Name: Devesh Wadhwa

Roll No: 68

MAD and PWA Lab
EXPERIMENT - 3

Aim: To include icons, images, fonts in Flutter app

Theory:

Fonts:

In Flutter, the TextStyle class is used to define the styling for text within the Text widget or other widgets that involve displaying text. Here's an overview of how you can use the TextStyle class to set various font-related properties

fontSize:
You can set the size of the font using the fontSize property.

fontWeight:
The fontWeight property allows you to set the thickness of the characters in the text.

fontStyle:
The fontStyle property lets you specify whether the text should be in normal, italic, or oblique style.

fontFamily:
You can specify the font family using the fontFamily property. This refers to the specific font you want to use, and it should be available in your project.

decoration:
The decoration property allows you to add decorations to the text, such as underline or overline

Text

A Text widget holds some text to display on the screen. We can align the text widget by using textAlign property, and style property allow the customization of Text that includes font, font weight, font style, letter spacing, color, and many more.

1. Button

This widget allows you to perform some action on click. Flutter does not allow
you to use the Button widget directly; instead, it uses a type of buttons like a FlatButton and a RaisedButton.

2. Image

This widget holds the image which can fetch it from multiple sources like from the asset folder or directly from the URL. It provides many constructors for loading image, which are given below:

o Image: It is a generic image loader, which is used by ImageProvider.

o asset: It load image from your project asset folder.

o file: It loads images from the system folder.

o memory: It load image from memory.

o network: It loads images from the network.

To add an image in the project, you need first to create an assets folder where you keep your images and then add the below line in pubspec.yaml file.

```
assets:
- assets/images
```

