

User Interaction & Form Input

Interacting with the User,
Collecting Data

What's In This Section?

Showing Dialogs & Snackbars (Info Popups)

Fetching User Input via Forms

Input Validation

SNACKBARS AND UNDOING ADD TO CART ACTIONS

File Edit Selection View Go Run Terminal Help cart.dart - myshop_08 - Visual Studio Code

EXPLORER OPEN EDITORS product_item.dart cart.dart ...

lib > providers > cart.dart > Cart

```
73     notifyListeners();
74 }
75
76 void removeSingleItem(String productId) {
77   if (!_items.containsKey(productId)) {
78     return;
79   }
80   if (_items[productId].quantity > 1) {
81     _items.update(
82       productId,
83       (existingCartItem) => CartItem(
84         id: existingCartItem.id,
85         title: existingCartItem.title,
86         price: existingCartItem.price,
87         quantity: existingCartItem.quantity - 1,
88       ));
89   } else {
90     _items.remove(productId);
91   }
92   notifyListeners();
93 }
94 }
```

providers\cart.dart

File Edit Selection View Go Run Terminal Help

product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... product_item.dart cart.dart

lib > widgets > product_item.dart > ProductItem > build

```
trailing: IconButton(  
    icon: Icon(  
        Icons.shopping_cart,  
    ), // Icon  
    onPressed: () {  
        cart.addItem(product.id, product.price, product.title);  
        Scaffold.of(context).hideCurrentSnackBar();  
        Scaffold.of(context).showSnackBar(  
            SnackBar(  
                content: Text(  
                    'Added item to cart!',  
                ), // Text  
                duration: Duration(seconds: 2),  
                action: SnackBarAction(  
                    label: 'UNDO',  
                    onPressed: () {  
                        cart.removeSingleItem(product.id);  
                    },  
                ), // SnackBarAction  
            ), // SnackBar  
        );  
    },  
}, // ProductItem
```

windows\product_item.dart

File Edit Selection View Go Run Terminal Help

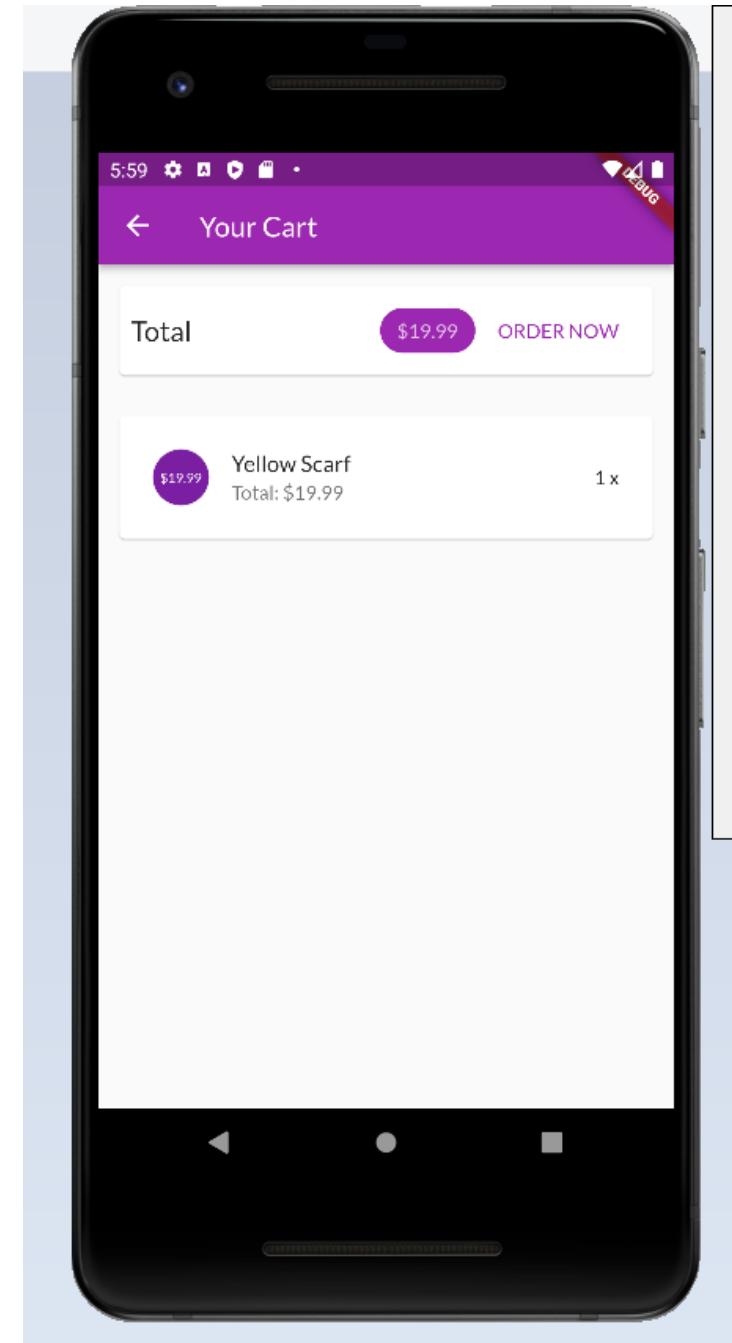
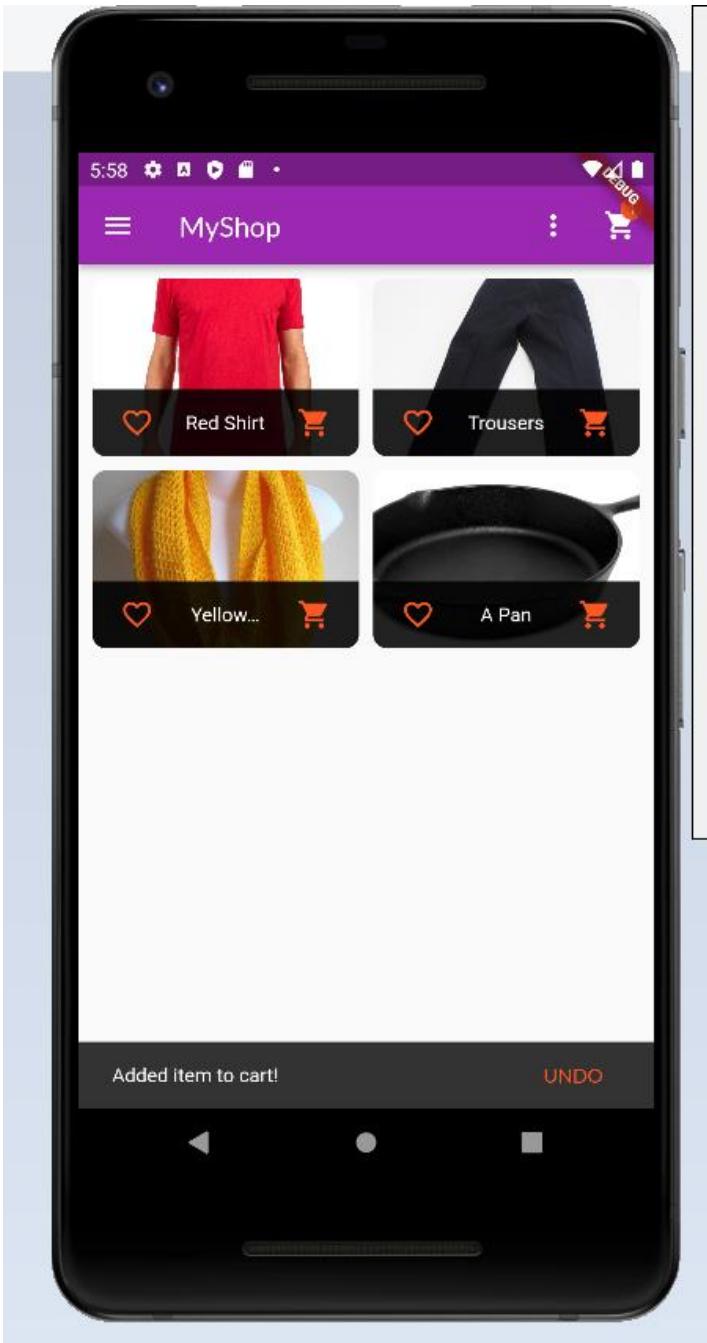
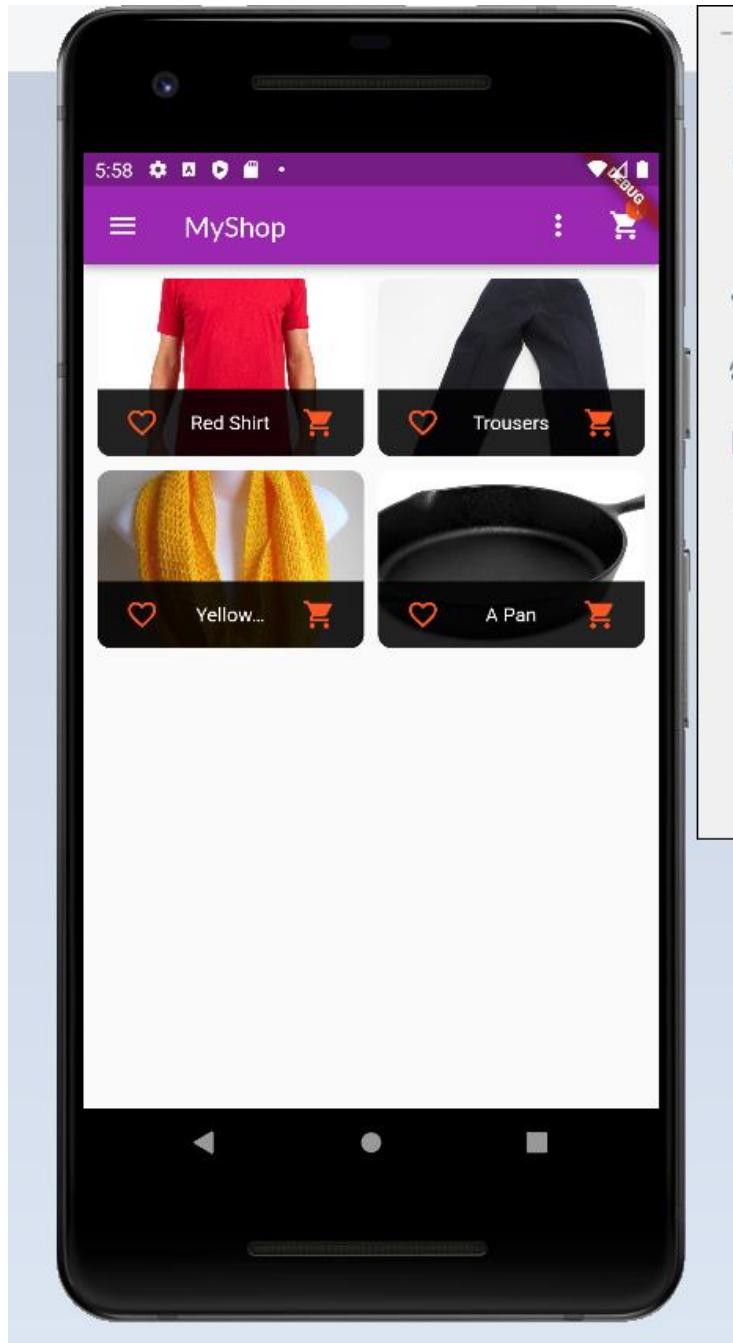
product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... product_item.dart cart.dart

lib > widgets > product_item.dart > ProductItem > build

```
trailing: IconButton(  
    icon: Icon(  
        Icons.shopping_cart,  
    ), // Icon  
    onPressed: () {  
        cart.addItem(product.id, product.price, product.title);  
        Scaffold.of(context).hideCurrentSnackBar();  
        Scaffold.of(context).showSnackBar(  
            SnackBar(  
                content: Text(  
                    'Added item to cart!',  
                ), // Text  
                duration: Duration(seconds: 2),  
                action: SnackBarAction(  
                    label: 'UNDO',  
                    onPressed: () {  
                        cart.removeSingleItem(product.id);  
                    },  
                ), // SnackBarAction  
            ), // SnackBar  
        );  
    },  
}, // ProductItem
```

windows\product_item.dart



SHOWING ALERT DIALOGS

File Edit Selection View Go Run Terminal Help cart_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... product_item.dart cart_item.dart X cart.dart

lib > widgets > cart_item.dart > CartItem > build

```
30     size: 40,
31   ), // Icon
32   alignment: Alignment.centerRight,
33   padding: EdgeInsets.only(right: 20),
34   margin: EdgeInsets.symmetric(
35     horizontal: 15,
36     vertical: 4,
37   ), // EdgeInsets.symmetric
38   ), // Container
39   direction: DismissDirection.endToStart,
40   confirmDismiss: (direction) {
41     return showDialog(
42       context: context,
43       builder: (ctx) => AlertDialog(
44         title: Text('Are you sure?'),
45         content: Text(
46           'Do you want to remove the item from the cart?',
47         ), // Text
48         actions: <Widget>[
49           FlatButton(
50             child: Text('No'),
51             onPressed: () {
```

windows\cart_item.dart

Ln 65, Col 1 (737 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help cart_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... product_item.dart cart_item.dart X cart.dart

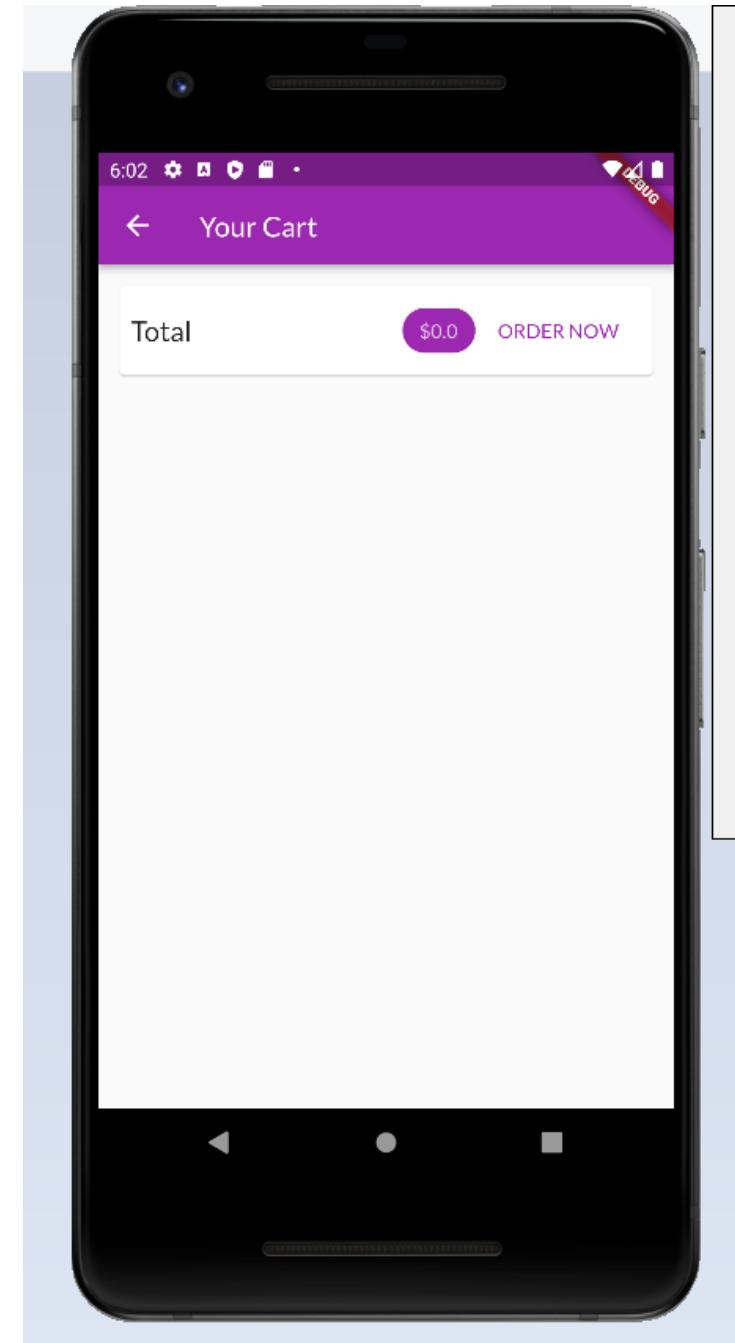
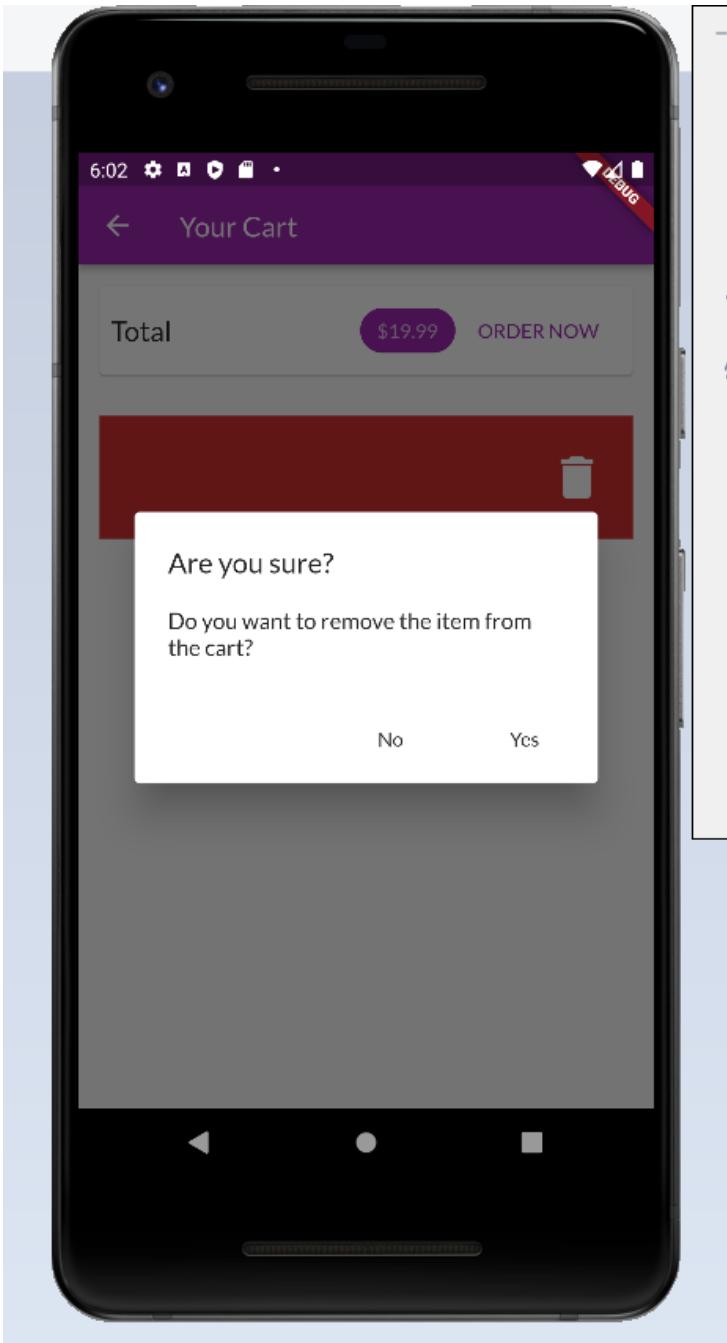
lib > widgets > cart_item.dart > CartItem > build

```
46          'Do you want to remove the item from the cart?',
47          ), // Text
48          actions: <Widget>[
49            FlatButton(
50              child: Text('No'),
51              onPressed: () {
52                Navigator.of(ctx).pop(false);
53              },
54            ), // FlatButton
55            FlatButton(
56              child: Text('Yes'),
57              onPressed: () {
58                Navigator.of(ctx).pop(true);
59              },
60            ), // FlatButton
61          ], // <Widget>[]
62        ), // AlertDialog
63      );
64    },
65    onDismissed: (direction) {
66      Provider.of<Cart>(context, listen: false).removeItem(productId);
67    },

```

widgets\cart_item.dart

Ln 65, Col 1 (737 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



ADDING A MANAGE PRODUCTS PAGE

File Edit Selection View Go Run Terminal Help user_product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... user_products_screen.dart user_product_item.dart X lib > widgets > user_product_item.dart > ...

