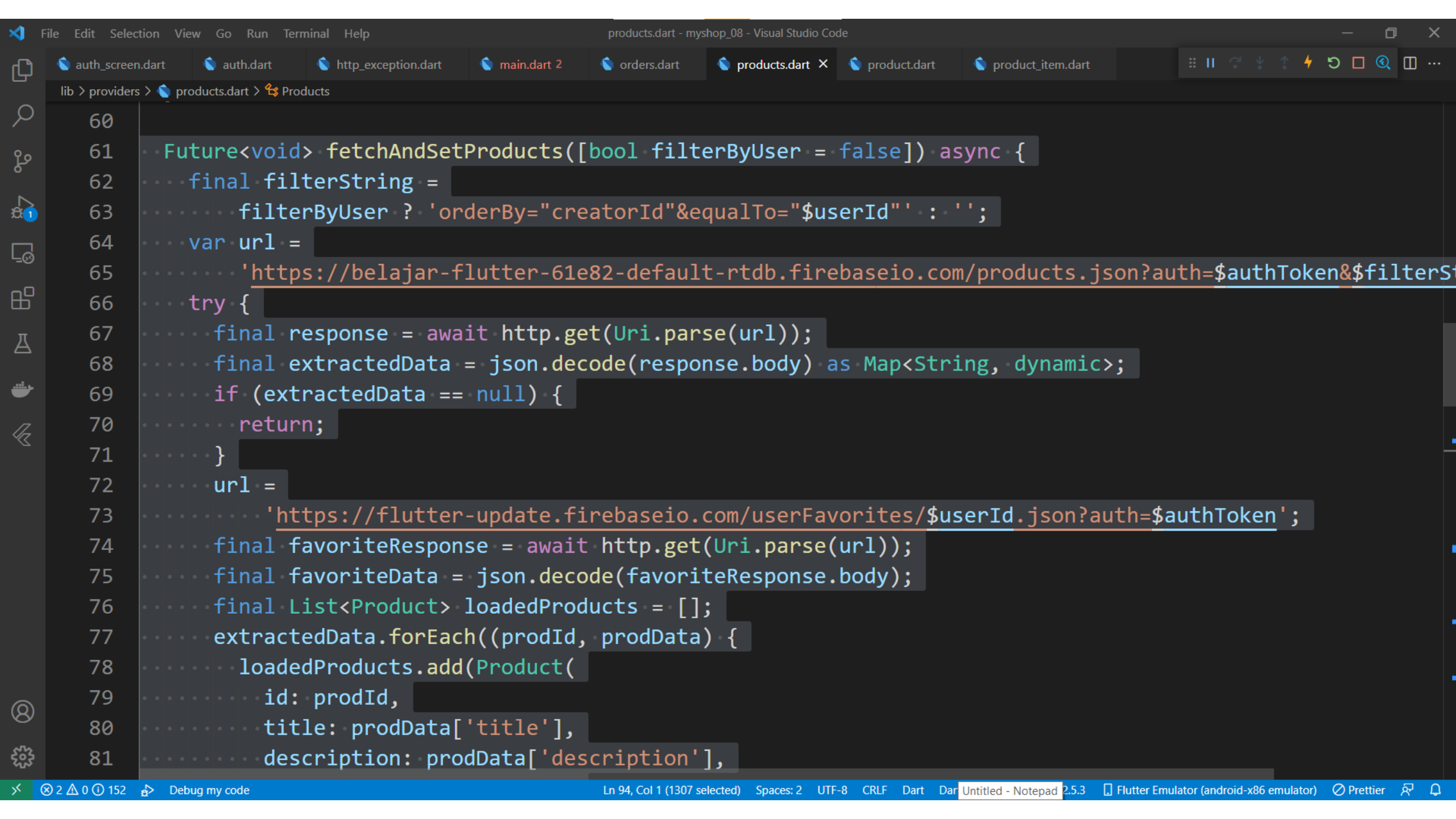

6:59
DEBUG
MyShop
E-Mail
test@email.com
Password
LOGIN
SIGNUP INSTEAD

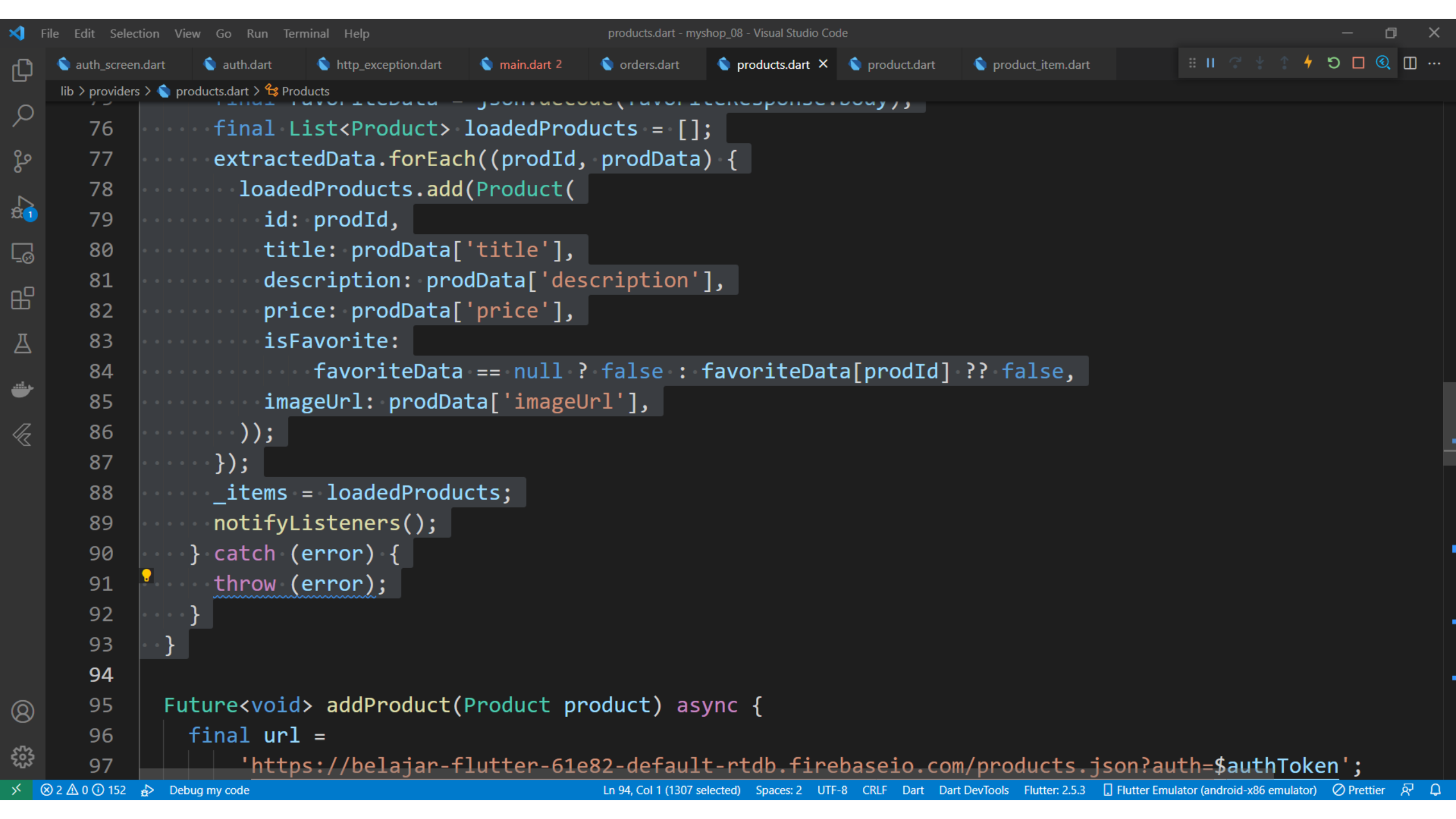

7:01
DEBUG
MyShop
Rujak...
Nasi...
Pecel...