Code:
Booking_details_screen

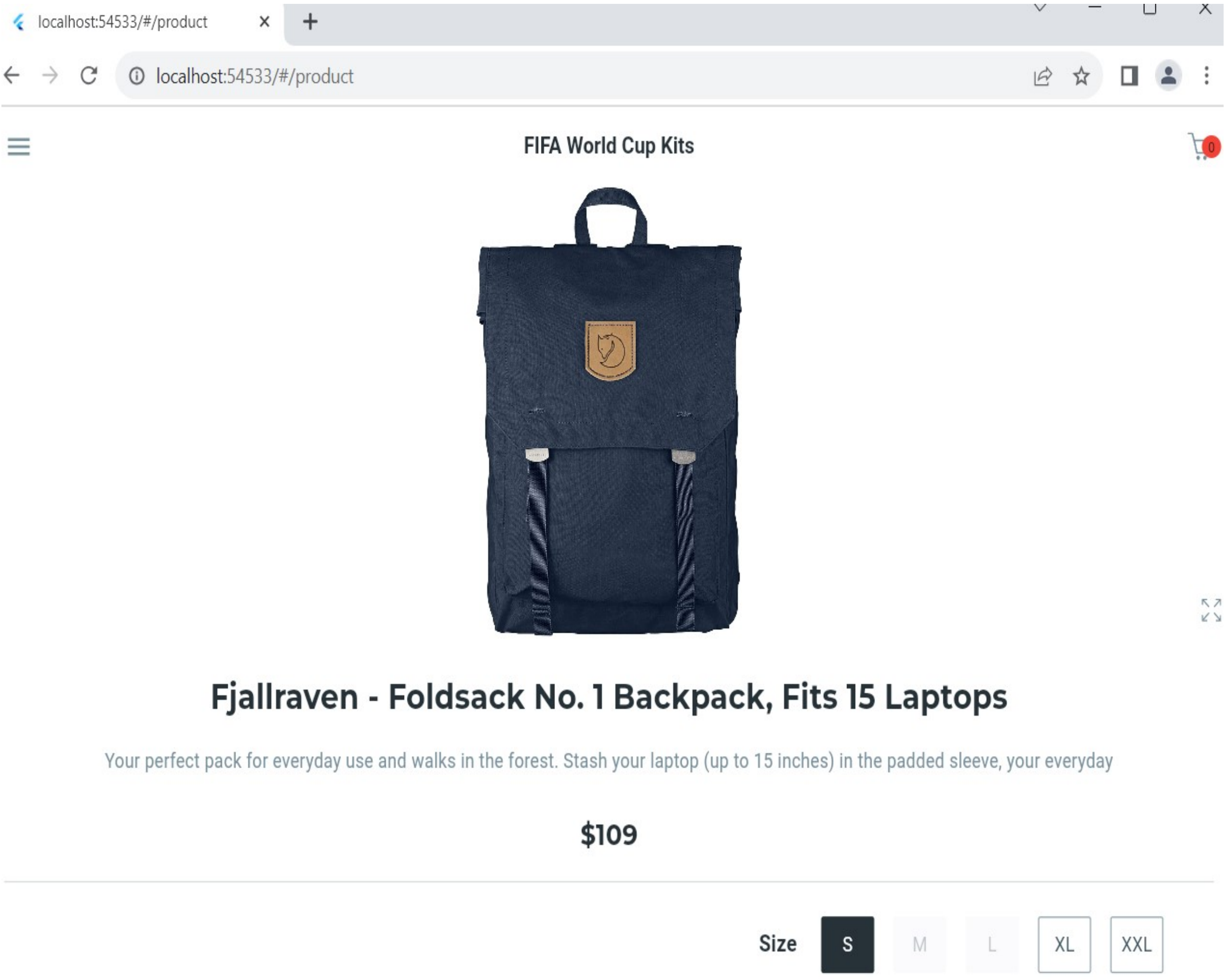
```
import 'dart:math';
import 'package:auto_route/auto_route.dart';
import 'package:flutter/material.dart';
import 'package:flutter_bloc/flutter_bloc.dart';
import 'package:flutter_svg/flutter_svg.dart';
import 'package:tshirts/models/product.dart';
import 'package:tshirts/states/cart_cubit.dart';
import 'package:tshirts/states/detail_cubit.dart';
import 'package:tshirts/states/productCubit.dart';
import 'package:tshirts/theme.dart';
import 'package:tshirts/widgets/also_like.dart';
import 'package:tshirts/widgets/qty.dart';

@RoutePage()
class ProductScreen extends StatelessWidget {
 final Product? prod;
 const ProductScreen({Key? key, this.prod}) : super(key: key);

 @override
 Widget build(BuildContext context) {
   var qtyKey = GlobalKey<QtyState>();
   return Scaffold(
     backgroundColor: ThemeColors.scaffold,
     body: BlocBuilder<DetailCubit, Product?>(
       builder: (BuildContext context, prod) {
         List<Product> alsoo = [];
         if (prod != null) {
           final List<Product> all = BlocProvider.of<ProductCubit>(context)
               .state['all'] as List<Product>;
           if (true) {
             for (int i = 0; i < all.length; i++) {
               if (all[i].id != prod.id) {
                 alsoo.add(all[i]);
               }
             }
           }
           return ListView(
             children: [
               Stack(
                 alignment: Alignment.center,
                 children: [
                   SizedBox(
                     width: MediaQuery.of(context).size.width,
                     height: 318,
                     child: Image.network(
                       prod.image,
                     ),
                   ),
                   Positioned(
                     right: 10,
                     bottom: 10,
                     child: SvgPicture.string(
                         '<svg width="17" height="17" viewBox="0 0 17 17" fill="none"
xmlns="http://www.w3.org/2000/svg">  <path fill-rule="evenodd" clip-rule="evenodd" d="M11.6978 > '),
                   ),
                 ],
               ),
               Column(
                 crossAxisAlignment: CrossAxisAlignment.center,
                 children: [
                   const SizedBox(
                     height: 25,
                   ),
                   Text(prod.title,
                       style: ThemeFonts.productDetailTitle,
                       textAlign: TextAlign.center),
                   const SizedBox(
                     height: 6,
                   ),
                   Padding(
                     padding: const EdgeInsets.all(12.0),
                     child: Text(
                       prod.description,
                       style: ThemeFonts.productDescr,
                       textAlign: TextAlign.center,
                     ),
                   ),
                   const SizedBox(
                     height: 17,
                   ),
                   Text(
                     "\$${prod.price.toInt()}",
                     style: ThemeFonts.productDetailPrice,
                   ),
                   const SizedBox(
                     height: 18,
                   ),
                   const Divider(
                     height: 0.3,
                     color: Color.fromRGBO(127, 151, 163, 0.32),
                     indent: 16,
                     endIndent: 16,
                   ),
                   const SizedBox(
                     height: 24,
                   ),
                   ButtonLine(
                       zag: "Size", btns: const ['S', 'M', 'L', 'XL', "XXL"]),
                   const SizedBox(
                     height: 32,
                   ),
                   ButtonLine(
                     zag: "Kit",
                     btns: const ['HOME', 'AWAY', 'THIRD'],
                     wWidth: 72,
                   ),
                   const SizedBox(
                     height: 24,
                   ),
                   Row(
                     crossAxisAlignment: CrossAxisAlignment.start,
                     children: [
                       Qty(
                         qt: 1,
                         key: qtyKey,
                       ),
                     ],
                   ),
                   const SizedBox(
                     height: 34,