OPEN EDITORS user_products_screen.dart lib\scr... user_product_item.dart lib\widgets

MYSHOP_08 > ios lib models providers screens widgets test web .gitignore .metadata .packages

user_product_item.dart

```
1 import 'package:flutter/material.dart';
2
3 class UserProductItem extends StatelessWidget {
4   final String title;
5   final String imageUrl;
6
7   UserProductItem(this.title, this.imageUrl);
8
9   @override
10  Widget build(BuildContext context) {
11    return ListTile(
12      title: Text(title),
13      leading: CircleAvatar(
14        backgroundImage: NetworkImage(imageUrl),
15      ), // CircleAvatar
16      trailing: Container(
17        width: 100,
18        child: Row(
19          children: <Widget>[
20            IconButton(
21              icon: Icon(Icons.edit),
22              onPressed: () {},
```

windows\user_product_item.dart

Ln 36, Col 1 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help user_product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... user_products_screen.dart user_product_item.dart X lib > widgets > user_product_item.dart > ...

OPEN EDITORS user_products_screen.dart lib\scr... user_product_item.dart lib\widgets

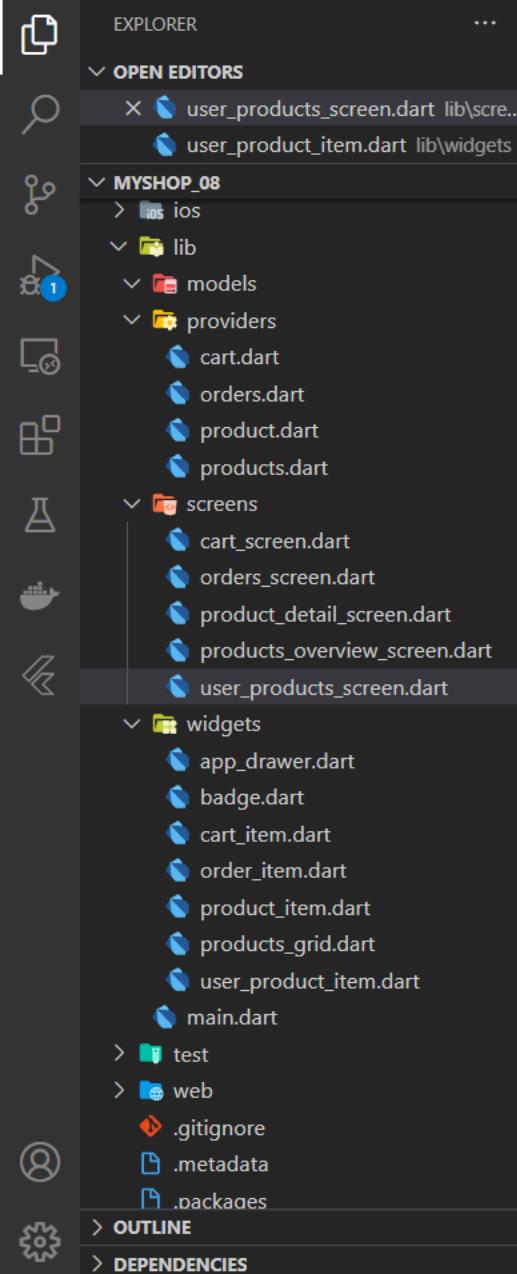
MYSHOP_08 > ios lib models providers cart.dart orders.dart product.dart products.dart screens cart_screen.dart orders_screen.dart product_detail_screen.dart products_overview_screen.dart user_products_screen.dart widgets app_drawer.dart badge.dart cart_item.dart order_item.dart product_item.dart products_grid.dart user_product_item.dart main.dart test web .gitignore .metadata .packages

OUTLINE DEPENDENCIES

15), // CircleAvatar
16 trailing: Container(
17 width: 100,
18 child: Row(
19 children: <Widget>[
20 IconButton(
21 icon: Icon(Icons.edit),
22 onPressed: () {},
23 color: Theme.of(context).primaryColor,
24), // IconButton
25 IconButton(
26 icon: Icon(Icons.delete),
27 onPressed: () {},
28 color: Theme.of(context).errorColor,
29), // IconButton
30], // <Widget>[]
31), // Row
32), // Container
33); // ListTile
34 }
35 }
36 }

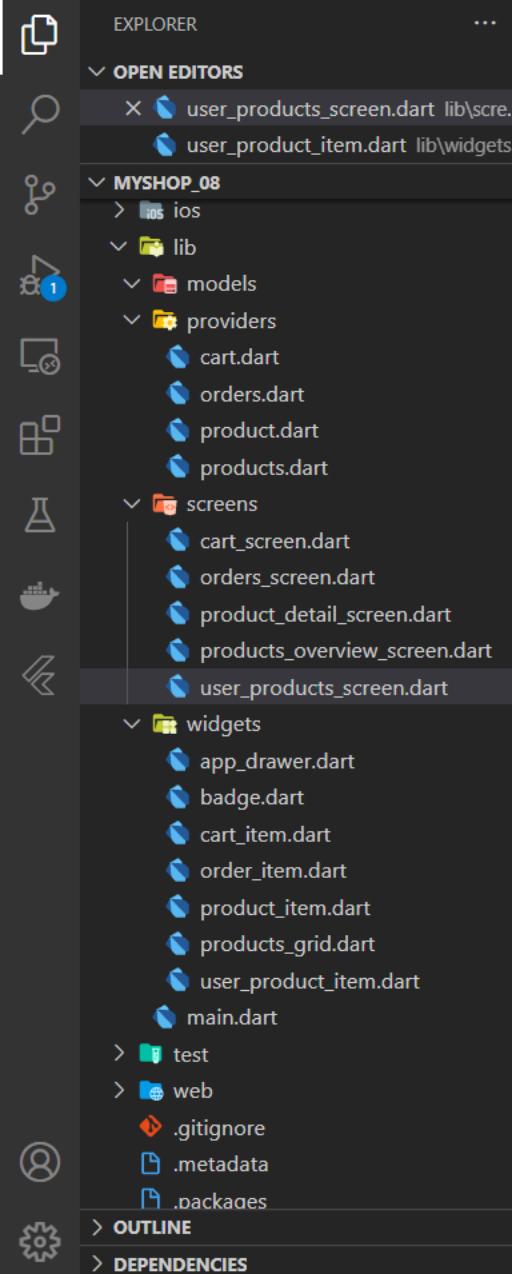
wIDGETS\USER_PRODUCT_ITEM.DART

Ln 36, Col 1 Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



```
1 import 'package:flutter/material.dart';
2 import 'package:provider/provider.dart';
3
4 import '../providers/products.dart';
5 import '../widgets/user_product_item.dart';
6 import '../widgets/app_drawer.dart';
7
8 class UserProductsScreen extends StatelessWidget {
9     static const routeName = '/user-products';
10
11 @override
12 Widget build(BuildContext context) {
13     final productsData = Provider.of<Products>(context);
14     return Scaffold(
15         appBar: AppBar(
16             title: const Text('Your Products'),
17             actions: <Widget>[
18                 IconButton(
19                     icon: const Icon(Icons.add),
20                     onPressed: () {
21                         // ...
22                     },
23                 ),
24             ],
25         ),
26         body: ListView.builder(
27             itemCount: productsData.items.length,
28             itemBuilder: (ctx, i) {
29                 return UserProductItem(
30                     product: productsData.items[i],
31                 );
32             },
33         ),
34     );
35 }
36
```

screens\edit_product_screen.dart



```
15     appBar: AppBar(
16       title: const Text('Your Products'),
17       actions: <Widget>[
18         IconButton(
19           icon: const Icon(Icons.add),
20           onPressed: () {
21             // ...
22           },
23         ), // IconButton
24       ], // <Widget>[]
25     ), // AppBar
26     drawer: AppDrawer(),
27     body: Padding(
28       padding: EdgeInsets.all(8),
29       child: ListView.builder(
30         itemCount: productsData.items.length,
31         itemBuilder: (_, i) => Column(
32           children: [
33             UserProductItem(
34               productsData.items[i].title,
35               productsData.items[i].imageUrl,
36             ), // UserProductItem
37           ],
38         ),
39       ),
40     ),
41   ),
42 
```

screens\edit_product_screen.dart

File Edit Selection View Go Run Terminal Help user_products_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... user_products_screen.dart X user_product_item.dart

lib > screens > user_products_screen.dart > ...

24], // <Widget>[]
25), // AppBar
26 drawer: AppDrawer(),
27 body: Padding(
28 padding: EdgeInsets.all(8),
29 child: ListView.builder(
30 itemCount: productsData.items.length,
31 itemBuilder: (_, i) => Column(
32 children: [
33 UserProductItem(
34 productsData.items[i].title,
35 productsData.items[i].imageUrl,
36), // UserProductItem
37 Divider(),
38],
39), // Column
40), // ListView.builder
41), // Padding
42); // Scaffold
43 }
44 }
45

screens\edit_product_screen.dart

Ln 45, Col 1 Spaces: 2 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

EXPLORER ... user_products_screen.dart main.dart user_product_item.dart

lib > main.dart > MyApp > build

26 ChangeNotifierProvider(
27 create: (ctx) => Orders(),
28), // ChangeNotifierProvider
29],
30 child: MaterialApp(
31 title: 'MyShop',
32 theme: ThemeData(
33 primarySwatch: Colors.purple,
34 accentColor: Colors.deepOrange,
35 fontFamily: 'Lato',
36), // ThemeData
37 home: ProductsOverviewScreen(),
38 routes: {
39 ProductDetailScreen.routeName: (ctx) => ProductDetailScreen(),
40 CartScreen.routeName: (ctx) => CartScreen(),
41 OrdersScreen.routeName: (ctx) => OrdersScreen(),
42 UserProductsScreen.routeName: (ctx) => UserProductsScreen(),
43 }), // MaterialApp
44); // MultiProvider
45 }
46 }
47

main.dart

Ln 43, Col 1 (74 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



EXPLORER ...

OPEN EDITORS

- user_products_screen.dart lib\scr...
- main.dart lib
- X app_drawer.dart lib\widgets
- user_product_item.dart lib\widgets

MYSHOP_08

- > ios
- > lib
- > models
- > providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
- > screens
 - cart_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
- > 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
- .aitianore

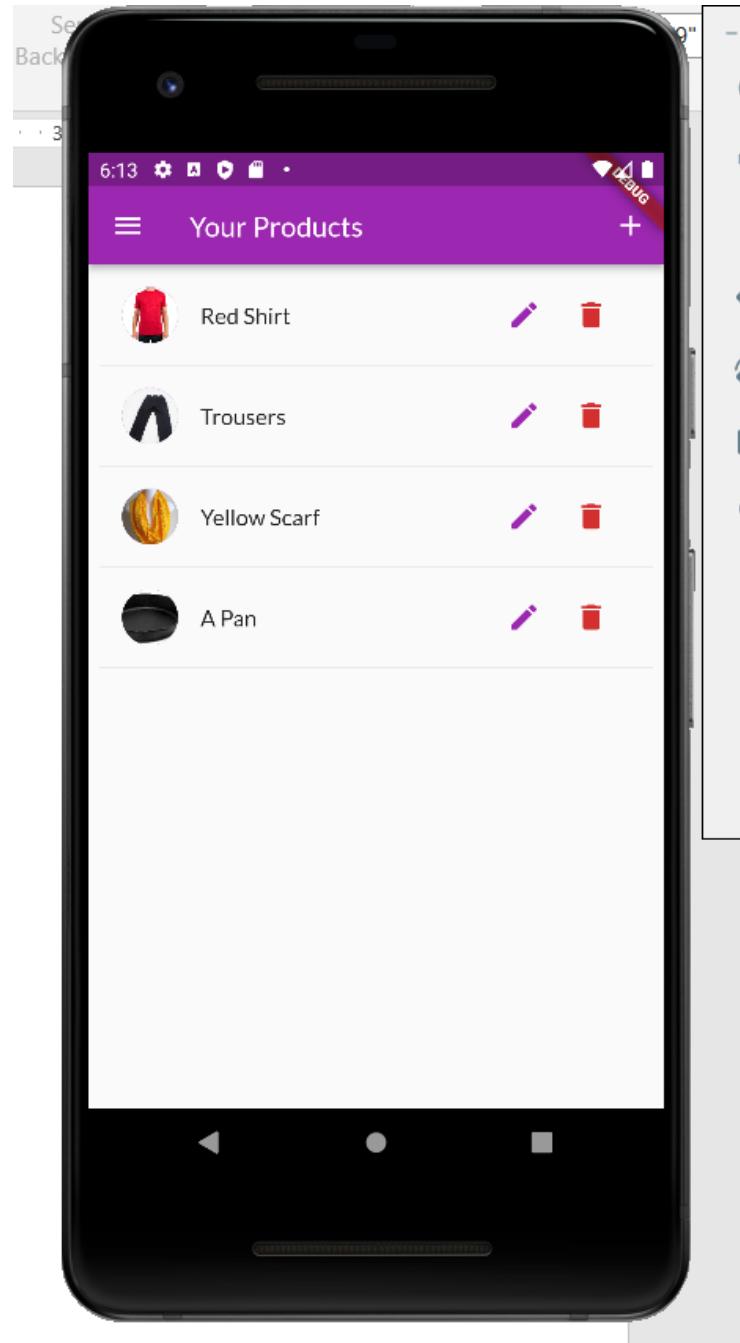
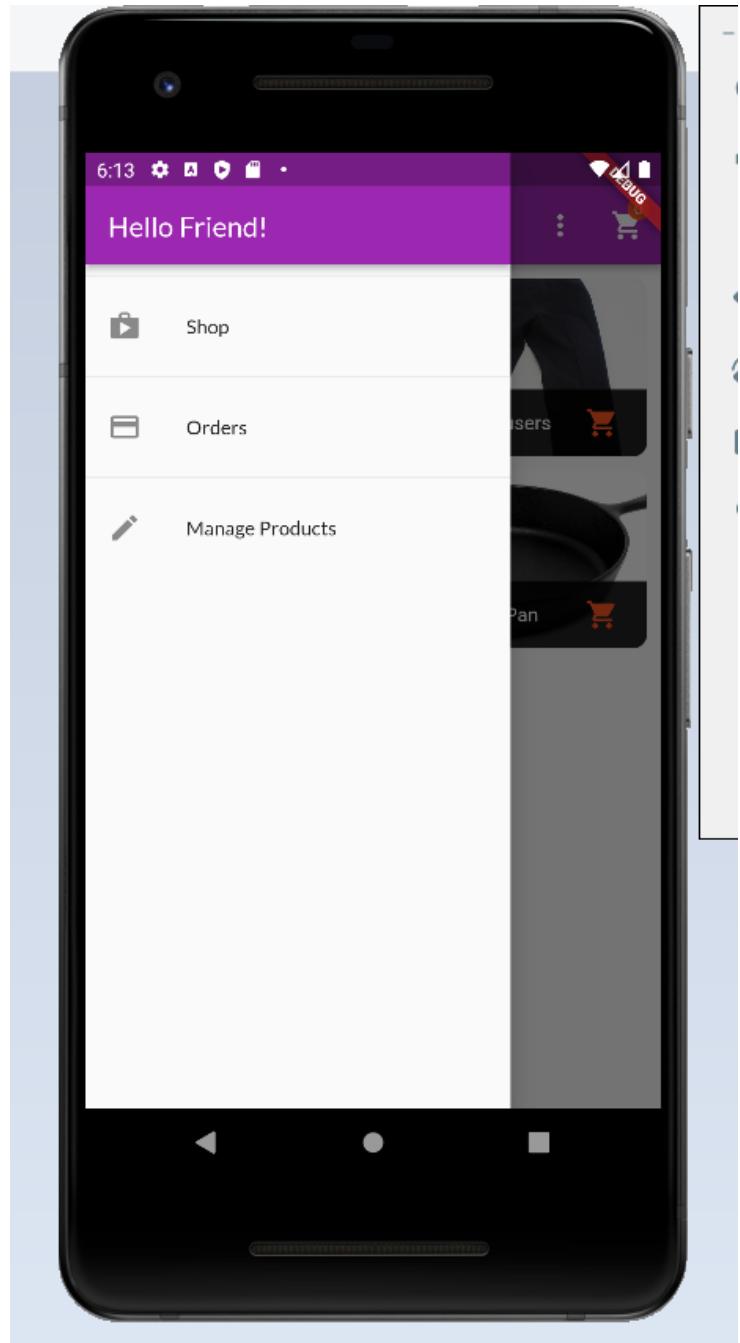
OUTLINE