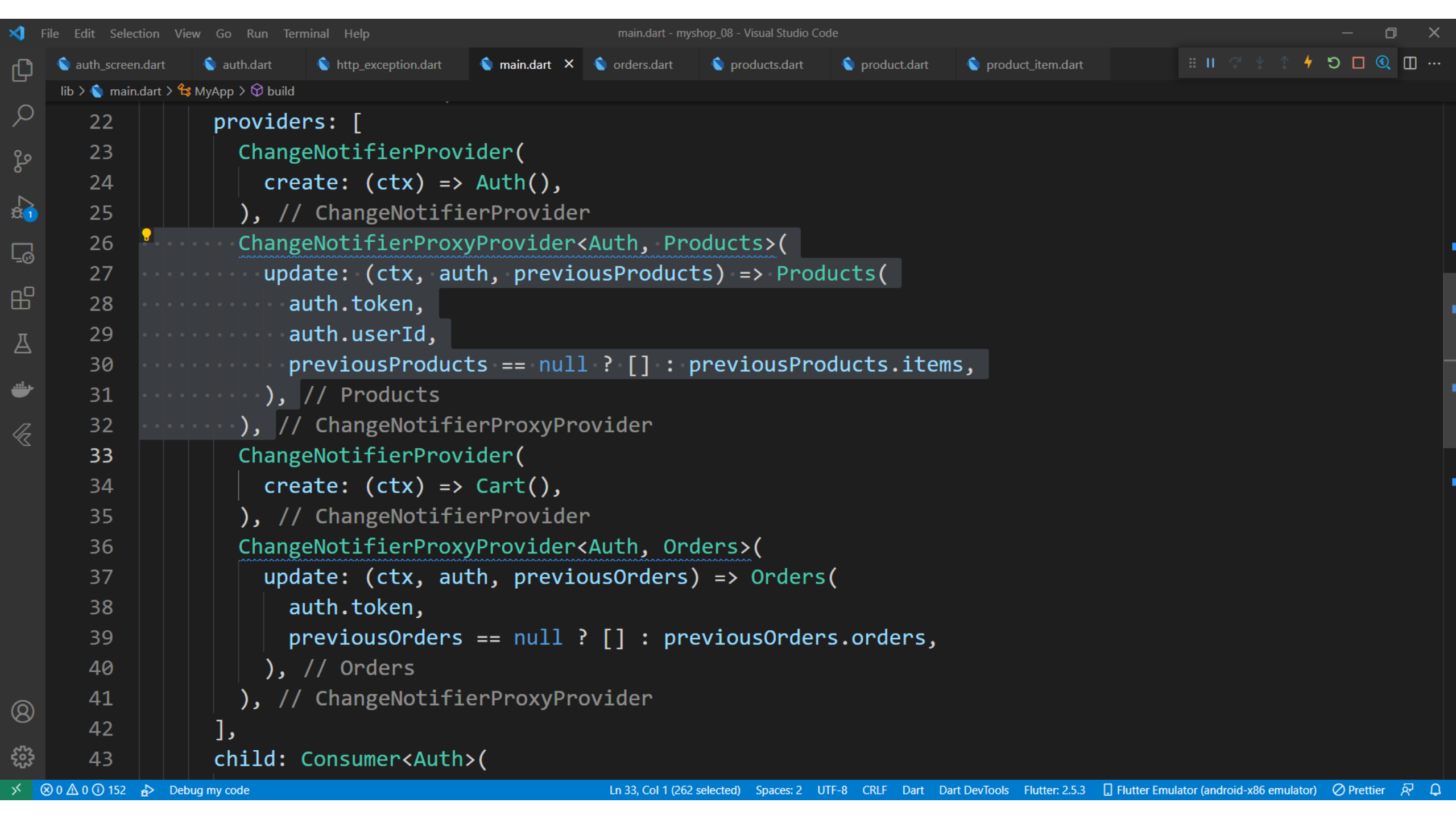

belajar-flutter – Firebase console
https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/database/belajar-flutter-61e82-default-rtdb/data
Firebase
belajar-flutter
Go to docs
Project Overview
Build
Authentication
Firestore Database
Realtime Database
Storage
Hosting
Functions
Machine Learning
Release & Monitor
Crashlytics, Performance, Test La...
Analytics
Dashboard, Realtime, Events, Conv...
Extensions
Spark
Free $0/month
Upgrade
Realtime Database
Data
Rules
Backups
Usage
Protect your Realtime Database resources from abuse, such as billing fraud or phishing
Configure App Check
https://belajar-flutter-61e82-default-rtdb.firebaseio.com/
belajar-flutter-61e82-default-rtdb
orders
products
userFavorites
6SstwtB1pyPaC7UqhGhUnu782qT2
-MpsNya6SuJLvayJbw35
isFavorite: true
-MpsQmKiMhZfw6iWngOm
isFavorite: true
Database location: United States (us-central1)