                   ),
                   Row(
                     mainAxisAlignment: MainAxisAlignment.start,
                     children: [
                       const SizedBox(
                         width: 16,
                         height: 34,
                       ),
                       const Text(
                         "Customize Your Jersey",
                         style: ThemeFonts.r16,
                       ),
                       const Expanded(child: Text("")),
                       SvgPicture.asset('images/v.svg'),
                       const SizedBox(
                         width: 16,
                       ),
                     ],
                   ),
                   const SizedBox(
                     height: 40,
                   ),
                   InkWell(
                     onTap: () {
                       BlocProvider.of<CartCubit>(context)
                           .add(prod.id, qtyKey.currentState!.widget.qt);
                     },
                     child: Container(
                       height: 40,
                       width: 311,
                       alignment: Alignment.center,
                       decoration: ThemeFonts.cyanButton,
                       child: const Text(
                         "ADD TO CART",
                         style: ThemeFonts.cyanButtonText,
                       ),
                     ),
                   ),
                   const SizedBox(
                     height: 24,
                   ),
                   const Divider(
                     height: 2,
                     color: Color.fromRGBO(38, 50, 56, 0.12),
                     indent: 16,
                     endIndent: 16,
                   ),
                   const SizedBox(
                     height: 27,
                   ),
                   Row(
                     mainAxisAlignment: MainAxisAlignment.start,
                     children: [
                       const SizedBox(
                         width: 16,
                         height: 34,
                       ),
                       const Text(
                         "Product Details",
                         style: ThemeFonts.r16,
                       ),
                       const Expanded(child: Text("")),
                       SvgPicture.asset('images/v.svg'),
                       const SizedBox(
                         width: 16,
                       ),
                     ],
                   ),
                   const SizedBox(
                     height: 12,
                   ),
                   Row(
                     mainAxisAlignment: MainAxisAlignment.start,
                     children: [
                       const SizedBox(
                                 width: 16,
                                 height: 34,
                               ),
                               const Text(
                                 "Shipping & Returns",
                                 style: ThemeFonts.r16,
                               ),
                               const Expanded(child: Text("")),
                               SvgPicture.asset('images/v.svg'),
                               const SizedBox(
                                 width: 16,
                               ),
                             ],
                           ),
                           const SizedBox(
                             height: 24,
                           ),
                           const Divider(
                             height: 2,
                             color: Color.fromRGBO(38, 50, 56, 0.12),
                             indent: 16,
                             endIndent: 16,
                           ),
                           const SizedBox(
                             height: 24,
                           ),
                           const Row(
                             crossAxisAlignment: CrossAxisAlignment.start,
                             children: [
                               SizedBox(
                                 width: 16,
                               ),
                               Text(
                                 "You May Also Like",
                                 style: ThemeFonts.productDetailGray,
                                 textAlign: TextAlign.left,
                               ),