DEPENDENCIES

lib > widgets > app_drawer.dart > AppDrawer > build

```
21 Navigator.of(context).pushReplacementNamed('/');
22 },
23 ), // ListTile
24 Divider(),
25 ListTile(
26   leading: Icon(Icons.payment),
27   title: Text('Orders'),
28   onTap: () {
29     Navigator.of(context)
30       .pushReplacementNamed(OrdersScreen.routeName);
31   },
32 ), // ListTile
33 Divider(),
34 ListTile(
35   leading: Icon(Icons.edit),
36   title: Text('Manage Products'),
37   onTap: () {
38     Navigator.of(context)
39       .pushReplacementNamed(UserProductsScreen.routeName);
40   },
41 ), // ListTile
42 ], // <Widget>[]
43 ) // Column
```

widgets\app_drawer.dart



**EDIT PRODUCT SCREEN, USING FORMS,
WORKING WITH FORM INPUTS,
AND MANAGING FORM INPUT FOCUS**



EXPLORER

OPEN EDITORS

- edit_product_screen.dart

MYSHOP_08

- .dart_tool
- .idea
- android
- assets
- build
- ios
- lib
 - models
 - providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
 - screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
 - widgets
 - app_drawer.dart
 - badge.dart
 - cart_item.dart
 - order_item.dart
 - product_item.dart
 - products_grid.dart
 - user_product_item.dart
 - main.dart

OUTLINE

DEPENDENCIES

```
1 import 'package:flutter/material.dart';
2
3 class EditProductScreen extends StatefulWidget {
4   static const routeName = '/edit-product';
5
6   @override
7   _EditProductScreenState createState() => _EditProductScreenState();
8 }
9
10 class _EditProductScreenState extends State<EditProductScreen> {
11   final _priceFocusNode = FocusNode();
12
13   @override
14   Widget build(BuildContext context) {
15     return Scaffold(
16       appBar: AppBar(
17         title: Text('Edit Product'),
18       ), // AppBar
19       body: Padding(
20         padding: const EdgeInsets.all(16.0),
21         child: Form(
22           child: ListView(
```

screens\edit_product_screen.dart

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER OPEN EDITORS edit_product_screen.dart X lib > screens > edit_product_screen.dart > _EditProductScreenState > build

MYSHOP_08 .dart_tool .idea android assets build ios lib models providers cart.dart orders.dart product.dart products.dart screens cart_screen.dart edit_product_screen.dart orders_screen.dart product_detail_screen.dart products_overview_screen.dart user_products_screen.dart widgets app_drawer.dart badge.dart cart_item.dart order_item.dart product_item.dart products_grid.dart user_product_item.dart main.dart

OUTLINE DEPENDENCIES

22 child: ListView(23 children: <Widget>[24 TextFormField(25 decoration: InputDecoration(labelText: 'Title'), 26 textInputAction: TextInputAction.next, 27 onFieldSubmitted: (_) { 28 FocusScope.of(context).requestFocus(_priceFocusNode); 29 }, 30 // TextFormField 31 TextFormField(32 decoration: InputDecoration(labelText: 'Price'), 33 textInputAction: TextInputAction.next, 34 keyboardType: TextInputType.number, 35 focusNode: _priceFocusNode, 36), // TextFormField 37], // <Widget>[] 38), // ListView 39), // Form 40), // Padding 41); // Scaffold 42 } 43 }

screens\edit_product_screen.dart

Ln 17, Col 15 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

EXPLORER OPEN EDITORS edit_product_screen.dart main.dart X lib > main.dart > MyApp > build

MYSHOP_08 lib models providers cart.dart orders.dart product.dart products.dart screens cart_screen.dart edit_product_screen.dart orders_screen.dart product_detail_screen.dart products_overview_screen.dart user_products_screen.dart 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

main.dart

```
28     |         create: (ctx) => Orders(),
29     |         ), // ChangeNotifierProvider
30     | ],
31     | child: MaterialApp(
32     |   title: 'MyShop',
33     |   theme: ThemeData(
34     |     primarySwatch: Colors.purple,
35     |     accentColor: Colors.deepOrange,
36     |     fontFamily: 'Lato',
37     |   ), // ThemeData
38     |   home: ProductsOverviewScreen(),
39     |   routes: {
40     |     ProductDetailScreen.routeName: (ctx) => ProductDetailScreen(),
41     |     CartScreen.routeName: (ctx) => CartScreen(),
42     |     OrdersScreen.routeName: (ctx) => OrdersScreen(),
43     |     UserProductsScreen.routeName: (ctx) => UserProductsScreen(),
44     |     ...EditProductScreen.routeName: (ctx) => EditProductScreen(),
45     |   }, // MaterialApp
46     | ); // MultiProvider
47   }
48 }
49 }
```

main.dart

Ln 45, Col 1 (72 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help user_products_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart main.dart user_products_screen.dart X lib > screens > user_products_screen.dart > UserProductsScreen > build

OPEN EDITORS

edit_product_screen.dart lib\scree...
main.dart lib
X user_products_screen.dart lib\scree...

MYSHOP_08

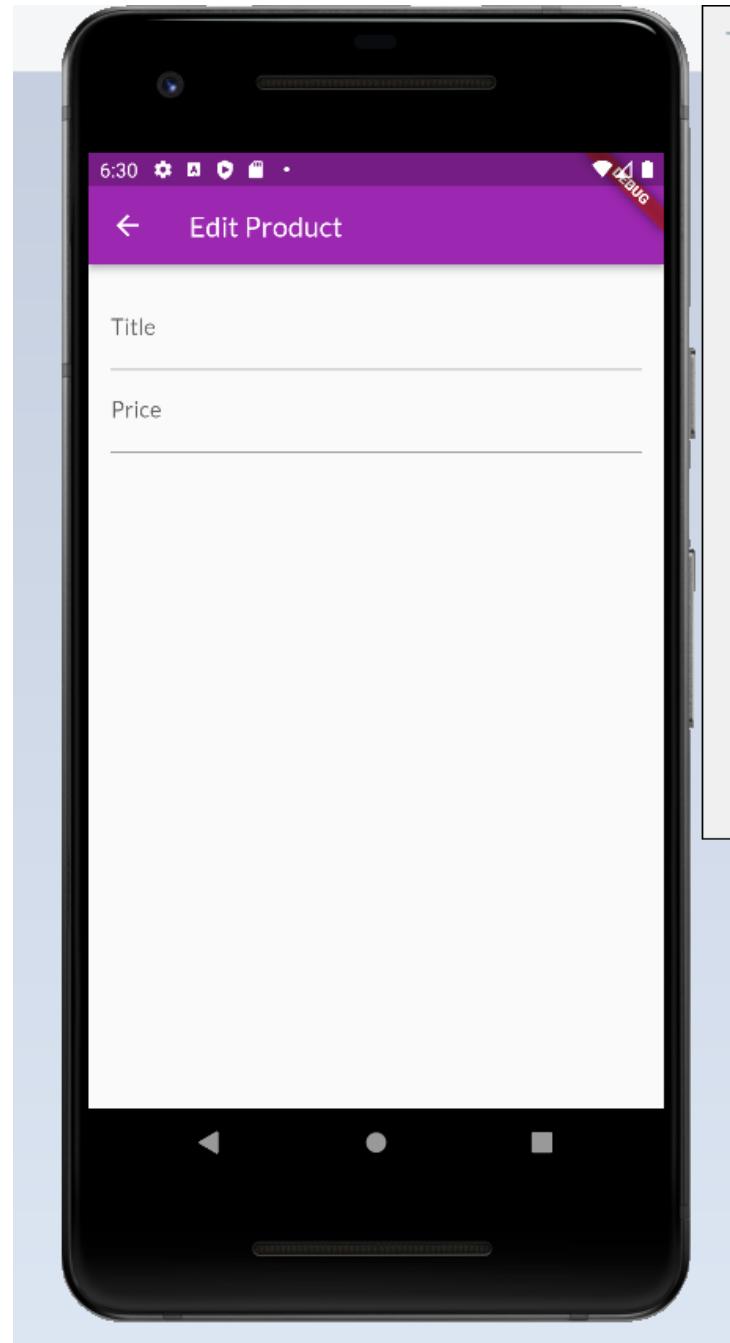
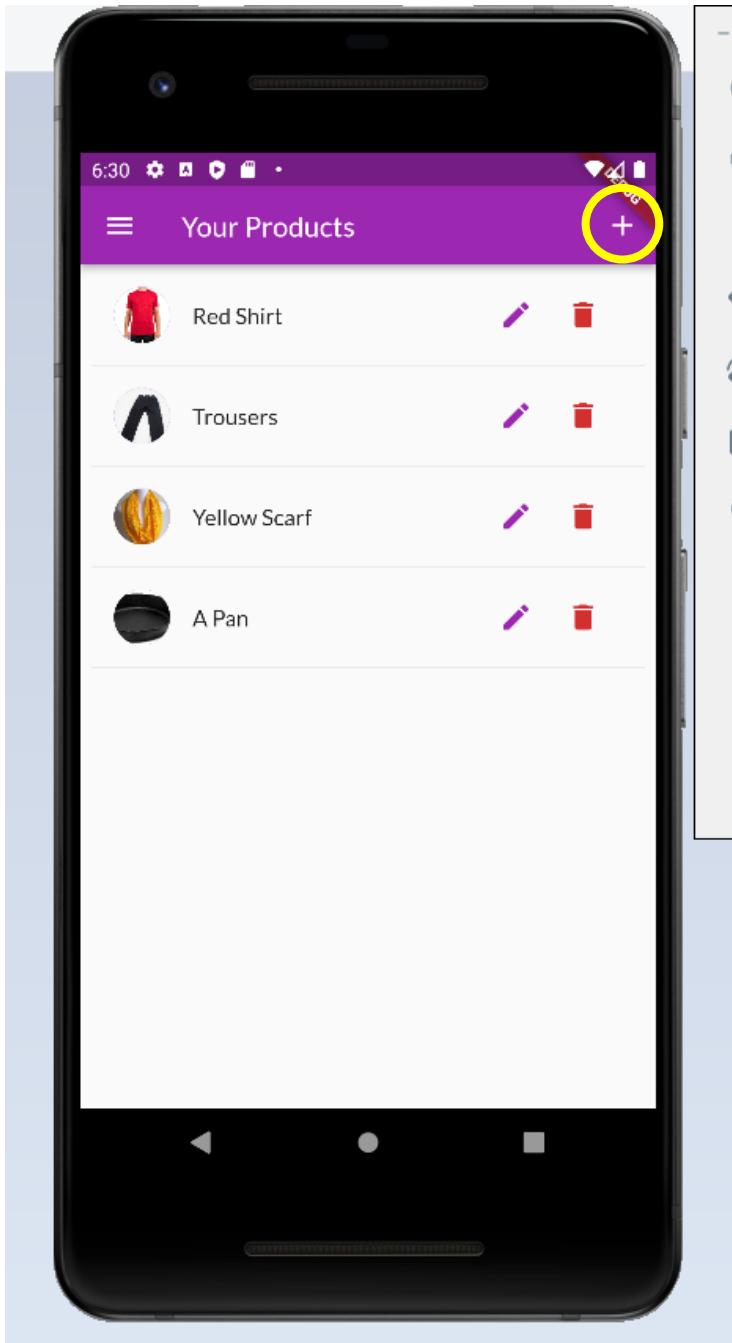
lib
models
providers
cart.dart
orders.dart
product.dart
products.dart
screens
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.dart
products_overview_screen.dart
user_products_screen.dart
widgets
app_drawer.dart
badge.dart
cart_item.dart
order_item.dart
product_item.dart
products_grid.dart
user_product_item.dart
main.dart
test
web
.gitignore

OUTLINE
DEPENDENCIES

```
9 class UserProductsScreen extends StatelessWidget {  
10 static const routeName = '/user-products';  
11  
12 @override  
13 Widget build(BuildContext context) {  
14   final productsData = Provider.of<Products>(context);  
15   return Scaffold(  
16     appBar: AppBar(  
17       title: const Text('Your Products'),  
18       actions: <Widget>[  
19         IconButton(  
20           icon: const Icon(Icons.add),  
21           onPressed: () {  
22             Navigator.of(context).pushNamed(EditProductScreen.routeName);  
23           },  
24         ), // IconButton  
25       ], // <Widget>[]  
26     ), // AppBar  
27     drawer: AppDrawer(),  
28     body: Padding(  
29       padding: EdgeInsets.all(8),  
30       child: ListView.builder(  
31
```

screens\user_products_screen.dart

Ln 25, Col 1 (201 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



MULTILINE INPUTS AND DISPOSING OBJECTS

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X main.dart user_products_screen.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState

```
1 import 'package:flutter/material.dart';
2
3 class EditProductScreen extends StatefulWidget {
4     static const routeName = '/edit-product';
5
6     @override
7     _EditProductScreenState createState() => _EditProductScreenState();
8 }
9
10 class _EditProductScreenState extends State<EditProductScreen> {
11     final _priceFocusNode = FocusNode();
12     final _descriptionFocusNode = FocusNode();
13
14     @override
15     void dispose() {
16         _priceFocusNode.dispose();
17         _descriptionFocusNode.dispose();
18         super.dispose();
19     }
20
21     @override
22     Widget build(BuildContext context) {
```

screens\edit_product_screen.dart

Ln 20, Col 1 (218 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X main.dart user_products_screen.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
36     FocusScope.of(context).requestFocus(_priceFocusNode);
37   },
38   ), // TextFormField
39   TextFormField(
40     decoration: InputDecoration(labelText: 'Price'),
41    textInputAction: TextInputAction.next,
42     keyboardType: TextInputType.number,
43     focusNode: _priceFocusNode,
44     onFieldSubmitted: (_) {
45       FocusScope.of(context).requestFocus(_descriptionFocusNode);
46     },
47   ), // TextFormField
48   TextFormField(
49     decoration: InputDecoration(labelText: 'Description'),
50     maxLines: 3,
51     keyboardType: TextInputType.multiline,
52     focusNode: _descriptionFocusNode,
53   ), // TextFormField
54   ], // <Widget>[]
55   ), // ListView
56   ), // Form
57   ), // Padding
```

screens\edit_product_screen.dart

Ln 54, Col 1 (415 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

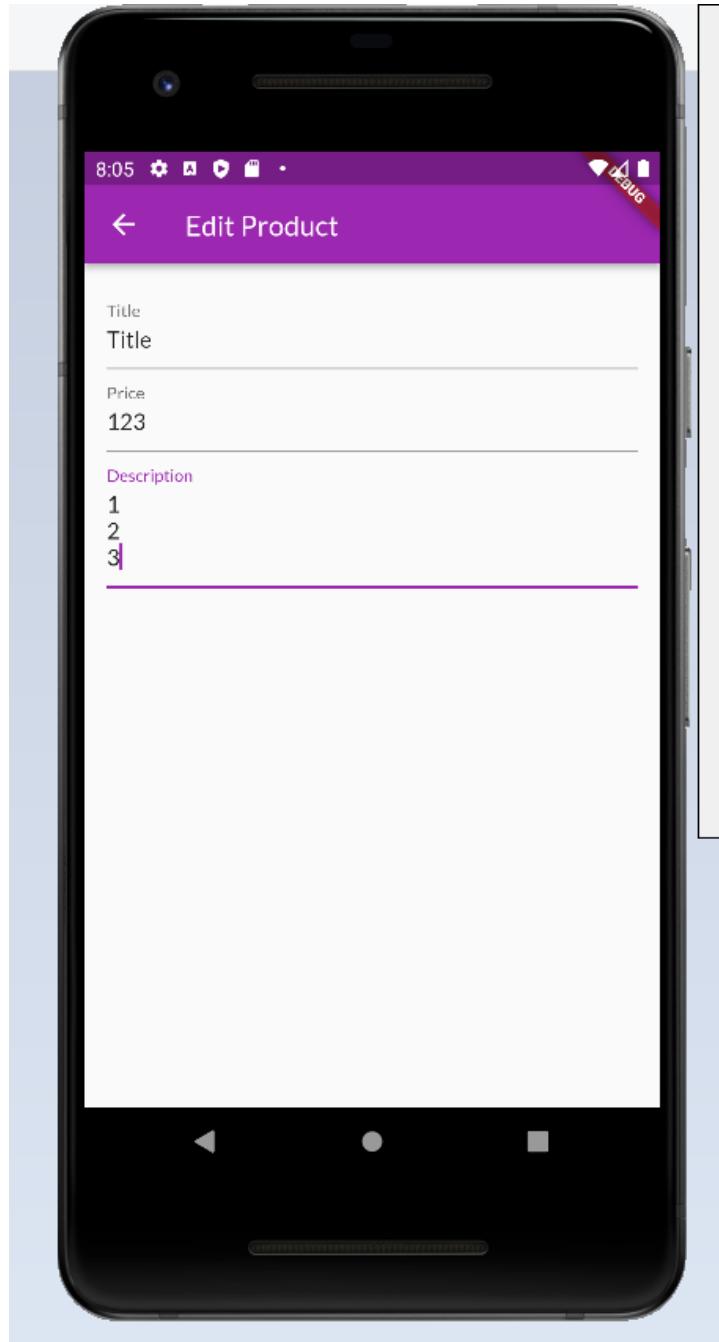
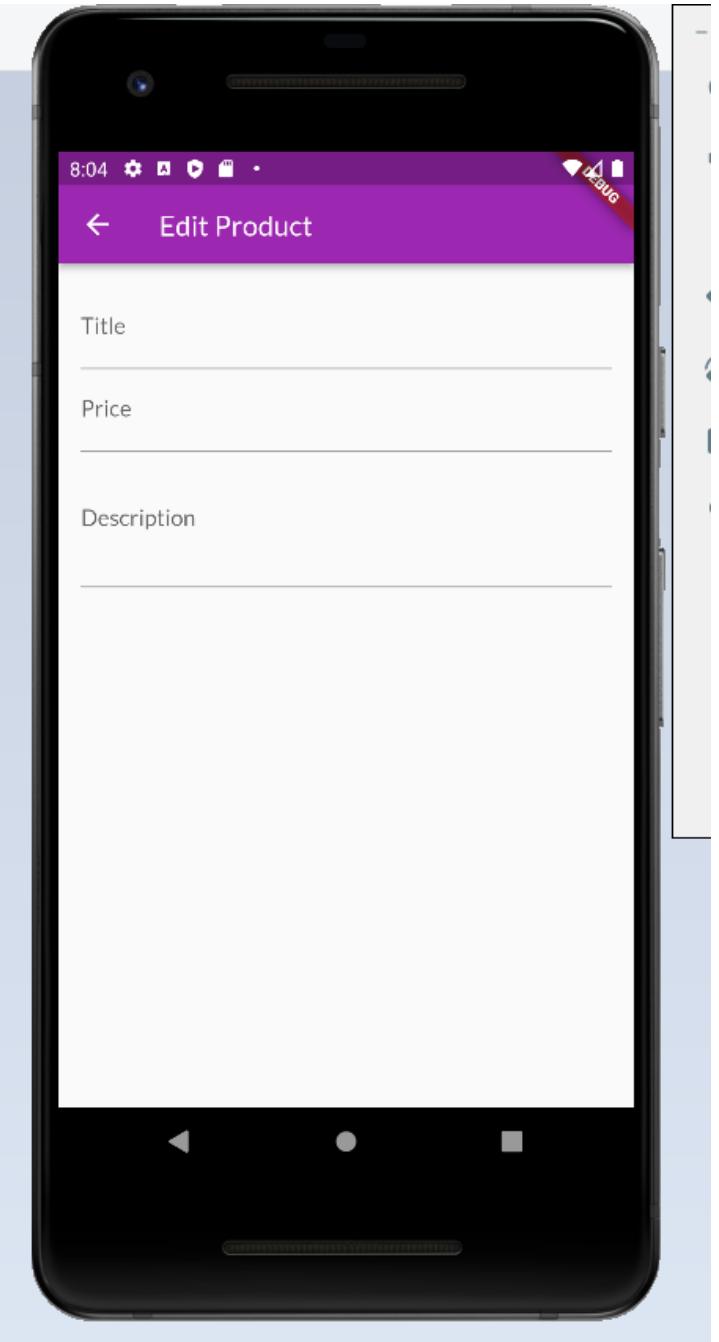
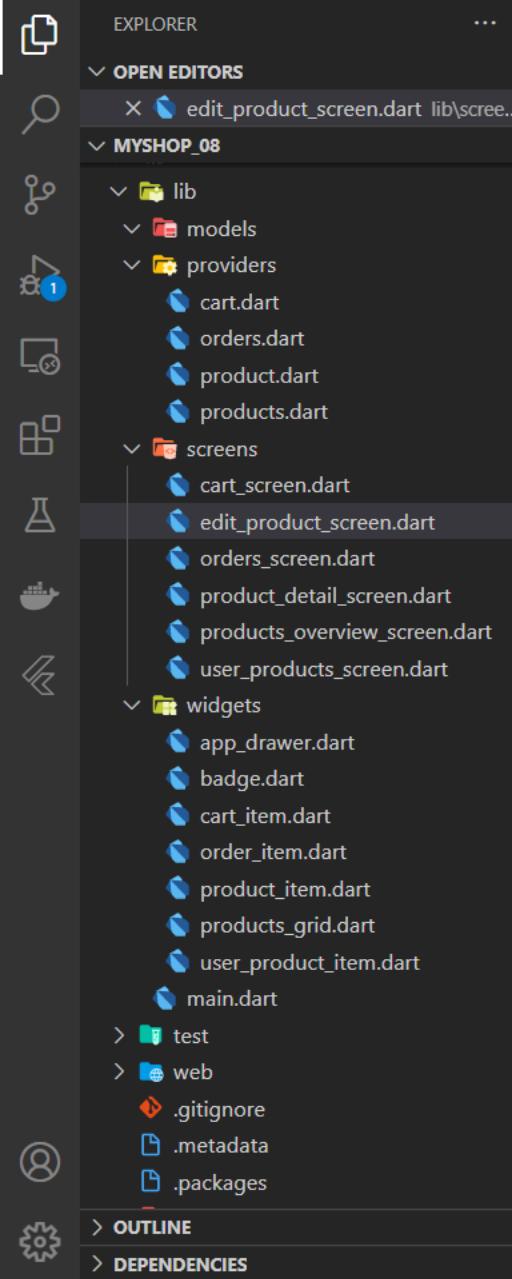


IMAGE INPUT AND IMAGE PREVIEW