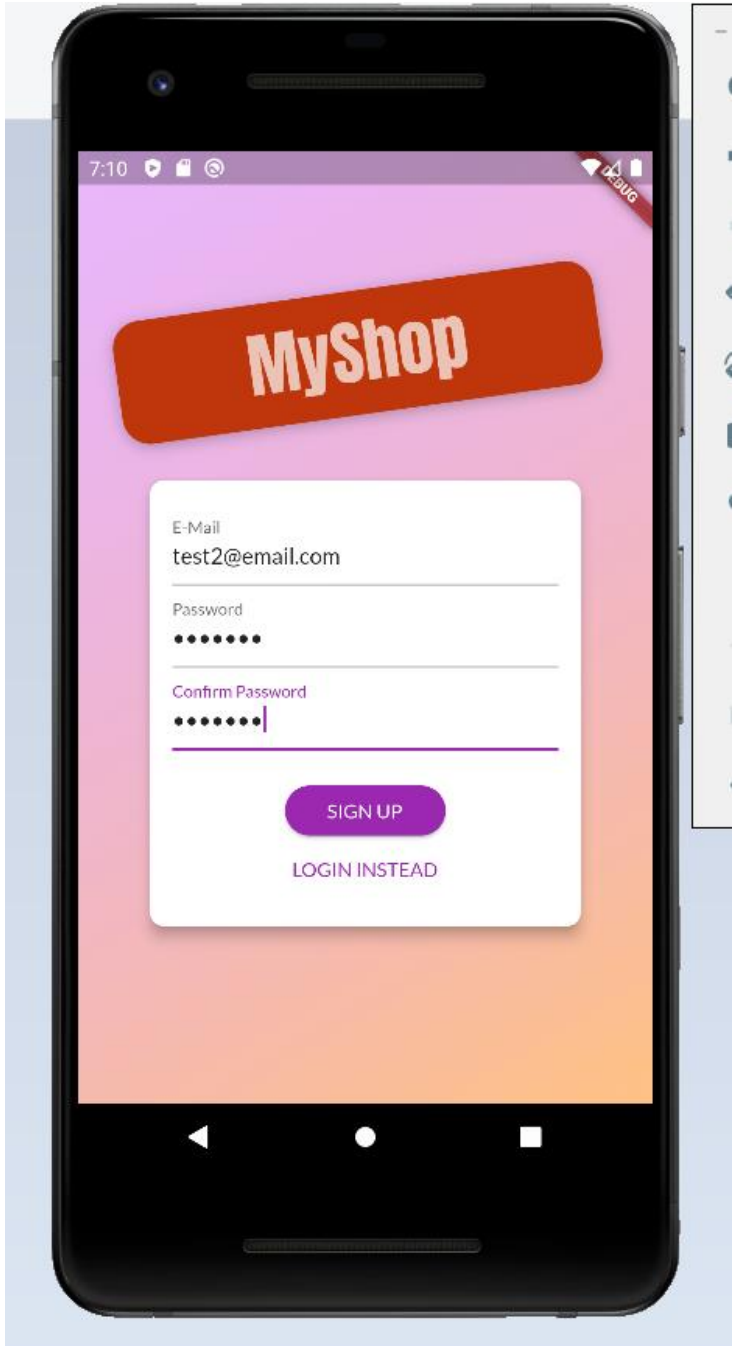

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > products.dart > Products > addProduct
84 }
85 }
86
87 Future<void> addProduct(Product product) async {
88 final url =
89 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken';
90 try {
91 final response = await http.post(
92 Uri.parse(url),
93 body: json.encode({
94 'title': product.title,
95 'description': product.description,
96 'imageUrl': product.imageUrl,
97 'price': product.price,
98 }),
99);
100 final newProduct = Product(
101 title: product.title,
102 description: product.description,
103 price: product.price,
104 imageUrl: product.imageUrl,
105 id: json.decode(response.body)['name'],
Debug my code
Ln 98, Col 1 (158 selected)
Spaces: 2
UTF-8
CRLF
Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator)
Prettier

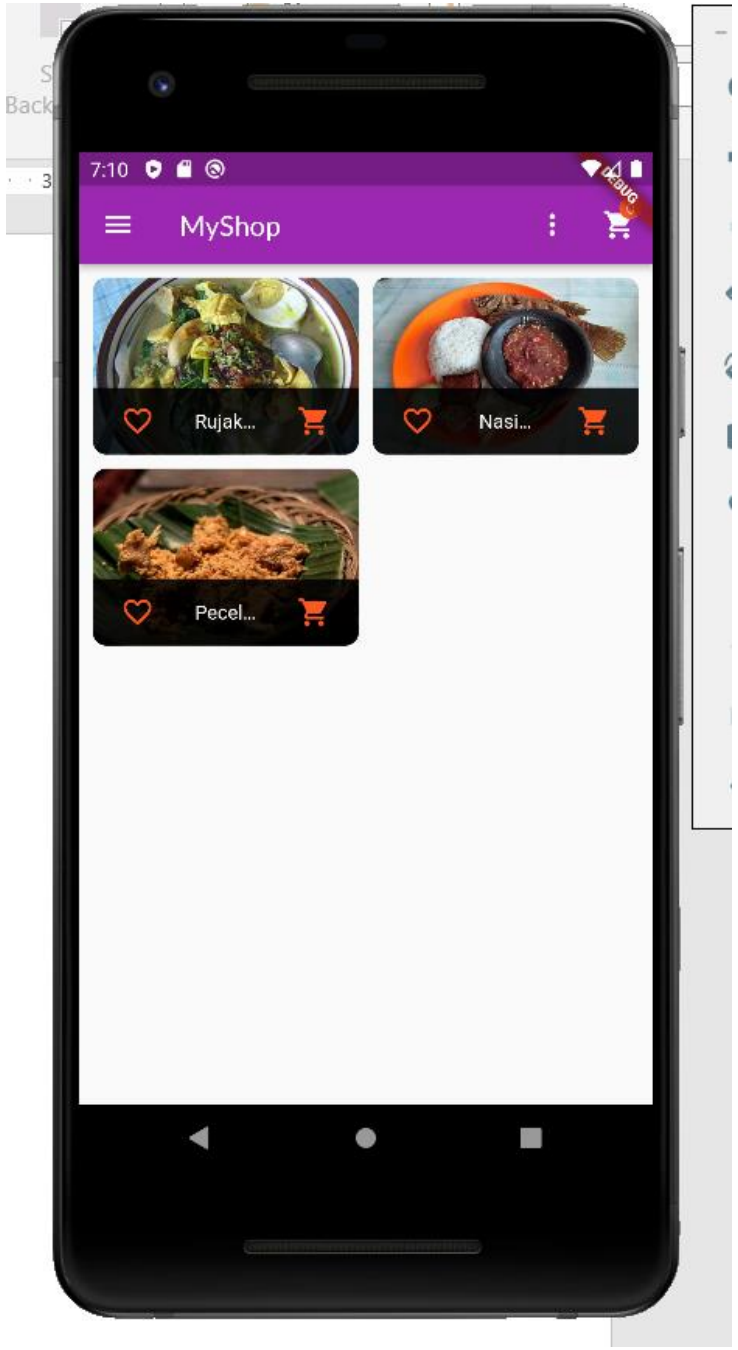

File Edit Selection View Go Run Terminal Help
• products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 2
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > products.dart > Products
39 // price: 49.99,
40 // imageUrl:
41 // 'https://upload.wikimedia.org/wikipedia/commons/thumb/1/14/Cast-Iron-Pan.jpg/1024px-Cast-Iron
42 //),
43];
44 final String authToken;
45 final String userId;
46
47 Products(this.authToken, this.userId, this._items);
48
49 List<Product> get items {
50 return [..._items];
51 }
52
53 List<Product> get favoriteItems {
54 return _items.where((prodItem) => prodItem.isFavorite).toList();
55 }
56
57 Product findById(String id) {
58 return _items.firstWhere((prod) => prod.id == id);
59 }
60
2 0 152
Debug my code
Ln 45, Col 1 (81 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