                             ],
                           ),
                           const SizedBox(
                             height: 16,
                           ),
                           SizedBox(
                             height: 240,
                             child: ListView(
                               scrollDirection: Axis.horizontal,
                               children: alsoo.map((e) => AlsoLike(prod: e)).toList(),
                             ),
                           ),
                         ],
                       ),
                     ],
                   );
```

```
         } else {
           return const SizedBox();
         }
       },
     ),
   );
 }
}

class SizeBoxWidget extends StatelessWidget {
 final bool active;
 final String sizeIndex;
 final bool selected;
 final double wWidth;

 const SizeBoxWidget(
     {Key? key,
     this.active = true,
     required this.sizeIndex,
     this.wWidth = 44,
     this.selected = false})
     : super(key: key);

 get _color {
   var r = 0xFF455A64;
   if (!active) {
     r = 0x55455A64;
   }
   if (selected) {
     r = 0xFFFFFFFF;
   }
   return r;
 }

 get _bgcolor {
   var r = Colors.white;
   if (!active) {
     r = const Color.fromARGB(60, 236, 239, 241);
   }
   if (selected) {
     r = const Color(0xFF263238);
   }
   if (sizeIndex == '+' || sizeIndex == '-') {
     r = const Color(0xFFECEFF1);
   }

   return r;
 }

 get _borders {
   var w = 1.0;
   var c = const Color(0xFF90A4AE);
```

```
    if (!active || selected || sizeIndex == '-' || sizeIndex == '+') {
      w = 0;
      c = Colors.transparent;
    }
    return Border.all(
      width: w,
      color: c,
    );
  }

  @override
  Widget build(BuildContext context) {
    return Container(
      height: 40,
      width: wWidth,
      margin: const EdgeInsetsDirectional.symmetric(horizontal: 8),
      padding: const EdgeInsetsDirectional.symmetric(horizontal: 8),
      alignment: Alignment.center,
      decoration: BoxDecoration(
        color: _bgcolor,
        border: _borders,
        borderRadius: BorderRadius.circular(2),
      ),
      child: Text(sizeIndex,
          style: TextStyle(
            color: Color(_color),
          )),
    );
  }
}

class ButtonLine extends StatefulWidget {
  final String zag;
  final List btns;
  final double wWidth;
  ButtonLine(
      {required this.zag, required this.btns, this.wWidth = 44, super.key});

  Map<String, bool> act0 = {};
  Map<String, bool> sel0 = {};
  // final Map act0 = {};

  @override
  State<ButtonLine> createState() => _ButtonLineState();
}

class _ButtonLineState extends State<ButtonLine> {
  _ButtonLineState();

  @override
  Widget build(BuildContext context) {
    if (widget.act0.isEmpty) {
      for (final e in widget.btns) {
```

```
    widget.act0[e] = Random().nextBool();
    widget.sel0[e] = false;
  }

  var set = false;

  widget.act0.forEach((key, value) {
    if (value) {
      if (!set) {
        widget.sel0[key] = true;
        set = true;
      }
    }
  });
}
return Row(
  mainAxisAlignment: MainAxisAlignment.end,
  crossAxisAlignment: CrossAxisAlignment.center,
  children: [
    Text(
      widget.zag,
      style: ThemeFonts.r16,
    ),
    const SizedBox(
      width: 12,
    ),
    SizedBox(
      height: 40,
      width: 350,
      child: ListView(
        scrollDirection: Axis.horizontal,
        children: widget.btns.map((e) {
          return InkWell(
            onTap: () {
              if (widget.act0[e]!) {
                for (final a in widget.btns) {
                  widget.sel0[a] = false;
                }
                widget.sel0[e] = true;
                setState(() {});
              }
            },
            child: SizeBoxWidget(
              sizeIndex: e,
              wWidth: widget.wWidth,
              active: widget.act0[e]!,
              selected: widget.sel0[e]!,
            ),
          );
        }).toList(),
      ),
    ),
  ],
  );
 }
}
```

Output:



Fjallraven - Foldsack No. 1 Backpack, Fits 15 Laptops

Your perfect pack for everyday use and walks in the forest. Stash your laptop (up to 15 inches) in the padded sleeve, your everyday

$109

Conclusion:

In this experiment, we have succesfully imported and inerted image in the flutter and used font style to enter text and succesfully created button for it. All concept of image , font are implemented succesfully.