```
1 import 'package:flutter/material.dart';
2
3 class EditProductScreen extends StatefulWidget {
4   static const routeName = '/edit-product';
5
6   @override
7   _EditProductScreenState createState() => _EditProductScreenState();
8 }
9
10 class _EditProductScreenState extends State<EditProductScreen> {
11   final _priceFocusNode = FocusNode();
12   final _descriptionFocusNode = FocusNode();
13   final _imageUrlController = TextEditingController();
14   final _imageUrlFocusNode = FocusNode();
15
16   @override
17   void initState() {
18     _imageUrlFocusNode.addListener(_updateImageUrl);
19   }
20
21   @override
```

screens\edit_product_screen.dart

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER

OPEN EDITORS

edit_product_screen.dart lib\scree...

MYSHOP_08

- lib
- models
- providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
- screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
- 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

OUTLINE

DEPENDENCIES

edit_product_screen.dart x

lib > screens > edit_product_screen.dart > _EditProductScreenState

```
super.initState();  
}  
  
@override  
void dispose(){  
    _imageUrlFocusNode.removeListener(_updateImageUrl);  
    _priceFocusNode.dispose();  
    _descriptionFocusNode.dispose();  
    _imageUrlController.dispose();  
    _imageUrlFocusNode.dispose();  
    super.dispose();  
}  
  
void _updateImageUrl(){  
    if(!_imageUrlFocusNode.hasFocus){  
        setState((){});  
    }  
}  
  
@override  
Widget build(BuildContext context) {  
    return Scaffold(  
}
```

Ln 37, Col 1 (365 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

screens\edit_product_screen.dart

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER OPEN EDITORS edit_product_screen.dart X lib > screens > edit_product_screen.dart > _EditProductScreenState > build

MYSHOP_08 lib models providers cart.dart orders.dart product.dart products.dart screens cart_screen.dart edit_product_screen.dart orders_screen.dart product_detail_screen.dart products_overview_screen.dart user_products_screen.dart 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

TextFormField(
decoration: InputDecoration(labelText: 'Description'),
maxLines: 3,
keyboardType: TextInputType.multiline,
focusNode: _descriptionFocusNode,
, // TextFormField
Row(
crossAxisAlignment: CrossAxisAlignment.end,
children: <Widget>[
Container(
width: 100,
height: 100,
margin: EdgeInsets.only(
top: 8,
right: 10,
, // EdgeInsets.only
decoration: BoxDecoration(
border: Border.all(
width: 1,
color: Colors.grey,
, // Border.all
, // BoxDecoration

screens\edit_product_screen.dart

Ln 107, Col 1 (1419 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER

OPEN EDITORS

edit_product_screen.dart lib\scree...

MYSHOP_08

- lib
 - models
 - providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
 - screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
 - 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

OUTLINE

DEPENDENCIES

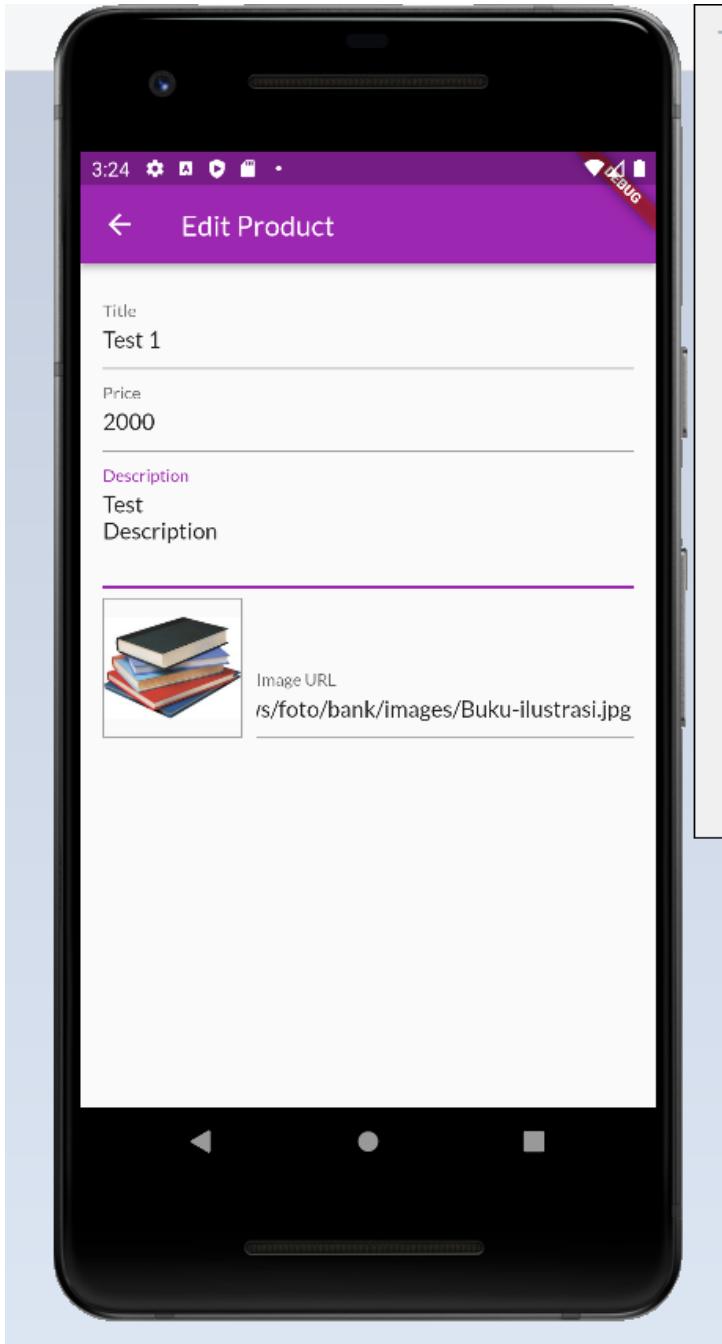
edit_product_screen.dart X

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
86     ), // BoxDecoration
87     child: _imageUrlController.text.isEmpty
88         ? Text('Enter a URL')
89         : FittedBox(
90             child: Image.network(
91                 _imageUrlController.text,
92                 fit: BoxFit.cover,
93             ), // Image.network
94         ), // FittedBox
95     ), // Container
96     Expanded(
97         child: TextFormField(
98             decoration: InputDecoration(labelText: 'Image URL'),
99             keyboardType: TextInputType.url,
100            textInputAction: TextInputAction.done,
101            controller: _imageUrlController,
102            focusNode: _imageUrlFocusNode,
103        ), // TextFormField
104    ), // Expanded
105 ], // <Widget>[]
106 ), // Row
107 ], // <Widget>[]
```

screens\edit_product_screen.dart

Ln 107, Col 1 (1419 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



SUBMITTING FORMS

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

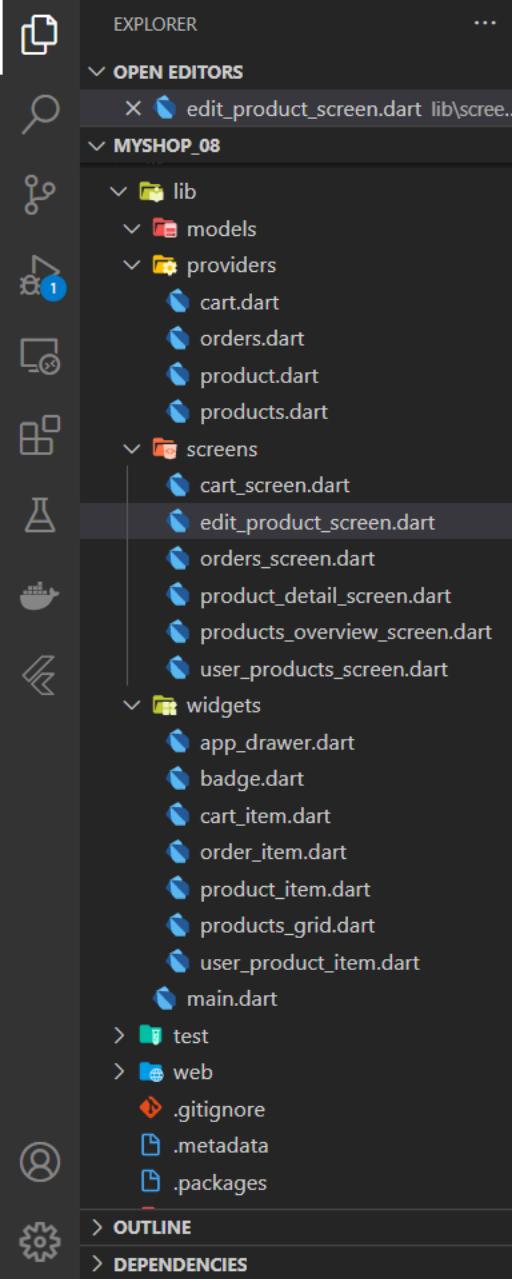
EXPLORER OPEN EDITORS MYSHOP_08

edit_product_screen.dart lib\scree... edit_product_screen.dart _EditProductScreenState

```
9 }
10
11 class _EditProductScreenState extends State<EditProductScreen> {
12   final _priceFocusNode = FocusNode();
13   final _descriptionFocusNode = FocusNode();
14   final _imageUrlController = TextEditingController();
15   final _imageUrlFocusNode = FocusNode();
16
17   final _form = GlobalKey<FormState>();
18   var _editedProduct = Product(
19     id: null,
20     title: '',
21     price: 0,
22     description: '',
23     imageUrl: '',
24   );
25
26   @override
27   void initState() {
28     _imageUrlFocusNode.addListener(_updateImageUrl);
29     super.initState();
30   }

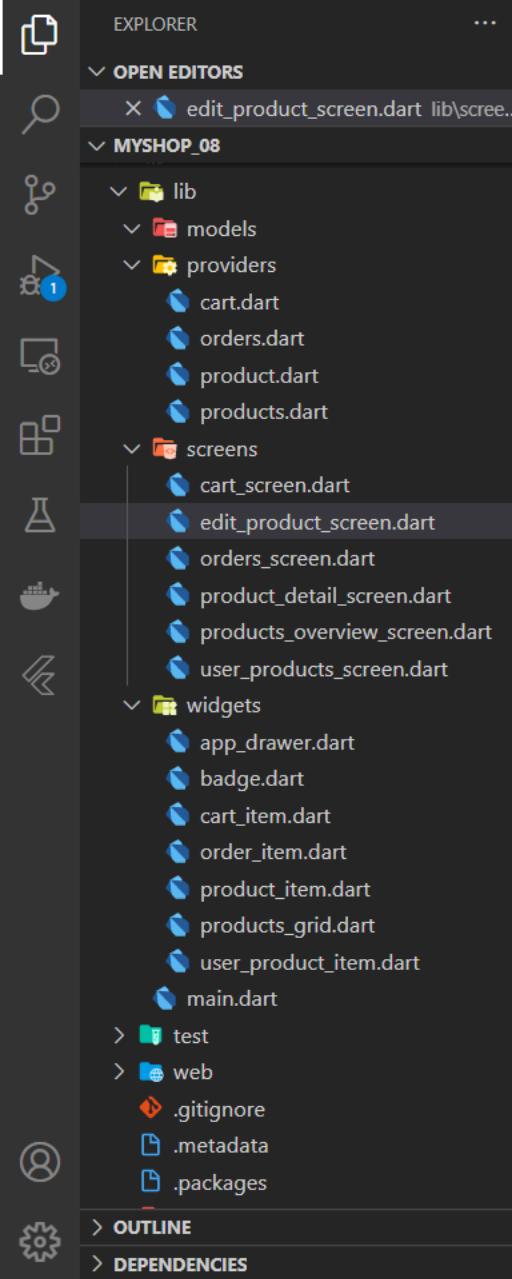
```

screens\edit_product_screen.dart



```
38     _imageUrlFocusNode.dispose();
39     super.dispose();
40 }
41
42 void _updateImageUrl() {
43     if (!_imageUrlFocusNode.hasFocus) {
44         setState(() {});
45     }
46 }
47
48 void _saveForm() {
49     _form.currentState.save();
50     print(_editedProduct.title);
51     print(_editedProduct.description);
52     print(_editedProduct.price);
53     print(_editedProduct.imageUrl);
54 }
55
56 @override
57 Widget build(BuildContext context) {
58     return Scaffold(
59         appBar: AppBar(
60             title: Text('Edit Product').
```

screens\edit_product_screen.dart



```
54 }  
55  
56 @override  
57 Widget build(BuildContext context) {  
58   return Scaffold(  
59     appBar: AppBar(  
60       title: Text('Edit Product'),  
61       actions: <Widget>[  
62         IconButton(  
63           icon: Icon(Icons.save),  
64           onPressed: _saveForm,  
65         ), // IconButton  
66       ], // <Widget>[]  
67     ), // AppBar  
68     body: Padding(  
69       padding: const EdgeInsets.all(16.0),  
70       child: Form(  
71         key: _form,  
72         child: ListView(  
73           children: <Widget>[  
74             TextFormField(  
75               decoration: InputDecoration(labelText: 'Title'),  
76               textInputAction: TextInputAction.next,
```

screens\edit_product_screen.dart

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER OPEN EDITORS MYSHOP_08

edit_product_screen.dart X lib > screens > edit_product_screen.dart > _EditProductScreenState > build

body: Padding(
padding: const EdgeInsets.all(16.0),
child: Form(
key: _form,
child: ListView(
children: <Widget>[
TextFormField(
decoration: InputDecoration(labelText: 'Title'),
textInputAction: TextInputAction.next,
onFieldSubmitted: (_){
FocusScope.of(context).requestFocus(_priceFocusNode);
},
onSaved: (value){
_editedProduct = Product(
title: value,
price: _editedProduct.price,
description: _editedProduct.description,
imageUrl: _editedProduct.imageUrl,
id: null,
); // Product
},
), // TextFormField

screens\edit_product_screen.dart

Ln 89, Col 1 (357 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER

OPEN EDITORS

edit_product_screen.dart

MYSHOP_08

- lib
- models
- providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
- screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
- 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