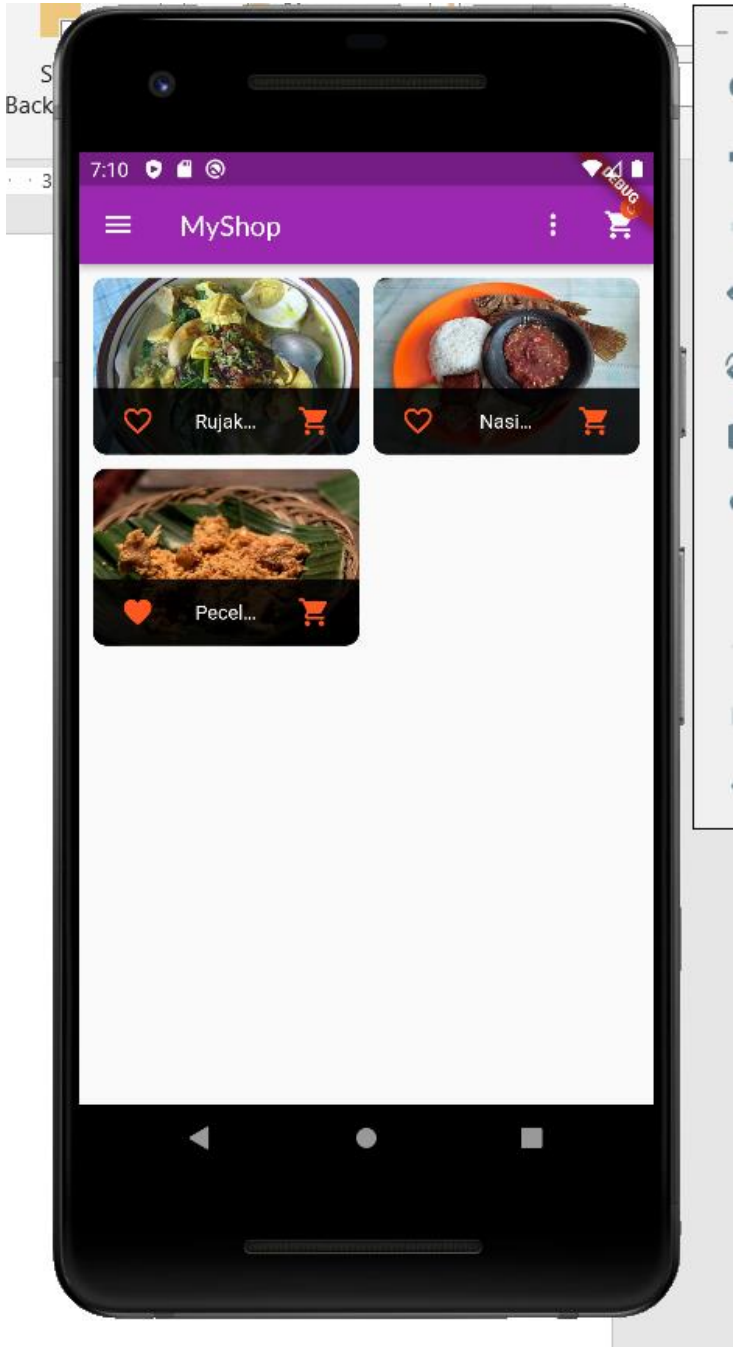

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 2
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > products.dart > Products
60
61 Future<void> fetchAndSetProducts([bool filterByUser = false]) async {
62 final filterString =
63 filterByUser ? 'orderBy="creatorId"&equalTo="$userId"' : '';
64 var url =
65 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken&$filterSt
66 try {
67 final response = await http.get(Uri.parse(url));
68 final extractedData = json.decode(response.body) as Map<String, dynamic>;
69 if (extractedData == null) {
70 return;
71 }
72 url =
73 'https://flutter-update.firebaseio.com/userFavorites/$userId.json?auth=$authToken';
74 final favoriteResponse = await http.get(Uri.parse(url));
75 final favoriteData = json.decode(favoriteResponse.body);
76 final List<Product> loadedProducts = [];
77 extractedData.forEach((prodId, prodData) {
78 loadedProducts.add(Product(
79 id: prodId,
80 title: prodData['title'],
81 description: prodData['description'],
Debug my code
Ln 94, Col 1 (1307 selected)
Spaces: 2
UTF-8
CRLF
Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator)
Prettier