OUTLINE

DEPENDENCIES

edit_product_screen.dart X

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
88     },
89     ), // TextFormField
90     TextFormField(
91       decoration: InputDecoration(labelText: 'Price'),
92      textInputAction: TextInputAction.next,
93       keyboardType: TextInputType.number,
94       focusNode: _priceFocusNode,
95       onFieldSubmitted: (_){
96         FocusScope.of(context).requestFocus(_descriptionFocusNode);
97       },
98       onSaved: (value) {
99         _editedProduct = Product(
100           title: _editedProduct.title,
101           price: double.parse(value),
102           description: _editedProduct.description,
103           imageUrl: _editedProduct.imageUrl,
104           id: null,
105         ); // Product
106       },
107     ), // TextFormField
108     TextFormField(
109       decoration: InputDecoration(labelText: 'Description'),
110       maxLines: 3,
```

Ln 107, Col 1 (371 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

screens\edit_product_screen.dart

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER OPEN EDITORS MYSHOP_08

edit_product_screen.dart X lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
107 ), // TextFormField
108 TextFormField(
109   decoration: InputDecoration(labelText: 'Description'),
110   maxLines: 3,
111   keyboardType: TextInputType.multiline,
112   focusNode: _descriptionFocusNode,
113   onSaved: (value) {
114     _editedProduct = Product(
115       title: _editedProduct.title,
116       price: _editedProduct.price,
117       description: value,
118       imageUrl: _editedProduct.imageUrl,
119       id: null,
120     ); // Product
121   },
122 ), // TextFormField
123 Row(
124   mainAxisAlignment: MainAxisAlignment.end,
125   children: <Widget>[
126     Container(
127       width: 100,
128       height: 100,
```

screens\edit_product_screen.dart

EXPLORER

OPEN EDITORS

edit_product_screen.dart

MYSHOP_08

- lib
- models
- providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
- screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
- 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

OUTLINE

DEPENDENCIES

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
148 Expanded(                                          
149   child: TextFormField(                                 
150     decoration: InputDecoration(labelText: 'Image URL'), 
151     keyboardType: TextInputType.url,                
152    textInputAction: TextInputAction.done,        
153     controller: _imageUrlController,            
154     focusNode: _imageUrlFocusNode,                
155     onSaved: (value) {                        
156       _editedProduct = Product(                
157         title: _editedProduct.title,          
158         price: _editedProduct.price,        
159         description: _editedProduct.description, 
160         imageUrl: value,                
161         id: null,                        
162       ); // Product                        
163     },                                          
164   ), // TextFormField                                 
165   ), // Expanded                                 
166 ], // <Widget>[]                                 
167 ), // Row                                 
168 ], // <Widget>[]                                 
169 ), // ListView
```

screens\edit_product_screen.dart

EXPLORER

OPEN EDITORS

edit_product_screen.dart

MYSHOP_08

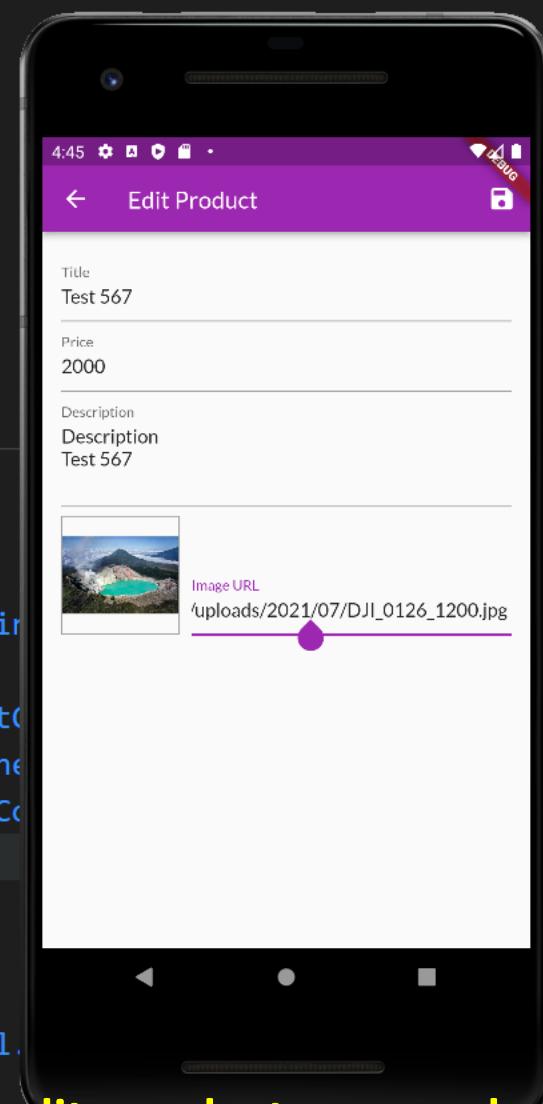
- lib
- models
- providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
- screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
- widgets
 - app_drawer.dart
 - badge.dart
 - cart_item.dart
 - order_item.dart
 - product_item.dart
 - products_grid.dart
 - user_product_item.dart
 - main.dart
- test
- web
- .gitignore
- .metadata
- .packages

OUTLINE

DEPENDENCIES

edit_product_screen.dart

```
44     setState(() {});  
45 }  
46 }  
47  
48 void _saveForm() {  
49   _form.currentState.save();  
50   print(_editedProduct.title);  
51   print(_editedProduct.description);  
52   print(_editedProduct.price);  
53 }  
54  
55 Restarted application in 2,002ms.  
I/flutter (23648): Product rebuild  
I/chatty (23648): uid=10136(com.example.myshop_08) 1.ui identical 1 line  
I/flutter (23648): Product rebuild  
W/IInputConnectionWrapper(23648): getTextBeforeCursor on inactive InputConnection  
W/IInputConnectionWrapper(23648): getSelectedText on inactive InputConnection  
W/IInputConnectionWrapper(23648): getTextAfterCursor on inactive InputConnection  
I/flutter (23648): Test 567  
I/flutter (23648): Description  
I/flutter (23648): Test 567  
I/flutter (23648): 2000.0  
I/flutter (23648): https://world-travel-guy-inboundhorizonsi.netdna-ssl.com/0126_1200.jpg
```



screens\edit_product_screen.dart

VALIDATING USER INPUT

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER OPEN EDITORS MYSHOP_08

edit_product_screen.dart x lib > screens > edit_product_screen.dart > _EditProductScreenState > _saveForm

```
42 void _updateImageUrl() {  
43     if (!_imageUrlFocusNode.hasFocus) {  
44         if ((!_imageUrlController.text.startsWith('http') &&  
45             !_imageUrlController.text.startsWith('https')) ||  
46             !_imageUrlController.text.endsWith('.png') &&  
47             !_imageUrlController.text.endsWith('.jpg') &&  
48             !_imageUrlController.text.endsWith('.jpeg'))) {  
49             return;  
50         }  
51         setState(() {});  
52     }  
53 }  
54  
55 void _saveForm() {  
56     final isValid = _form.currentState.validate();  
57     if (!isValid) {  
58         return;  
59     }  
60     _form.currentState.save();  
61     print(_editedProduct.title);  
62     print(_editedProduct.description);  
63     print(_editedProduct.price);
```

screens\edit_product_screen.dart

Ln 60, Col 1 (557 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

children: <Widget>[
 TextFormField(
 decoration: InputDecoration(labelText: 'Title'),
 textInputAction: TextInputAction.next,
 onFieldSubmitted: (_) {
 FocusScope.of(context).requestFocus(_priceFocusNode);
 },
 validator: (value) {
 if (value.isEmpty) {
 return 'Please provide a value.';
 }
 return null;
 },
 onSaved: (value) {
 _editedProduct = Product(
 title: value,
 price: _editedProduct.price,
 description: _editedProduct.description,
 imageUrl: _editedProduct.imageUrl,
 id: null,
); // Product
 },

screens\edit_product_screen.dart

Ln 90, Col 1 (206 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER OPEN EDITORS MYSHOP_08

edit_product_screen.dart X lib > screens > edit_product_screen.dart > _EditProductScreenState > build

100 TextFormField(
101 decoration: InputDecoration(labelText: 'Price'),
102 textInputAction: TextInputAction.next,
103 keyboardType: TextInputType.number,
104 focusNode: _priceFocusNode,
105 onFieldSubmitted: (_) {
106 FocusScope.of(context).requestFocus(_descriptionFocusNode);
107 },
108 validator: (value) {
109 if (value.isEmpty) {
110 return 'Please enter a price.';
111 }
112 if (double.tryParse(value) == null) {
113 return 'Please enter a valid number.';
114 }
115 if (double.parse(value) <= 0) {
116 return 'Please enter a number greater than zero.';
117 }
118 return null;
119 },
120 onSaved: (value) {
121 _editedProduct = Product(
screens\edit_product_screen.dart

Ln 120, Col 1 (486 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER

OPEN EDITORS

edit_product_screen.dart

MYSHOP_08

- lib
 - models
 - providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
 - screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
 - 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

OUTLINE

DEPENDENCIES

edit_product_screen.dart X

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
130     TextFormField(
131       decoration: InputDecoration(labelText: 'Description'),
132       maxLines: 3,
133       keyboardType: TextInputType.multiline,
134       focusNode: _descriptionFocusNode,
135       validator: (value) {
136         if (value.isEmpty) {
137           return 'Please enter a description.';
138         }
139         if (value.length < 10) {
140           return 'Should be at least 10 characters long.';
141         }
142         return null;
143       },
144       onSaved: (value) {
145         _editedProduct = Product(
146           title: _editedProduct.title,
147           price: _editedProduct.price,
148           description: value,
149           imageUrl: _editedProduct.imageUrl,
150           id: null,
151         ); // Product
152       },
153     );
154   }
155 }
```

Ln 144, Col 1 (345 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

screens\edit_product_screen.dart



EXPLORER

OPEN EDITORS

edit_product_screen.dart

MYSHOP_08

- lib
 - models
 - providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
 - screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
 - 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

OUTLINE

DEPENDENCIES

```
178     ), // Container
179     Expanded(
180         child: TextFormField(
181             decoration: InputDecoration(labelText: 'Image URL'),
182             keyboardType: TextInputType.url,
183            textInputAction: TextInputAction.done,
184             controller: _imageUrlController,
185             focusNode: _imageUrlFocusNode,
186             onFieldSubmitted: (_){ _saveForm(); },
187             validator: (value){
188                 if (value.isEmpty){
189                     return 'Please enter an image URL.';
190                 }
191                 if (!value.startsWith('http') &&
192                     !value.startsWith('https')){
193                     return 'Please enter a valid URL.';
194                 }
195                 if (!value.endsWith('.png') &&
196                     !value.endsWith('.jpg') &&
197                     !value.endsWith('.jpeg')){
```

screens\edit_product_screen.dart

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

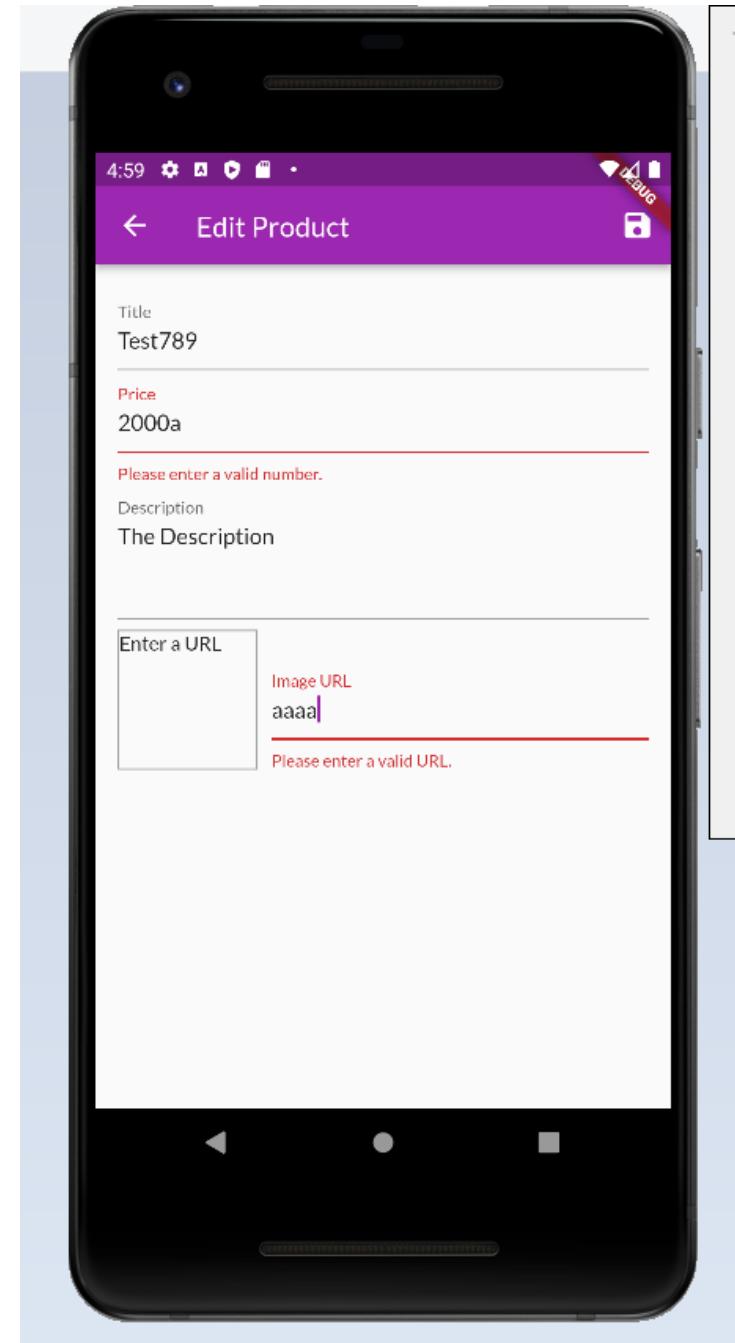
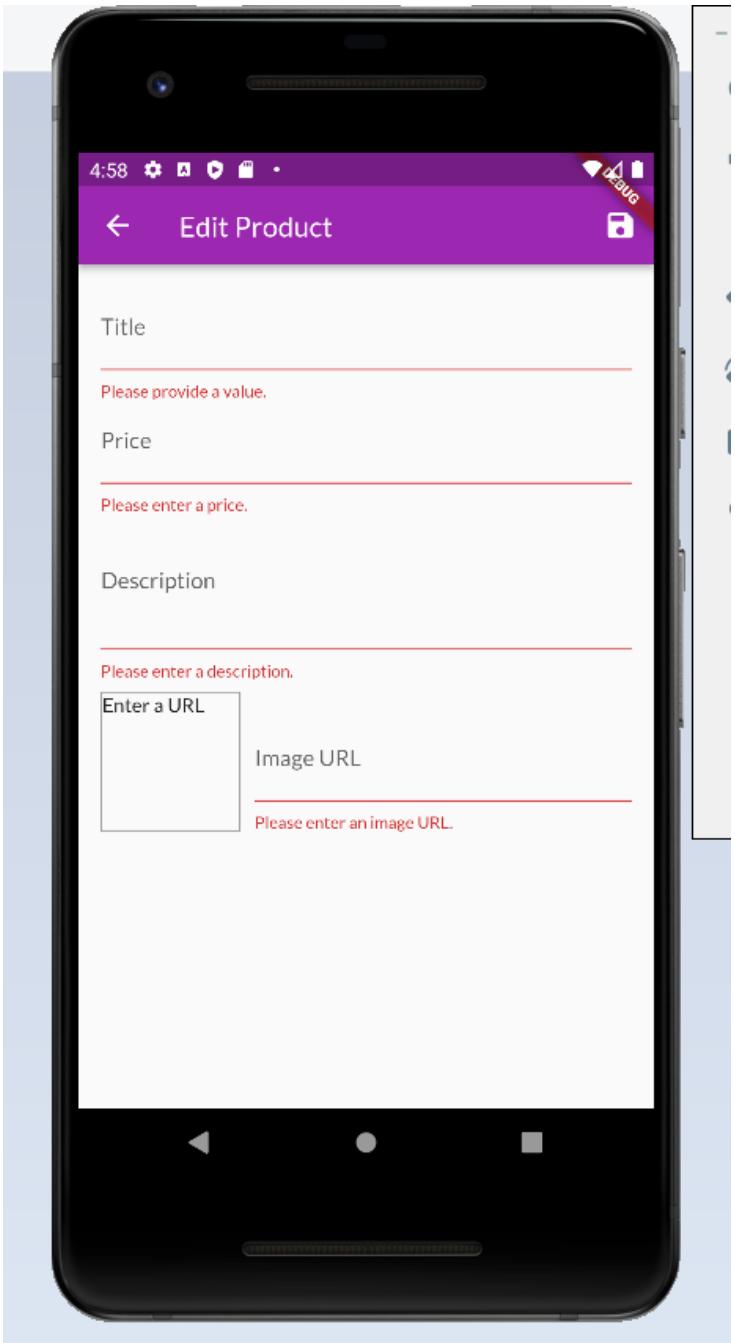
EXPLORER OPEN EDITORS MYSHOP_08

edit_product_screen.dart X lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
191     return 'Please enter an image URL.';
192 }
193 if (!value.startsWith('http') &&
194     !value.startsWith('https')) {
195     return 'Please enter a valid URL.';
196 }
197 if (!value.endsWith('.png') &&
198     !value.endsWith('.jpg') &&
199     !value.endsWith('.jpeg')) {
200     return 'Please enter a valid image URL.';
201 }
202 return null;
203 },
204 onSaved: (value) {
205     _editedProduct = Product(
206         title: _editedProduct.title,
207         price: _editedProduct.price,
208         description: _editedProduct.description,
209         imageUrl: value,
210         id: null,
211     ); // Product
212 },
```

screens\edit_product_screen.dart

Ln 204, Col 1 (828 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



SAVING NEW PRODUCTS

File Edit Selection View Go Run Terminal Help products.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart products.dart X

lib > providers > products.dart > Products

45 List<Product> get favoriteItems {
46 return _items.where((prodItem) => prodItem.isFavorite).toList();
47 }
48
49 Product findById(String id) {
50 return _items.firstWhere((prod) => prod.id == id);
51 }
52
53 void addProduct(Product product) {
54 final newProduct = Product(
55 title: product.title,
56 description: product.description,
57 price: product.price,
58 imageUrl: product.imageUrl,
59 id: DateTime.now().toString(),
60); // Product
61 _items.add(newProduct);
62 //_items.insert(0, newProduct); // at the start of the list
63 notifyListeners();
64 }
65 }
66 }

providers\products.dart

Ln 65, Col 1 (375 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER

OPEN EDITORS

- edit_product_screen.dart lib\scree...
- products.dart

MYSHOP_08

- lib
- models
- providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
- screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
- 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

OUTLINE

DEPENDENCIES

edit_product_screen.dart X products.dart

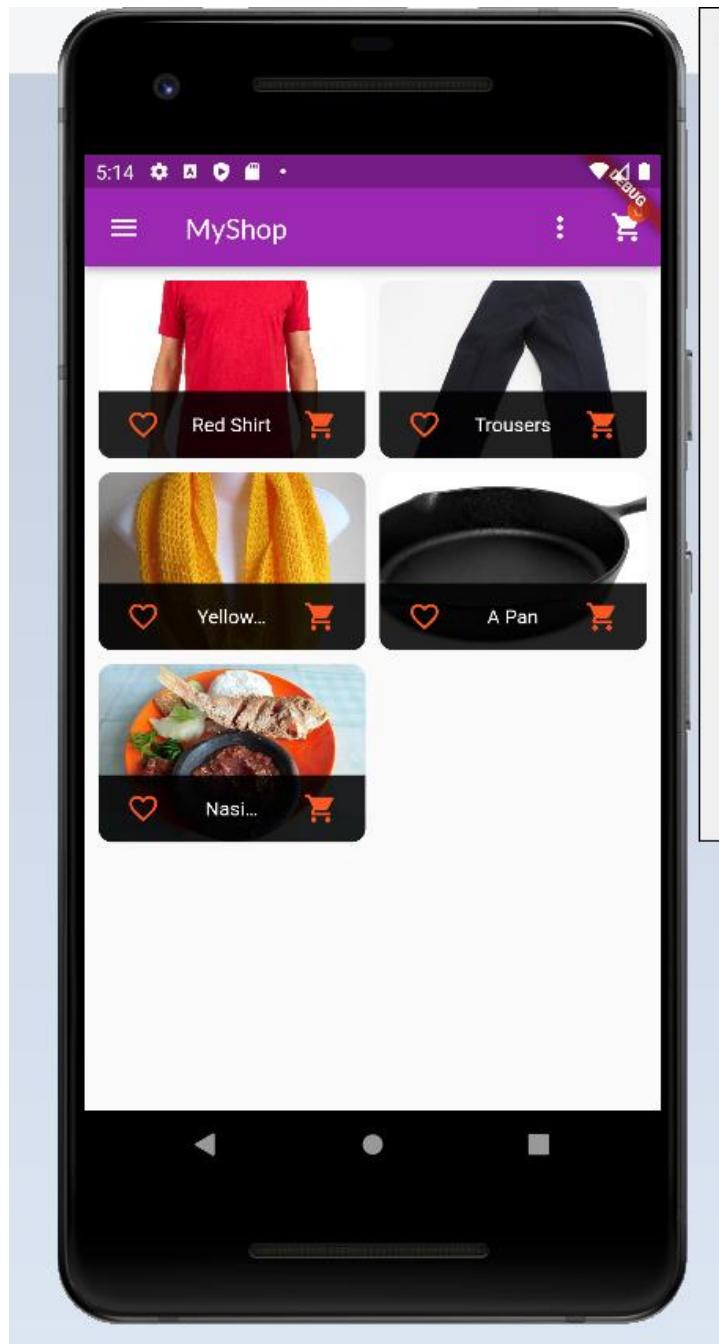
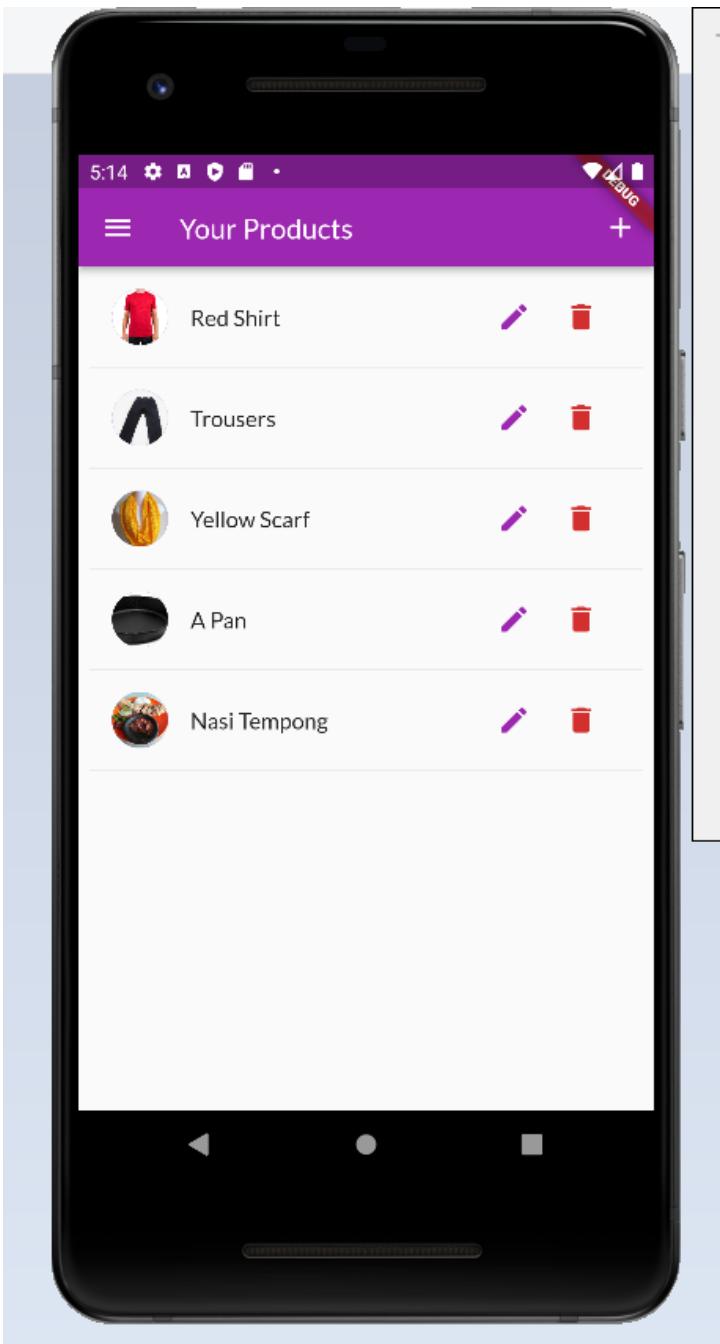
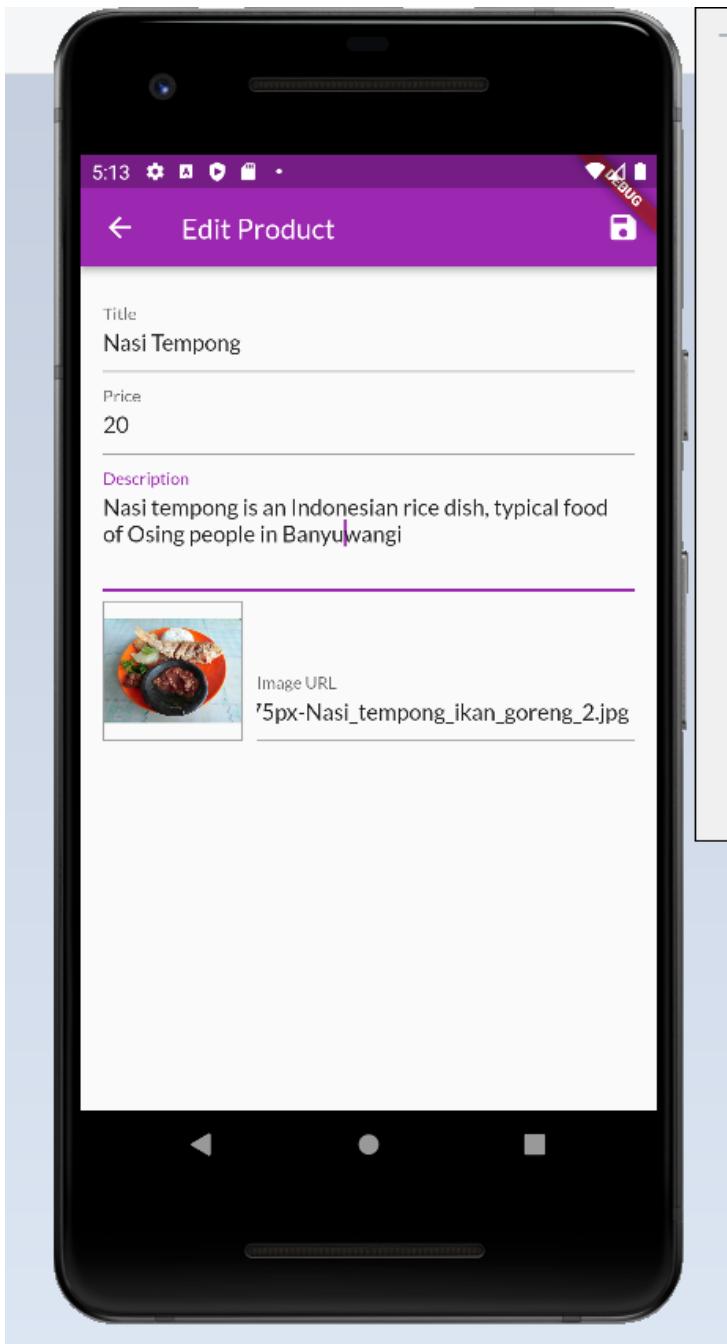
!_imageUrlController.text.endsWith('.jpg') &&
 !_imageUrlController.text.endsWith('.jpeg')) {
 return;
 }
 setState(() {});
 }

void _saveForm() {
 final isValid = _form.currentState.validate();
 if (!isValid) {
 return;
 }
 _form.currentState.save();
 Provider.of<Products>(context, listen: false).addProduct(_editedProduct);
 Navigator.of(context).pop();
 }

@override
Widget build(BuildContext context) {
 return Scaffold(
 appBar: AppBar(
 title: Text('Edit Product'))

Ln 66, Col 1 (113 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

screens\edit_product_screen.dart



TIME TO UPDATE PRODUCTS!

File Edit Selection View Go Run Terminal Help user_product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart X products.dart

lib > widgets > user_product_item.dart > UserProductItem

```
1 import 'package:flutter/material.dart';
2 import '../screens/edit_product_screen.dart';
3
4 class UserProductItem extends StatelessWidget {
5   final String id;
6   final String title;
7   final String imageUrl;
8
9   UserProductItem(this.id, this.title, this.imageUrl);
10
11 @override
12 Widget build(BuildContext context) {
13   return ListTile(
14     title: Text(title),
15     leading: CircleAvatar(
16       backgroundImage: NetworkImage(imageUrl),
17     ), // CircleAvatar
18     trailing: Container(
19       width: 100,
20       child: Row(
21         children: <Widget>[
22           IconButton(
```

windows\user_product_item.dart

Ln 11, Col 1 (129 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help user_product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart X products.dart

lib > widgets > user_product_item.dart > UserProductItem > build

11 @override
12 Widget build(BuildContext context) {
13 return ListTile(
14 title: Text(title),
15 leading: CircleAvatar(
16 backgroundImage: NetworkImage(imageUrl),
17), // CircleAvatar
18 trailing: Container(
19 width: 100,
20 child: Row(
21 children: <Widget>[
22 IconButton(
23 icon: Icon(Icons.edit),
24 onPressed: () {
25 Navigator.of(context)
26 .pushNamed(EditProductScreen.routeName, arguments: id);
27 },
28 color: Theme.of(context).primaryColor,
29), // IconButton
30 IconButton(
31 icon: Icon(Icons.delete),
32 onPressed: () {},
33), // IconButton
34],
35),
36),
37);
38 } // UserProductItem

windows\user_product_item.dart

1 Δ 0 97 Debug my code Ln 30, Col 1 (330 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help user_products_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart user_products_screen.dart X products.dart

lib > screens > user_products_screen.dart > UserProductsScreen > build

21 onPressed: () {
22 Navigator.of(context).pushNamed(EditProductScreen.routeName);
23 },
24), // IconButton
25], // <Widget>[]
26), // AppBar
27 drawer: AppDrawer(),
28 body: Padding(
29 padding: EdgeInsets.all(8),
30 child: ListView.builder(
31 itemCount: productsData.items.length,
32 itemBuilder: (_, i) => Column(
33 children: [
34 UserProductItem(
35 productsData.items[i].id,
36 productsData.items[i].title,
37 productsData.items[i].imageUrl,
38), // UserProductItem
39 Divider(),
40],
41), // Column
42), // ListView.builder

screens\user_products_screen.dart

Ln 39, Col 1 (188 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

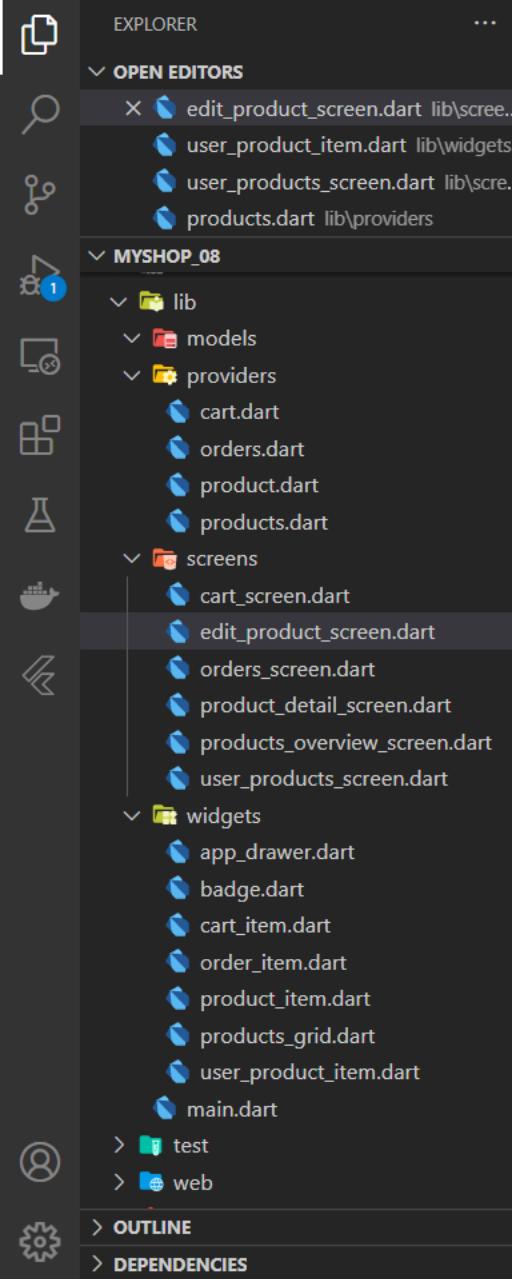
EXPLORER ... edit_product_screen.dart user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState

20 final _form = GlobalKey<FormState>();
21 var _editedProduct = Product(
22 id: null,
23 title: '',
24 price: 0,
25 description: '',
26 imageUrl: '',
27);
28
29 var _initValues = {
30 'title': '',
31 'description': '',
32 'price': 0,
33 'imageUrl': '',
34 };
35 var _isInit = true;
36
37 @override
38 void initState() {
39 _imageUrlFocusNode.addListener(_updateImageUrl);
40 super.initState();
41 }

screens\edit_product_screen.dart

Ln 36, Col 1 (133 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier



```
@override
void initState() {
  _imageUrlFocusNode.addListener(_updateImageUrl);
  super.initState();
}

@override
void didChangeDependencies() {
  if (_isInit) {
    final productId = ModalRoute.of(context).settings.arguments as String;
    if (productId != null) {
      _editedProduct =
        Provider.of<Products>(context, listen: false).findById(productId);
      _initValues = {
        'title': _editedProduct.title,
        'description': _editedProduct.description,
        'price': _editedProduct.price.toString(),
        // 'imageUrl': _editedProduct.imageUrl,
        'imageUrl': '',
      };
      _imageUrlController.text = _editedProduct.imageUrl;
    }
  }
}
```

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER

OPEN EDITORS

- edit_product_screen.dart lib\scree...
- user_product_item.dart lib\widgets...
- user_products_screen.dart lib\scree...
- products.dart lib\providers

MYSHOP_08

- lib
- models
- providers
 - cart.dart
 - orders.dart
 - product.dart
 - products.dart
- screens
 - cart_screen.dart
 - edit_product_screen.dart
 - orders_screen.dart
 - product_detail_screen.dart
 - products_overview_screen.dart
 - user_products_screen.dart
- 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

OUTLINE

DEPENDENCIES

edit_product_screen.dart X user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState

```
51     'title': _editedProduct.title,
52     'description': _editedProduct.description,
53     'price': _editedProduct.price.toString(),
54     // 'imageUrl': _editedProduct.imageUrl,
55     'imageUrl': '',
56   };
57   _imageUrlController.text = _editedProduct.imageUrl;
58 }
59 }
60 _isInit = false;
61 super.didChangeDependencies();
62 }