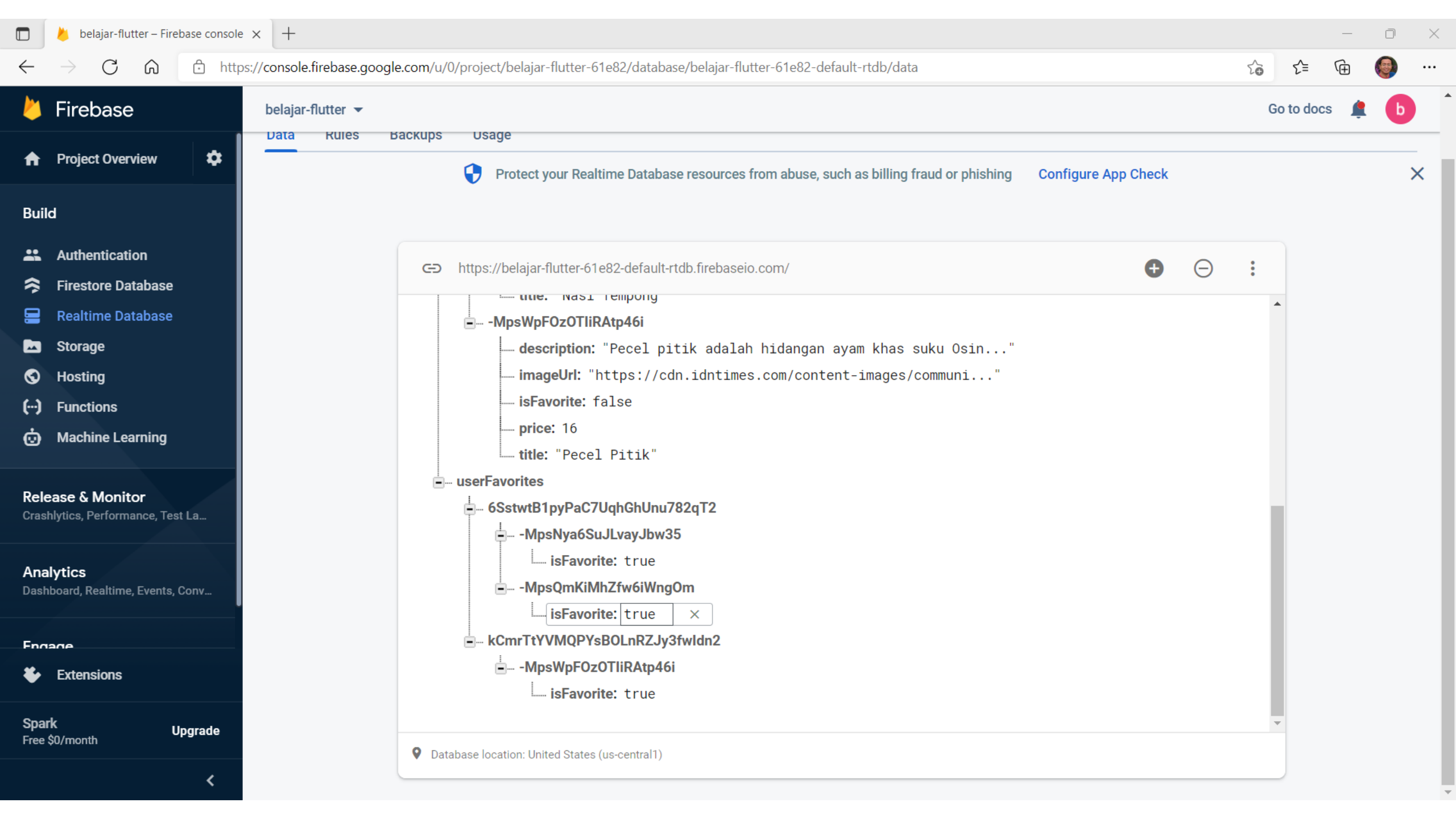

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart 2
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > products.dart > Products
final List<Product> loadedProducts = [];
extractedData.forEach((prodId, prodData) {
loadedProducts.add(Product(
id: prodId,
title: prodData['title'],
description: prodData['description'],
price: prodData['price'],
isFavorite:
favoriteData == null ? false : favoriteData[prodId] ?? false,
imageUrl: prodData['imageUrl'],
));
});
_items = loadedProducts;
notifyListeners();
} catch (error) {
throw (error);
}
}
Future<void> addProduct(Product product) async {
final url =
'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken';
Debug my code
Ln 94, Col 1 (1307 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
main.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > main.dart > MyApp > build
providers: [
ChangeNotifierProvider(
create: (ctx) => Auth(),
), // ChangeNotifierProvider
ChangeNotifierProxyProvider<Auth, Products>(
update: (ctx, auth, previousProducts) => Products(
auth.token,
auth.userId,
previousProducts == null ? [] : previousProducts.items,
), // Products
), // ChangeNotifierProxyProvider
ChangeNotifierProvider(
create: (ctx) => Cart(),
), // ChangeNotifierProvider
ChangeNotifierProxyProvider<Auth, Orders>(
update: (ctx, auth, previousOrders) => Orders(
auth.token,
previousOrders == null ? [] : previousOrders.orders,
), // Orders
), // ChangeNotifierProxyProvider
],
child: Consumer<Auth>(
0 0 152
Debug my code
Ln 33, Col 1 (262 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier

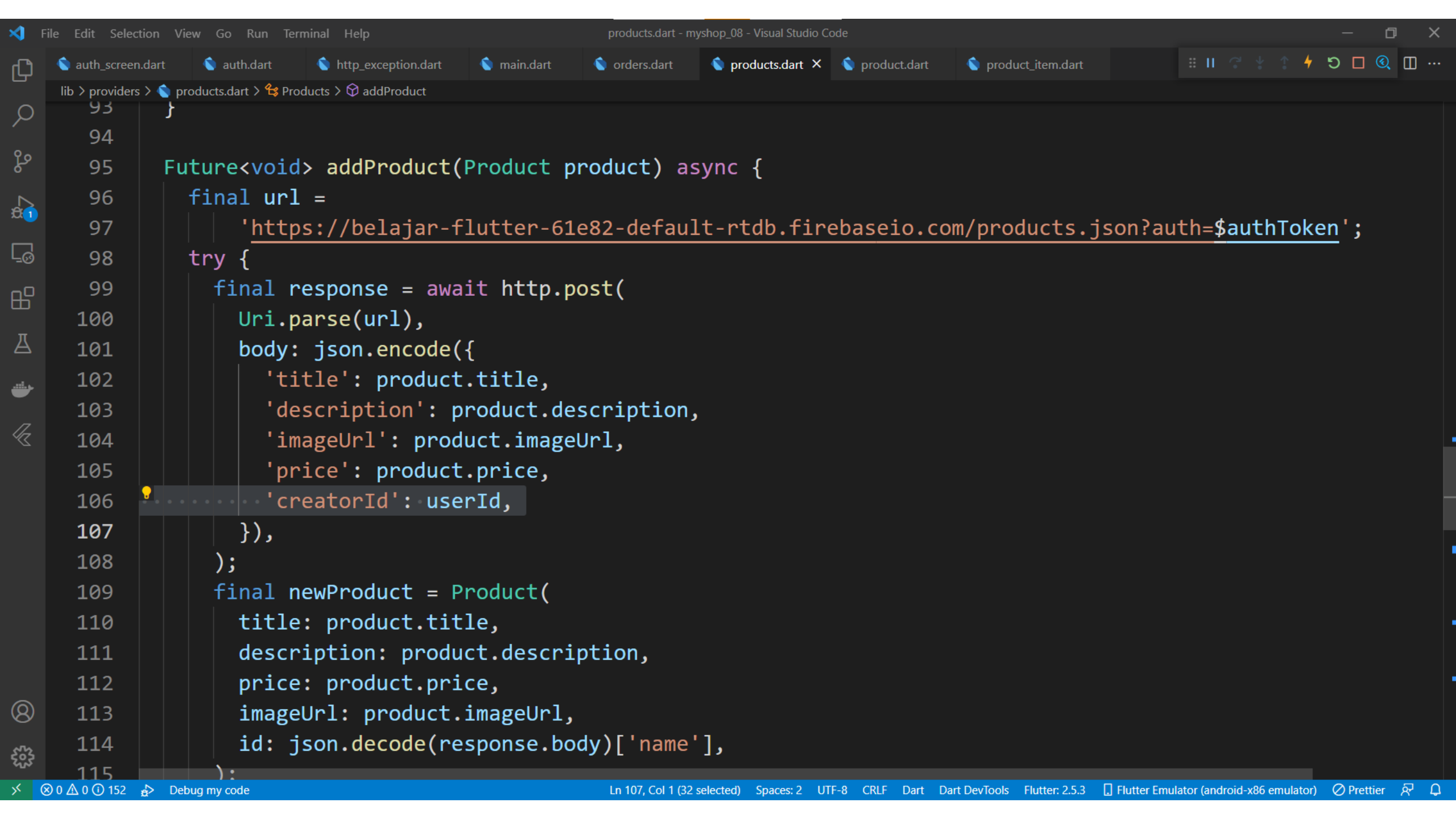

7:10
DEBUG
MyShop
E-Mail
test2@email.com
Password
Confirm Password
SIGN UP
LOGIN INSTEAD

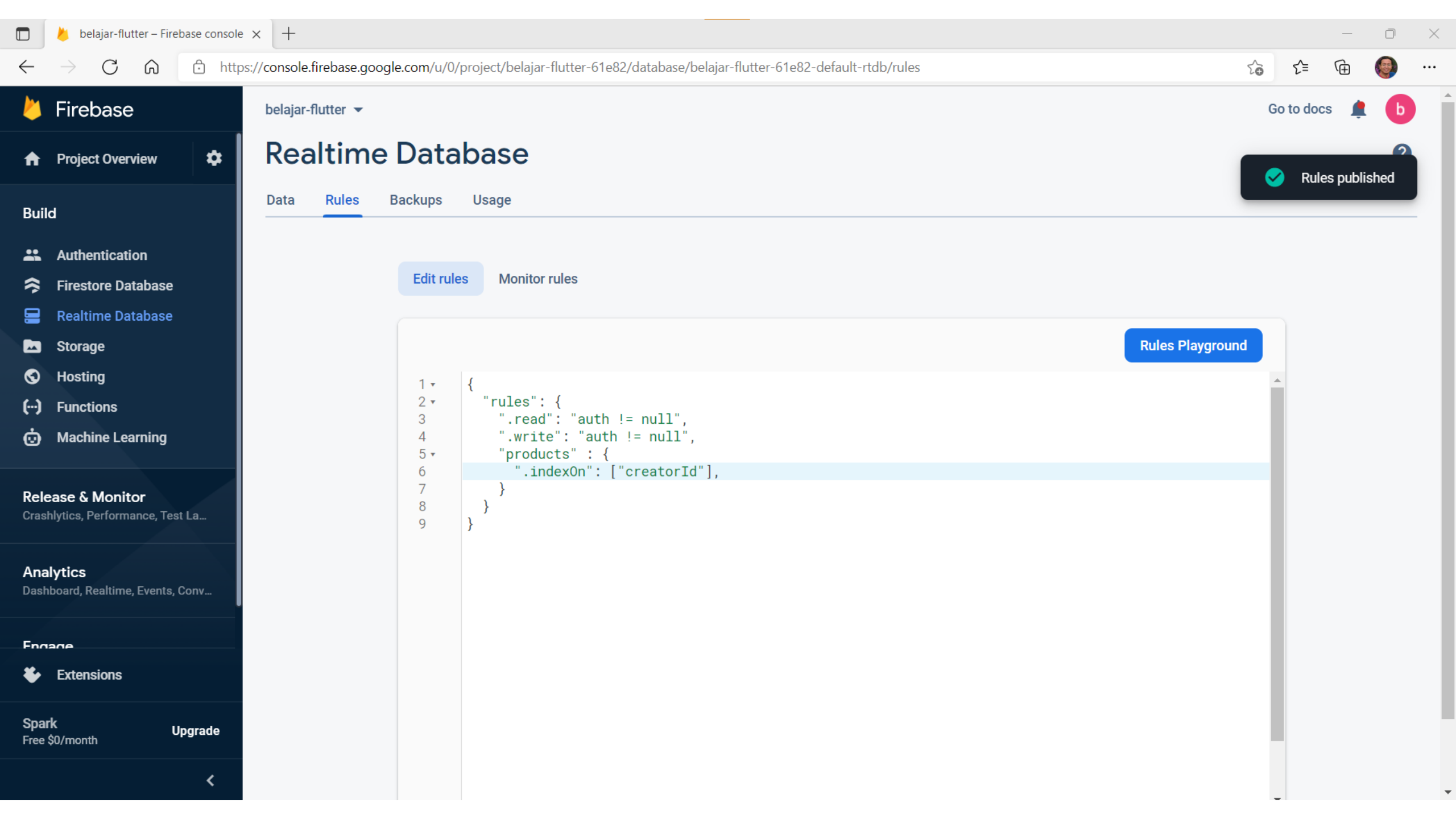

7:10
DEBUG
MyShop
Rujak...
Nasi...
Pecel...

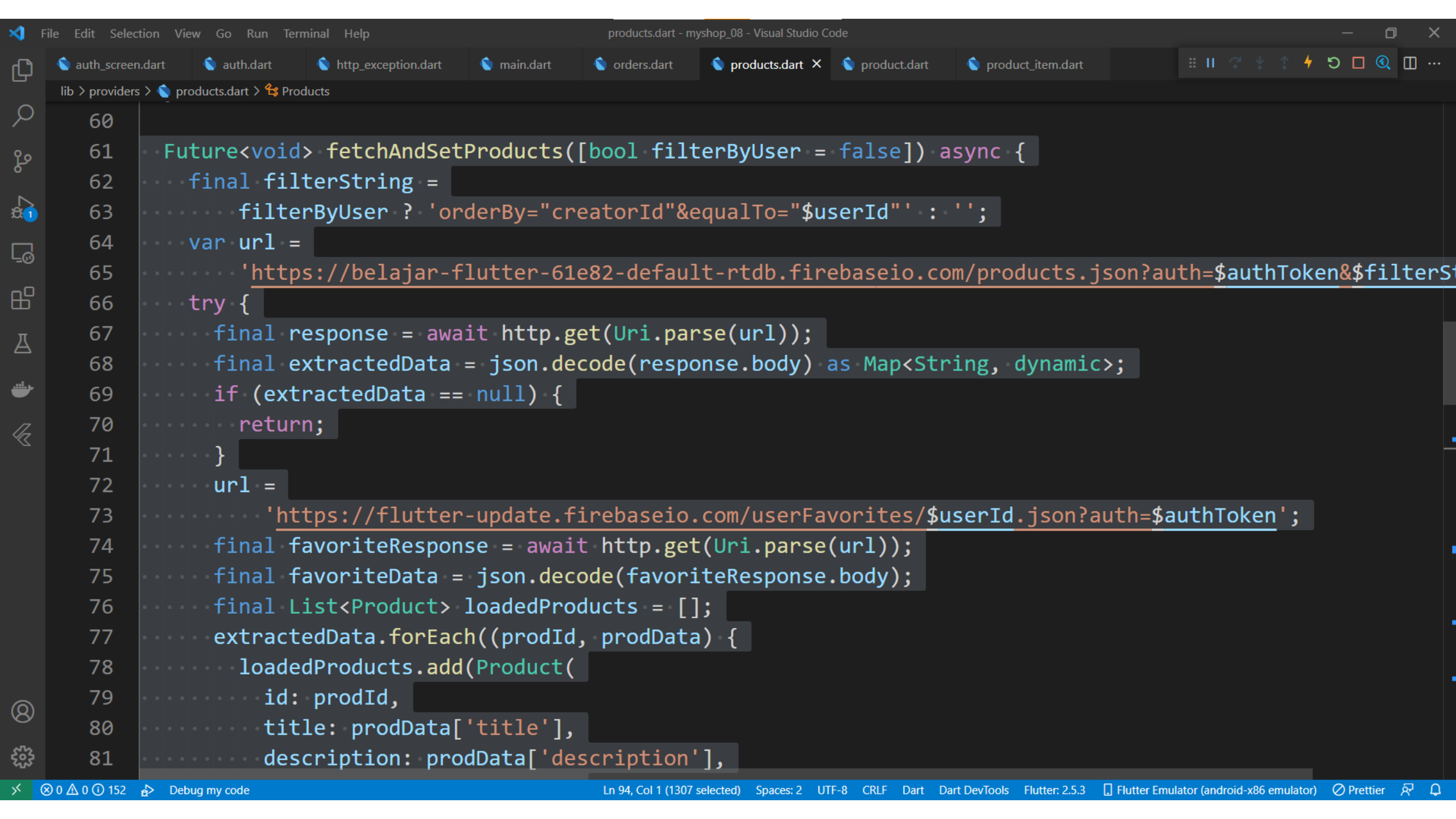

7:10
DEBUG
MyShop
Rujak...
Nasi...
Pecel...