64 @override
65 void dispose() {
66   _imageUrlFocusNode.removeListener(_updateImageUrl);
67   _priceFocusNode.dispose();
68   _descriptionFocusNode.dispose();
69   _imageUrlController.dispose();
70   _imageUrlFocusNode.dispose();
71   super.dispose();
72 }
```

screens\edit_product_screen.dart

Ln 63, Col 1 (687 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

body: Padding(
padding: const EdgeInsets.all(16.0),
child: Form(
key: _form,
child: ListView(
children: <Widget>[
TextFormField(
initialValue: _initValues['title'],
decoration: InputDecoration(labelText: 'Title'),
textInputAction: TextInputAction.next,
onFieldSubmitted: (_) {
FocusScope.of(context).requestFocus(_priceFocusNode);
},
validator: (value) {
if (value.isEmpty) {
return 'Please provide a value.';
}
return null;
},
onSaved: (value) {
_editedProduct = Product(
title: value,

109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130

Ln 117, Col 1 (53 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

0 △ 0 ① 97 Debug my code

MYSHOP_08

lib
models
providers
cart.dart
orders.dart
product.dart
products.dart
screens
cart_screen.dart
edit_product_screen.dart
orders_screen.dart
product_detail_screen.dart
products_overview_screen.dart
user_products_screen.dart
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
OUTLINE
DEPENDENCIES

edit_product_screen.dart

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

137), // TextFormField
138 TextFormField(
139 initialValue: _initValues['price'],
140 decoration: InputDecoration(labelText: 'Price'),
141textInputAction: TextInputAction.next,
142 keyboardType: TextInputType.number,
143 focusNode: _priceFocusNode,
144 onFieldSubmitted: (_) {
145 FocusScope.of(context).requestFocus(_descriptionFocusNode);
146 },
147 validator: (value) {
148 if (value.isEmpty) {
149 return 'Please enter a price.';
150 }
151 if (double.tryParse(value) == null) {
152 return 'Please enter a valid number.';
153 }
154 if (double.parse(value) <= 0) {
155 return 'Please enter a number greater than zero.';
156 }
157 return null;
158 },

screens\edit_product_screen.dart

Ln 140, Col 1 (53 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

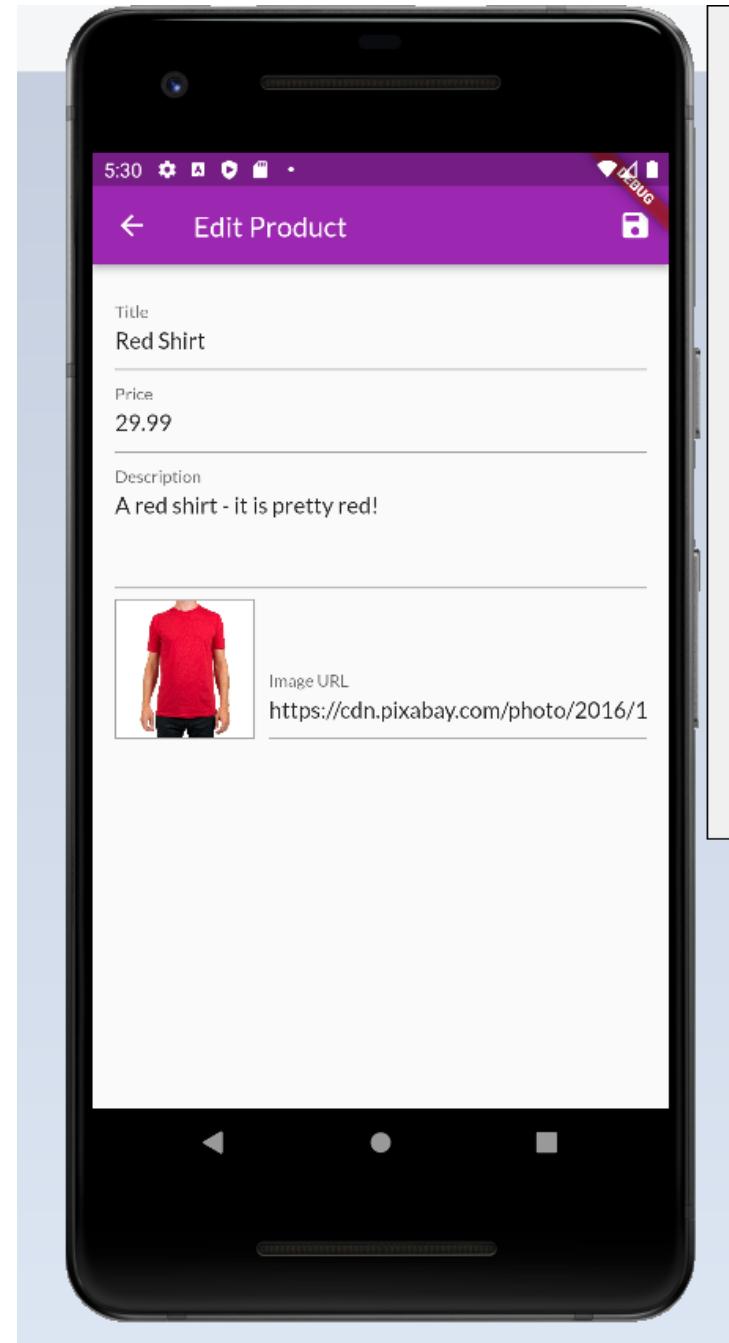
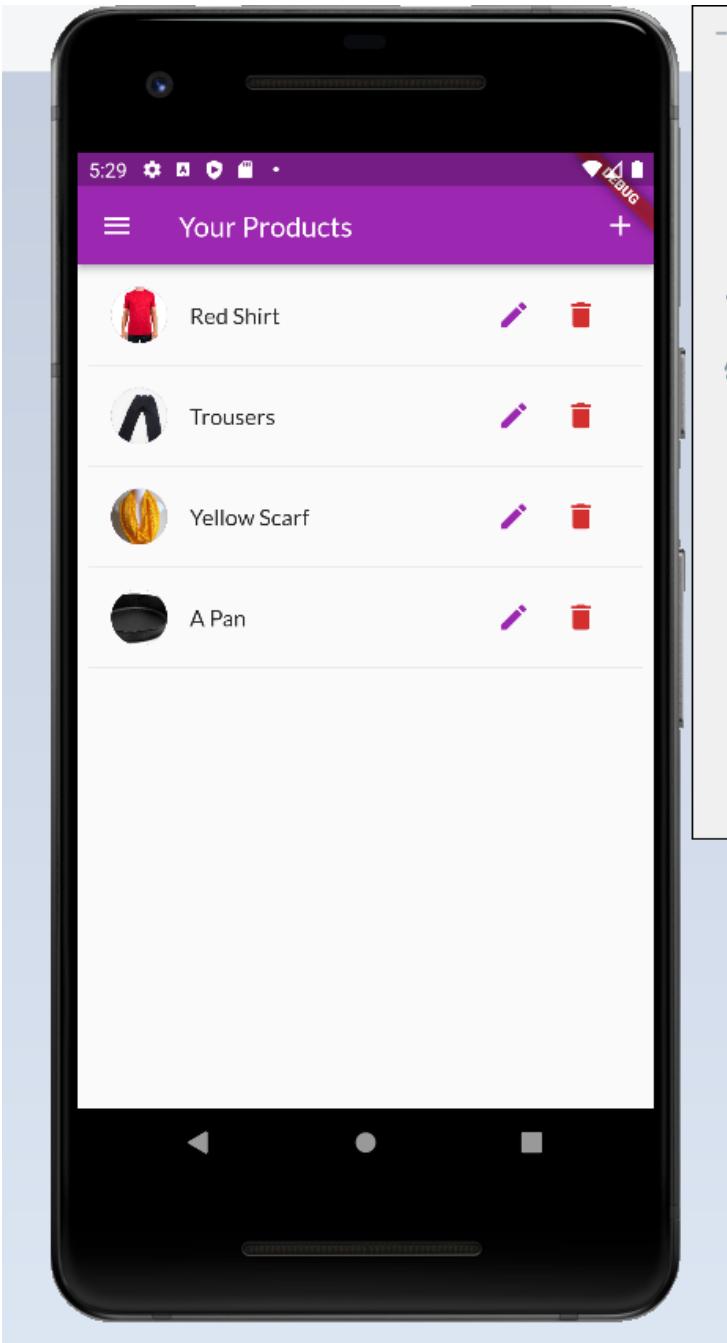
File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

166); // Product
167 },
168), // TextFormField
169 TextFormField(
170 initialValue: _initValues['description'],
171 decoration: InputDecoration(labelText: 'Description'),
172 maxLines: 3,
173 keyboardType: TextInputType.multiline,
174 focusNode: _descriptionFocusNode,
175 validator: (value) {
176 if (value.isEmpty) {
177 return 'Please enter a description.';
178 }
179 if (value.length < 10) {
180 return 'Should be at least 10 characters long.';
181 }
182 return null;
183 },
184 onSaved: (value) {
185 _editedProduct = Product(
186 title: _editedProduct.title,
187 price: _editedProduct.price,
188 description: value

Ln 171, Col 1 (59 selected) Spaces: 2 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

EXPLORER ... edit_product_screen.dart user_product_item.dart user_products_screen.dart products.dart X

OPEN EDITORS lib > providers > products.dart Products

edit_product_screen.dart lib\scree... user_product_item.dart lib\widgets user_products_screen.dart lib\scre... products.dart lib\providers

MYSHOP_08

lib models providers screens widgets test web

edit_product_screen.dart user_products_screen.dart

cart.dart orders.dart product.dart products.dart

cart_screen.dart edit_product_screen.dart orders_screen.dart product_detail_screen.dart products_overview_screen.dart user_products_screen.dart

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

OUTLINE DEPENDENCIES

0 Δ 0 ① 98 Debug my code

Ln 75, Col 1 (261 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

```
title: product.title,
description: product.description,
price: product.price,
imageUrl: product.imageUrl,
id: DateTime.now().toString(),
); // Product
_items.add(newProduct);
// _items.insert(0, newProduct); // at the start of the list
notifyListeners();

}

void updateProduct(String id, Product newProduct) {
final prodIndex = _items.indexWhere((prod) => prod.id == id);
if (prodIndex >= 0) {
_items[prodIndex] = newProduct;
notifyListeners();
} else {
print('...');
}
}
```

providers\products.dart

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState > _saveForm

82 }
83 setState(() {});
84 }
85 }
86
87 void _saveForm() {
88 final isValid = _form.currentState.validate();
89 if (!isValid) {
90 return;
91 }
92 _form.currentState.save();
93 if (_editedProduct.id != null) {
94 Provider.of<Products>(context, listen: false)
95 ..updateProduct(_editedProduct.id, _editedProduct);
96 } else {
97 Provider.of<Products>(context, listen: false).addProduct(_editedProduct);
98 }
99 Navigator.of(context).pop();
100 }
101
102 @override
103 Widget build(BuildContext context) {

screens\edit_product_screen.dart

Ln 100, Col 1 (289 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help

edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

120 TextFormField(
121 initialValue: _initValues['title'],
122 decoration: InputDecoration(labelText: 'Title'),
123 textInputAction: TextInputAction.next,
124 onFieldSubmitted: (_) {
125 FocusScope.of(context).requestFocus(_priceFocusNode);
126 },
127 validator: (value) {
128 if (value.isEmpty) {
129 return 'Please provide a value.';
130 }
131 return null;
132 },
133 onSaved: (value) {
134 _editedProduct = Product(
135 title: value,
136 price: _editedProduct.price,
137 description: _editedProduct.description,
138 imageUrl: _editedProduct.imageUrl,
139 id: _editedProduct.id,
140 isFavorite: _editedProduct.isFavorite,
141); // Product

screens\edit_product_screen.dart

Ln 141, Col 1 (104 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X user_product_item.dart user_products_screen.dart products.dart

OPEN EDITORS lib > screens > edit_product_screen.dart > _EditProductScreenState > build

153 ,
154 validator: (value) {
155 if (value.isEmpty) {
156 return 'Please enter a price.';
157 }
158 if (double.tryParse(value) == null) {
159 return 'Please enter a valid number.';
160 }
161 if (double.parse(value) <= 0) {
162 return 'Please enter a number greater than zero.';
163 }
164 return null;
165 },
166 onSaved: (value) {
167 _editedProduct = Product(
168 title: _editedProduct.title,
169 price: double.parse(value),
170 description: _editedProduct.description,
171 imageUrl: _editedProduct.imageUrl,
172 id: _editedProduct.id,
173 isFavorite: _editedProduct.isFavorite,
174); // Product
},

screens\edit_product_screen.dart

Ln 173, Col 1 (104 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart X user_product_item.dart user_products_screen.dart products.dart

lib > screens > edit_product_screen.dart > _EditProductScreenState > build