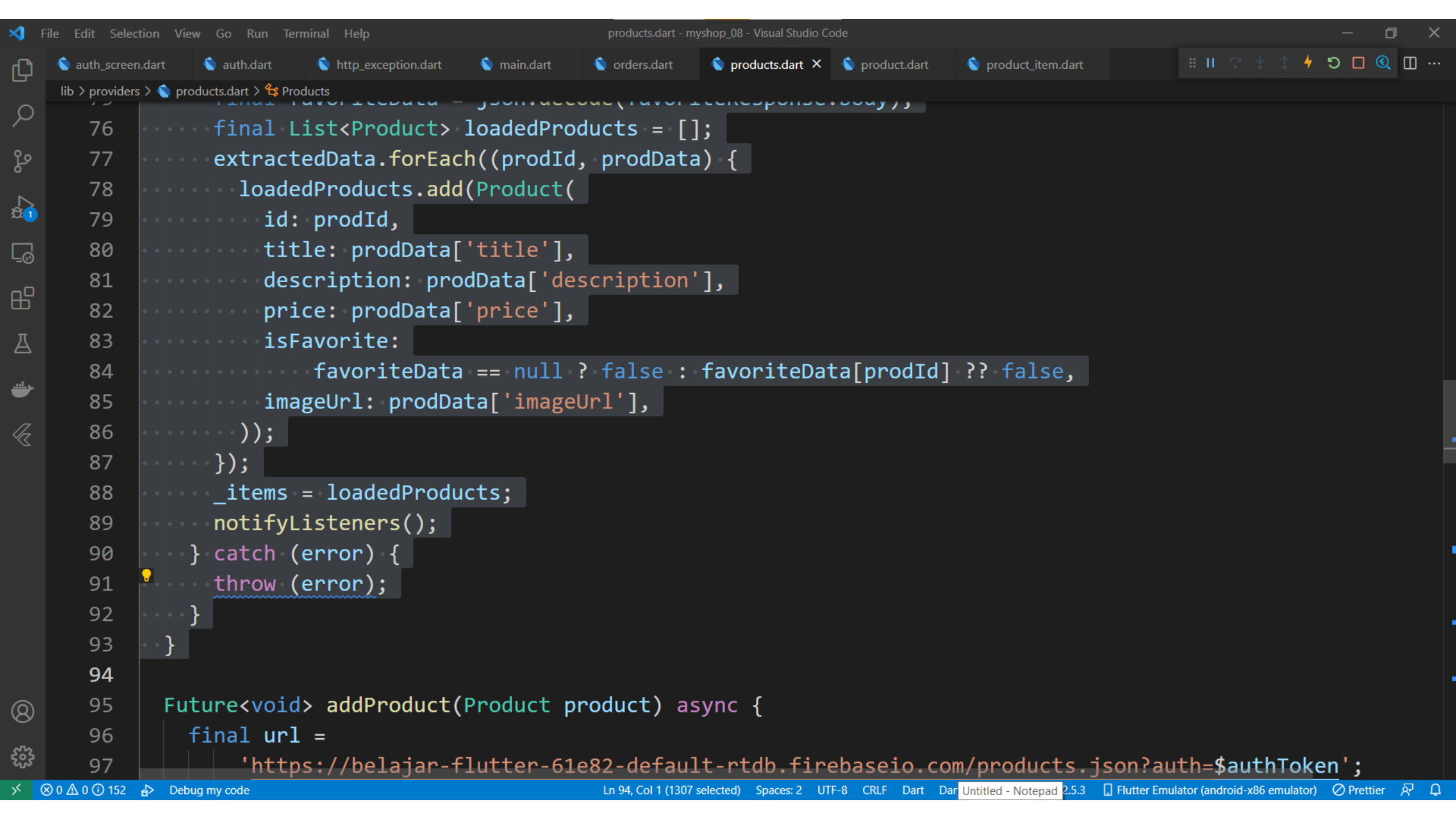

belajar-flutter – Firebase console
https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/database/belajar-flutter-61e82-default-rtdb/data
Firebase
belajar-flutter
Go to docs
Project Overview
Build
Authentication
Firestore Database
Realtime Database
Storage
Hosting
Functions
Machine Learning
Release & Monitor
Crashlytics, Performance, Test La...
Analytics
Dashboard, Realtime, Events, Conv...
Extensions
Spark
Free $0/month
Upgrade
Data
Rules
Backups
Usage
Protect your Realtime Database resources from abuse, such as billing fraud or phishing
Configure App Check
https://belajar-flutter-61e82-default-rtdb.firebaseio.com/
-MpsWpFOzOTliRAtp46i
description: "Pecel pitik adalah hidangan ayam khas suku Osin..."
imageUrl: "https://cdn.idntimes.com/content-images/communi..."
isFavorite: false
price: 16
title: "Pecel Pitik"
userFavorites
6SstwtB1pyPaC7UqhGhUnu782qT2
-MpsNya6SuJLvayJbw35
isFavorite: true
-MpsQmKiMhZfw6iWngOm
isFavorite: true
kCmrTtYVMQPYsBOLnRZJy3fwIdn2
-MpsWpFOzOTliRAtp46i
isFavorite: true
Database location: United States (us-central1)

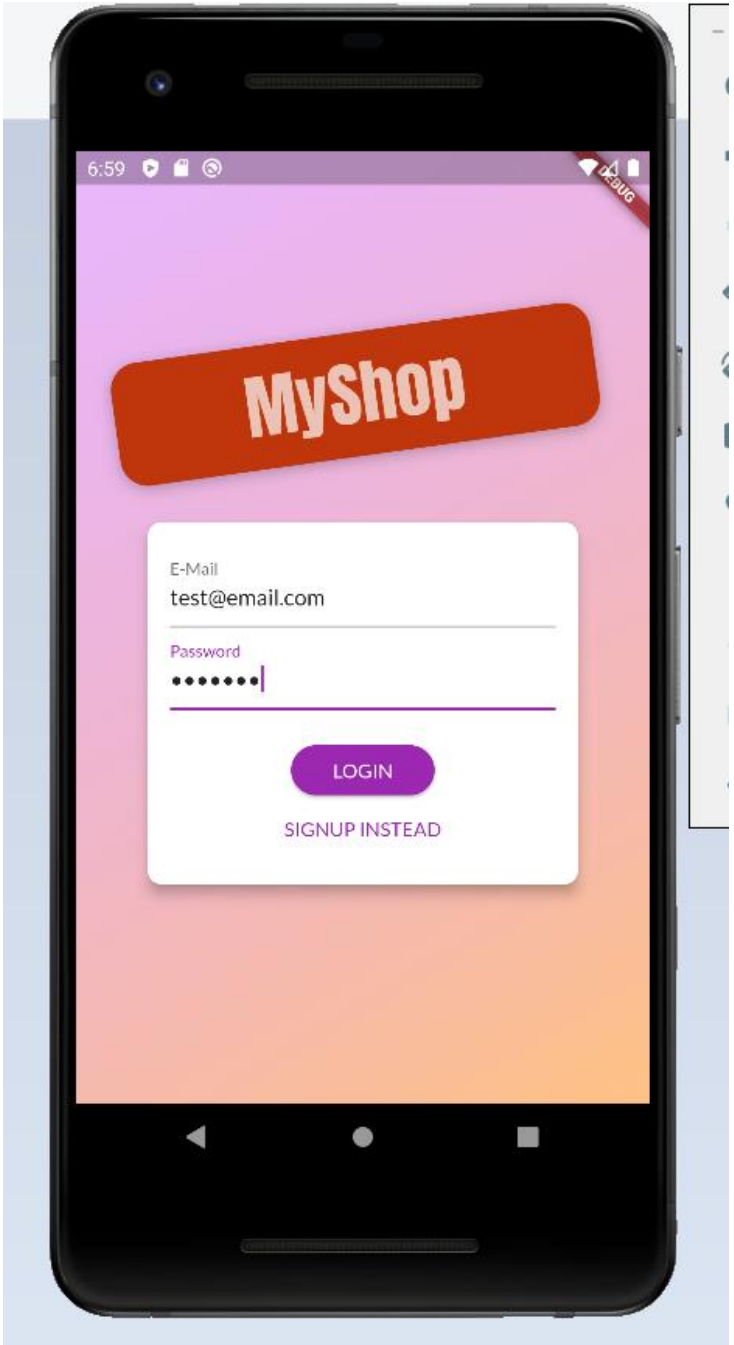
ATTACHING PRODUCTS TO USERS AND FILTERING BY CREATOR

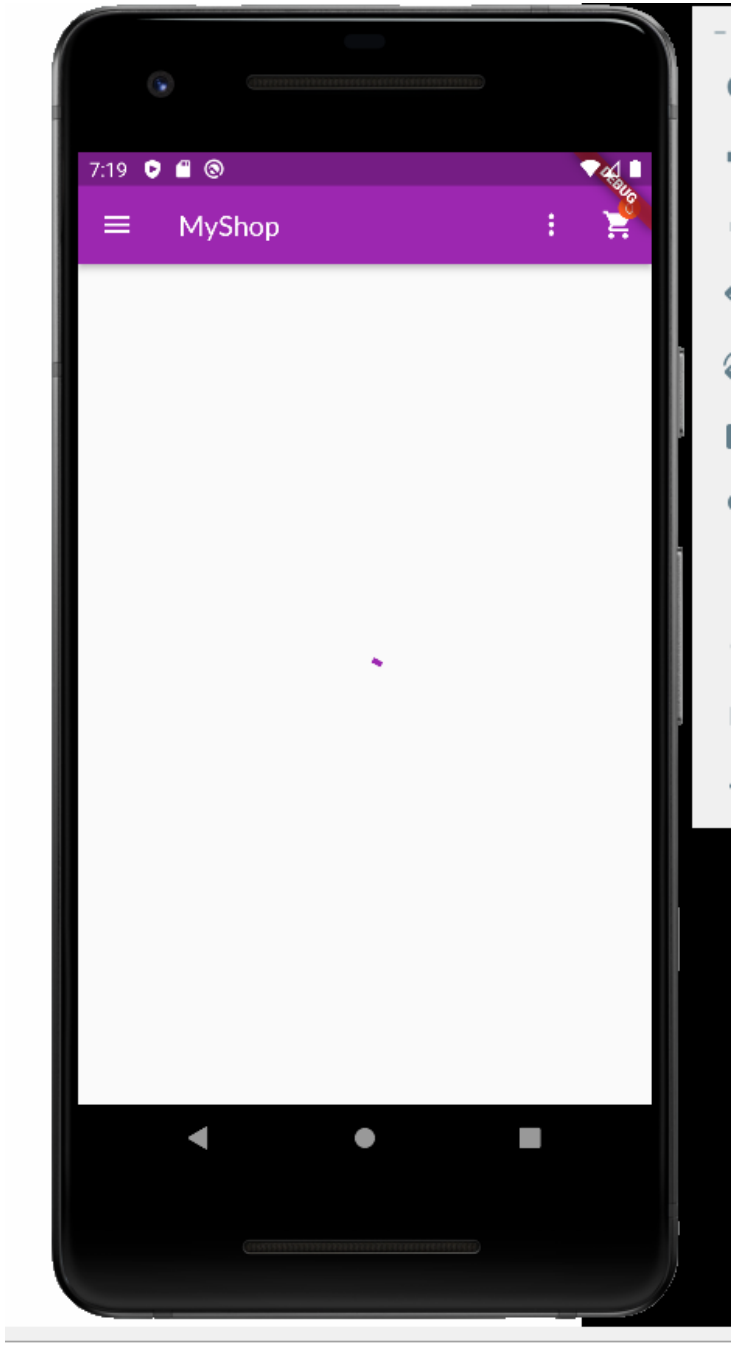

File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > products.dart > Products > addProduct
}
Future<void> addProduct(Product product) async {
final url =
'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken';
try {
final response = await http.post(
Uri.parse(url),
body: json.encode({
'title': product.title,
'description': product.description,
'imageUrl': product.imageUrl,
'price': product.price,
'creatorId': userId,
}),
);
final newProduct = Product(
title: product.title,
description: product.description,
price: product.price,
imageUrl: product.imageUrl,
id: json.decode(response.body)['name'],
);
0 0 152
Debug my code
Ln 107, Col 1 (32 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


belajar-flutter – Firebase console
https://console.firebase.google.com/u/0/project/belajar-flutter-61e82/database/belajar-flutter-61e82-default-rtdb/rules
Firebase
belajar-flutter
Go to docs
Project Overview
Realtime Database
Rules published
Build
Authentication
Firestore Database
Realtime Database
Storage
Hosting
Functions
Machine Learning
Data
Rules
Backups
Usage
Release & Monitor
Crashlytics, Performance, Test La...
Edit rules
Monitor rules
Analytics
Dashboard, Realtime, Events, Conv...
Rules Playground
Extensions
Spark
Free $0/month
Upgrade
{
"rules": {
".read": "auth != null",
".write": "auth != null",
"products" : {
".indexOn": ["creatorId"],
}
}
}


File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > products.dart > Products
60
61 Future<void> fetchAndSetProducts([bool filterByUser = false]) async {
62 final filterString =
63 filterByUser ? 'orderBy="creatorId"&equalTo="$userId"' : '';
64 var url =
65 'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken&$filterSt
66 try {
67 final response = await http.get(Uri.parse(url));
68 final extractedData = json.decode(response.body) as Map<String, dynamic>;
69 if (extractedData == null) {
70 return;
71 }
72 url =
73 'https://flutter-update.firebaseio.com/userFavorites/$userId.json?auth=$authToken';
74 final favoriteResponse = await http.get(Uri.parse(url));
75 final favoriteData = json.decode(favoriteResponse.body);
76 final List<Product> loadedProducts = [];
77 extractedData.forEach((prodId, prodData) {
78 loadedProducts.add(Product(
79 id: prodId,
80 title: prodData['title'],
81 description: prodData['description'],
0 0 152
Debug my code
Ln 94, Col 1 (1307 selected)
Spaces: 2
UTF-8
CRLF
Dart
Dart DevTools
Flutter: 2.5.3
Flutter Emulator (android-x86 emulator)
Prettier


File Edit Selection View Go Run Terminal Help
products.dart - myshop_08 - Visual Studio Code
auth_screen.dart
auth.dart
http_exception.dart
main.dart
orders.dart
products.dart
product.dart
product_item.dart
lib > providers > products.dart > Products
final List<Product> loadedProducts = [];
extractedData.forEach((prodId, prodData) {
loadedProducts.add(Product(
id: prodId,
title: prodData['title'],
description: prodData['description'],
price: prodData['price'],
isFavorite:
favoriteData == null ? false : favoriteData[prodId] ?? false,
imageUrl: prodData['imageUrl'],
));
});
_items = loadedProducts;
notifyListeners();
} catch (error) {
throw (error);
}
}
Future<void> addProduct(Product product) async {
final url =
'https://belajar-flutter-61e82-default-rtdb.firebaseio.com/products.json?auth=$authToken';
Debug my code
Ln 94, Col 1 (1307 selected)
Spaces: 2
UTF-8
CRLF
Dart
Untitled - Notepad
Flutter Emulator (android-x86 emulator)
Prettier


6:59
DEBUG
MyShop
E-Mail
test@email.com
Password
LOGIN
SIGNUP INSTEAD


7:19
DEBUG
MyShop