```
decoration: InputDecoration(labelText: 'Description'),  
maxLines: 3,  
keyboardType: TextInputType.multiline,  
focusNode: _descriptionFocusNode,  
validator: (value) {  
    if (value.isEmpty) {  
        return 'Please enter a description.';  
    }  
    if (value.length < 10) {  
        return 'Should be at least 10 characters long.';  
    }  
    return null;  
},  
onSaved: (value) {  
    _editedProduct = Product(  
        title: _editedProduct.title,  
        price: _editedProduct.price,  
        description: value,  
        imageUrl: _editedProduct.imageUrl,  
        id: _editedProduct.id,  
        isFavorite: _editedProduct.isFavorite,  
    ); // Product
```

178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200

LN 199, Col 1 (104 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help edit_product_screen.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart user_products_screen.dart products.dart

OPEN EDITORS lib > screens > edit_product_screen.dart > _EditProductScreenState > build

edit_product_screen.dart lib\scree... user_product_item.dart lib\widgets user_products_screen.dart lib\scre... products.dart lib\providers

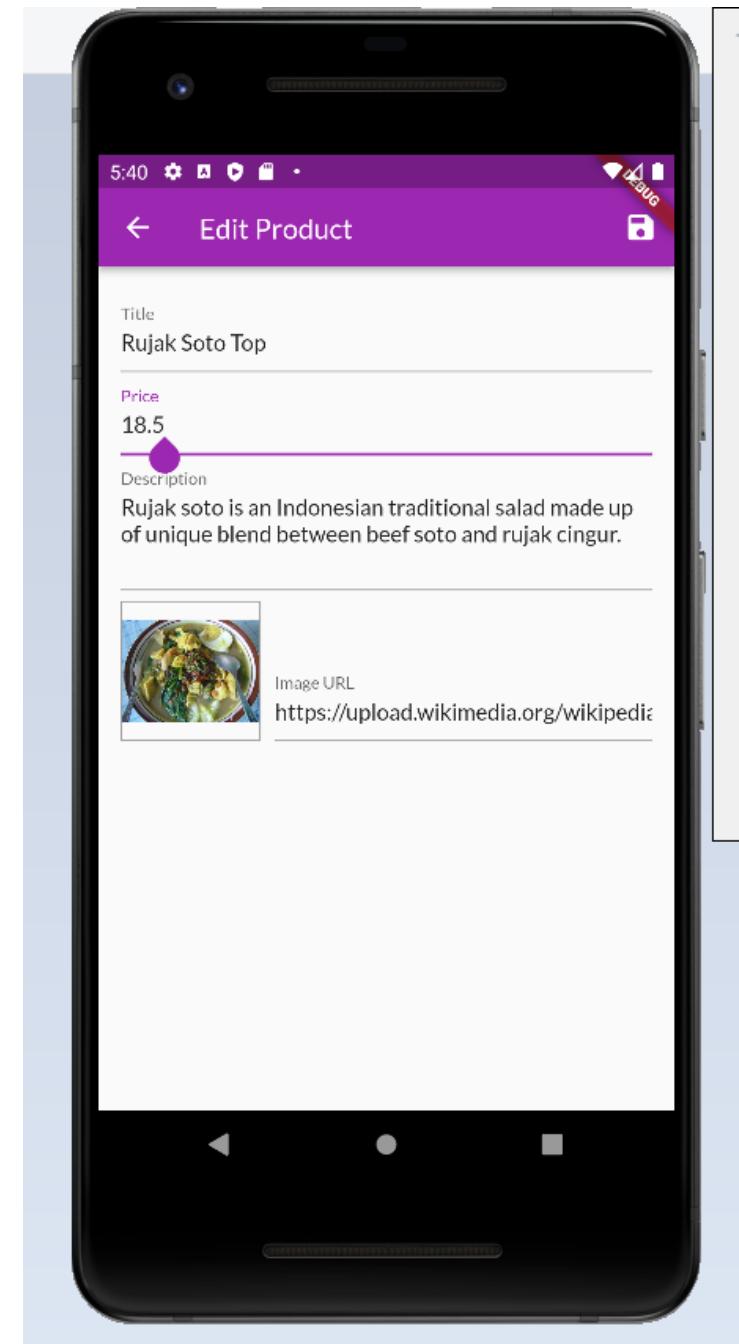
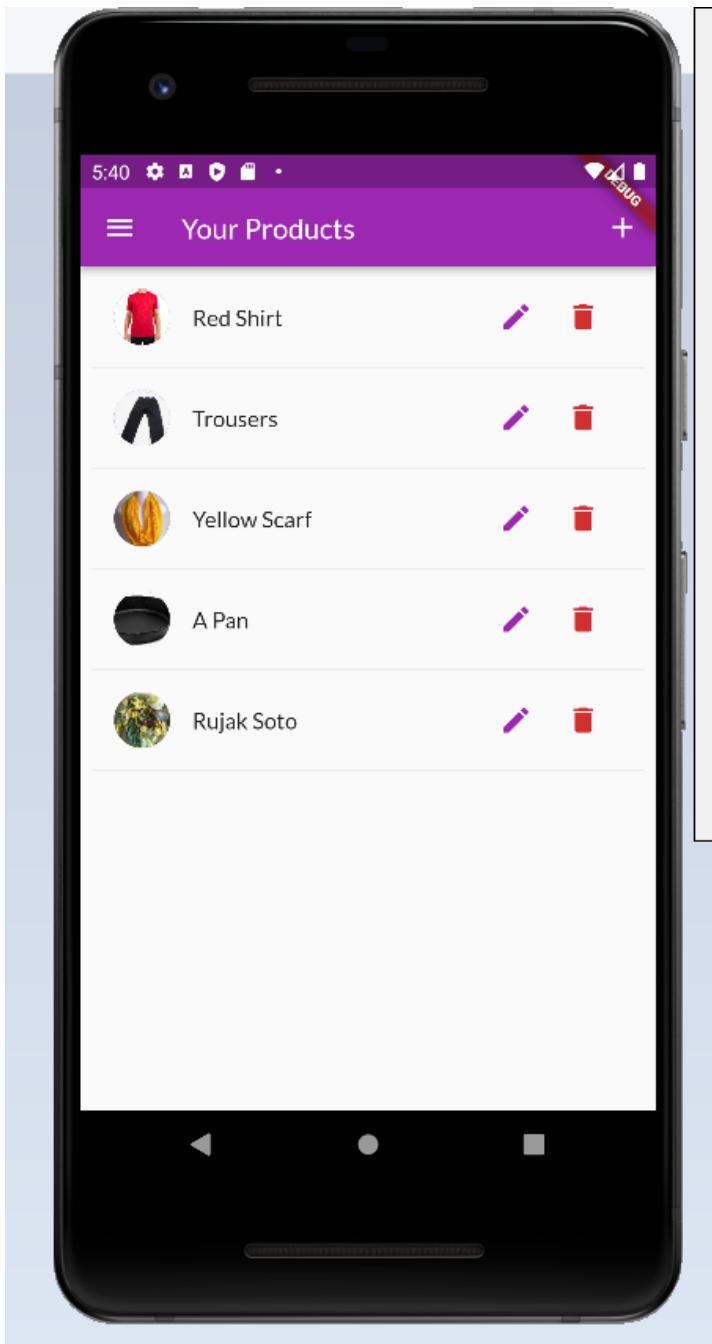
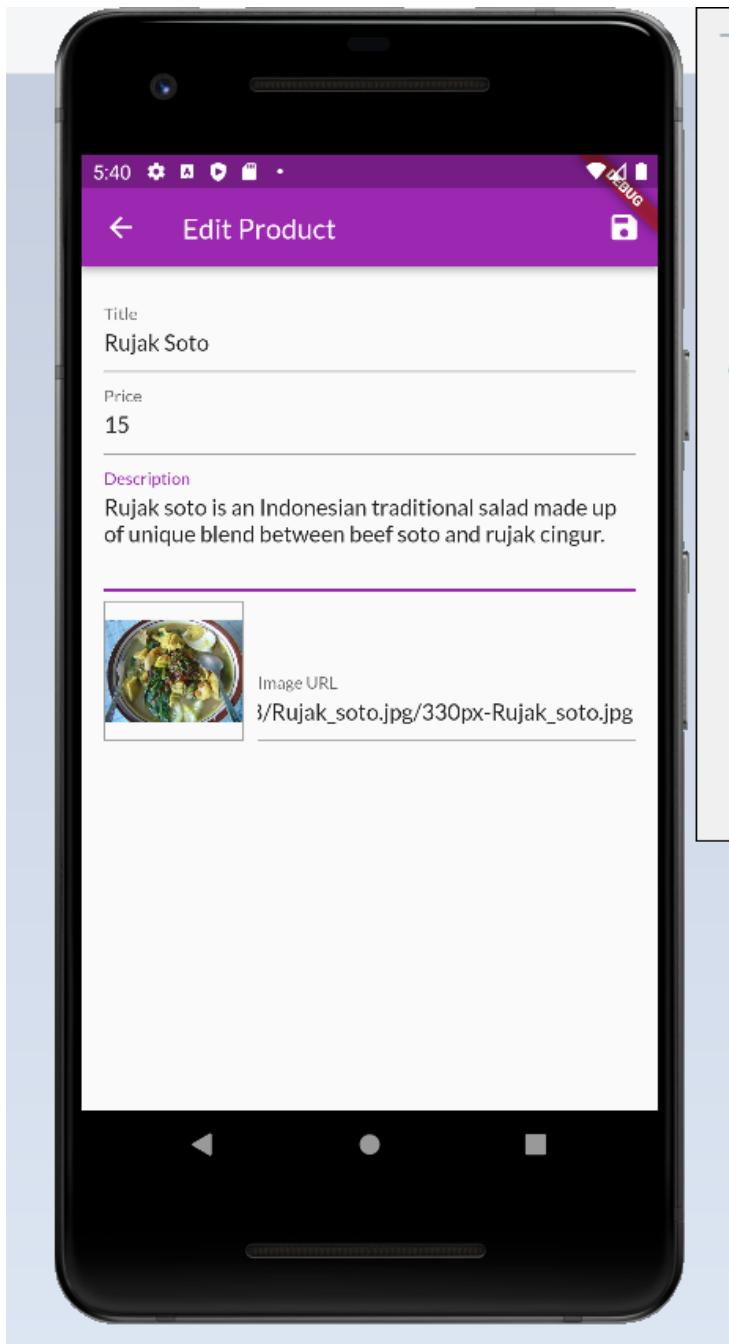
MYSHOP_08 lib models providers cart.dart orders.dart product.dart products.dart screens cart_screen.dart edit_product_screen.dart orders_screen.dart product_detail_screen.dart products_overview_screen.dart user_products_screen.dart widgets app_drawer.dart badge.dart cart_item.dart order_item.dart product_item.dart products_grid.dart user_product_item.dart main.dart test web

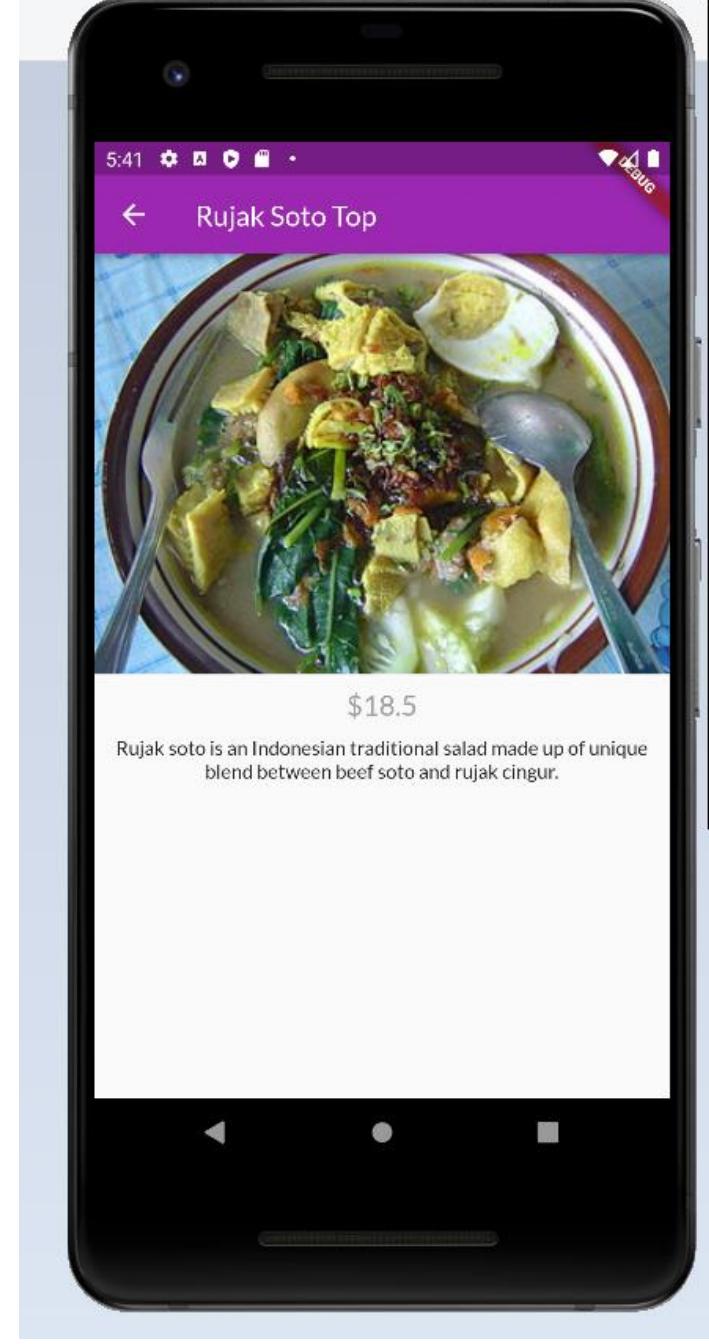
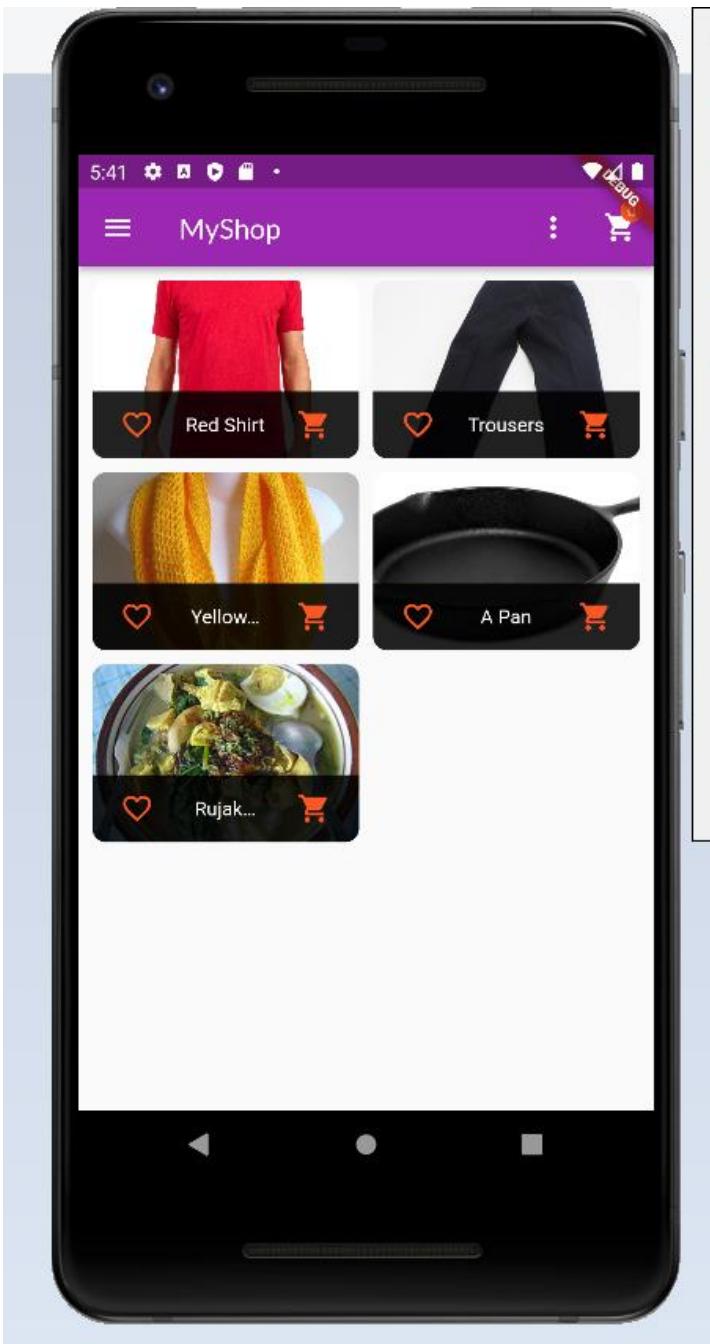
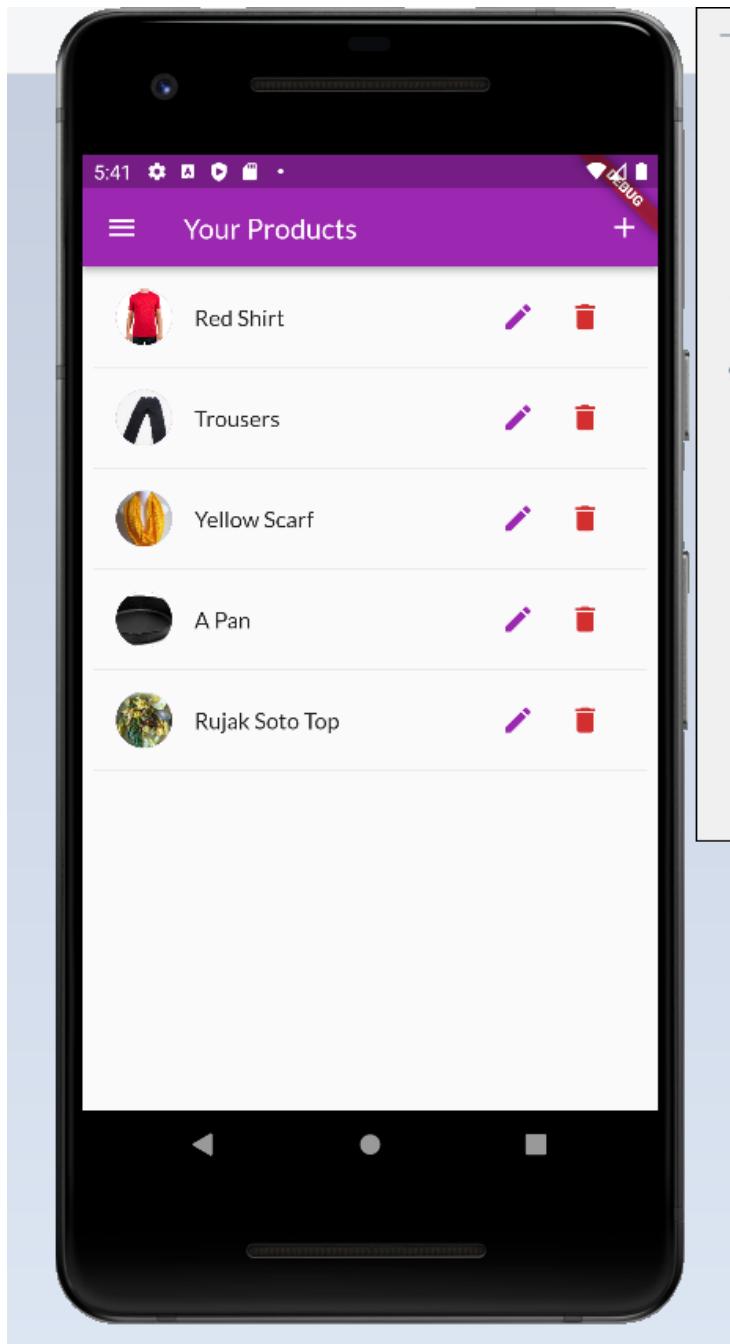
edit_product_screen.dart (1)

```
241 if (!value.startsWith('http') &&
242     !value.startsWith('https')) {
243     return 'Please enter a valid URL.';
244 }
245 if (!value.endsWith('.png') &&
246     !value.endsWith('.jpg') &&
247     !value.endsWith('.jpeg')) {
248     return 'Please enter a valid image URL.';
249 }
250 return null;
251 },
252 onSaved: (value) {
253     _editedProduct = Product(
254         title: _editedProduct.title,
255         price: _editedProduct.price,
256         description: _editedProduct.description,
257         imageUrl: value,
258         id: _editedProduct.id,
259         isFavorite: _editedProduct.isFavorite,
260     ); // Product
261 },
262 ), // TextFormField
```

screens\edit_product_screen.dart

LN 260, Col 1 (116 selected) Spaces: 2 UTF-8 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier





ALLOWING USERS TO DELETE PRODUCTS

File Edit Selection View Go Run Terminal Help products.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart user_products_screen.dart products.dart X

OPEN EDITORS lib > providers > products.dart Products

edit_product_screen.dart lib\scree... user_product_item.dart lib\widgets user_products_screen.dart lib\scre... products.dart lib\providers

MYSHOP_08

lib models providers screens widgets test web

edit_product_screen.dart user_products_screen.dart

cart.dart orders.dart product.dart products.dart

cart_screen.dart edit_product_screen.dart orders_screen.dart product_detail_screen.dart products_overview_screen.dart user_products_screen.dart

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

OUTLINE DEPENDENCIES

Line numbers 61 to 81 are visible on the left.

```
61     _items.add(newProduct);
62 // _items.insert(0, newProduct); // at the start of the list
63     notifyListeners();
64 }
65
66 void updateProduct(String id, Product newProduct) {
67     final prodIndex = _items.indexWhere((prod) => prod.id == id);
68     if (prodIndex >= 0) {
69         _items[prodIndex] = newProduct;
70         notifyListeners();
71     } else {
72         print('...');
73     }
74 }
75
76 void deleteProduct(String id) {
77     _items.removeWhere((prod) => prod.id == id);
78     notifyListeners();
79 }
80 }
81 }
```

providers\products.dart

File Edit Selection View Go Run Terminal Help user_product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart X user_products_screen.dart products.dart

lib > widgets > user_product_item.dart > ...

```
1 import 'package:flutter/material.dart';
2 import 'package:provider/provider.dart';
3
4 import '../screens/edit_product_screen.dart';
5 import '../providers/products.dart';
6
7 class UserProductItem extends StatelessWidget {
8     final String id;
9     final String title;
10    final String imageUrl;
11
12 UserProductItem(this.id, this.title, this.imageUrl);
13
14 @override
15 Widget build(BuildContext context) {
16     return ListTile(
17         title: Text(title),
18         leading: CircleAvatar(
19             backgroundImage: NetworkImage(imageUrl),
20         ), // CircleAvatar
21         trailing: Container(
22             width: 100,
```

windows\user_product_item.dart

Ln 6, Col 1 (129 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

File Edit Selection View Go Run Terminal Help user_product_item.dart - myshop_08 - Visual Studio Code

EXPLORER ... edit_product_screen.dart user_product_item.dart X user_products_screen.dart products.dart

lib > widgets > user_product_item.dart > UserProductItem > build

21 trailing: Container(
22 width: 100,
23 child: Row(
24 children: <Widget>[
25 IconButton(
26 icon: Icon(Icons.edit),
27 onPressed: () {
28 Navigator.of(context)
29 .pushNamed(EditProductScreen.routeName, arguments: id);
30 },
31 color: Theme.of(context).primaryColor,
32), // IconButton
33 IconButton(
34 icon: Icon(Icons.delete),
35 onPressed: () {
36 Provider.of<Products>(context, listen: false).deleteProduct(id);
37 },
38 color: Theme.of(context).errorColor,
39), // IconButton
40], // <Widget>[]
41), // Row
42), // Container

widgets\user_product_item.dart

Ln 40, Col 1 (265 selected) Spaces: 2 CRLF Dart Dart DevTools Flutter: 2.5.3 Flutter Emulator (android-x86 emulator) Prettier

