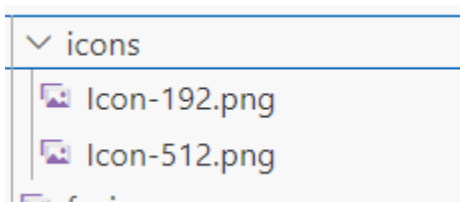# Experiment 3

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

Theory: Flutter allows developers to customize their applications by including:

- **Images** from the assets directory.

- **Custom Fonts** defined in the pubspec.yaml file.

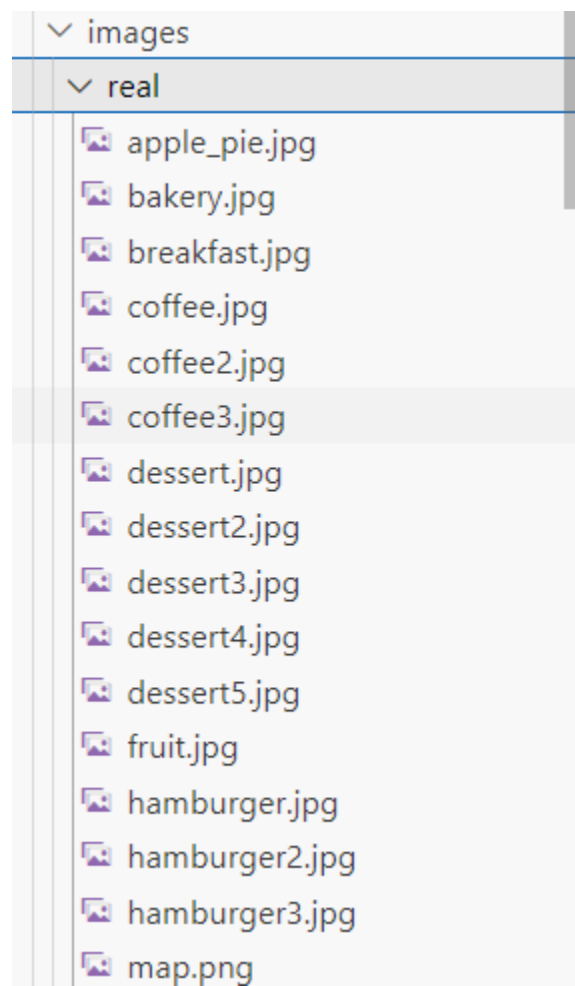- **Icons**, including built-in Material and Cupertino icon packs.
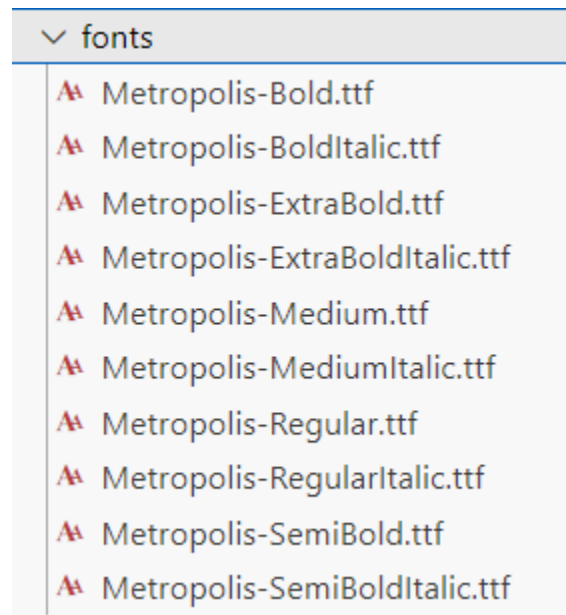
Add the cupertino icons in your dependencies and a folder which contains all the icons

```
∨ icons
    Icon-192.png
    Icon-512.png
```

```
  cupertino_icons: ^1.0.2
```

```
dev_dependencies:
```

Similarly Add Fonts and Images

fonts
- Metropolis-Bold.ttf
- Metropolis-BoldItalic.ttf
- Metropolis-ExtraBold.ttf
- Metropolis-ExtraBoldItalic.ttf
- Metropolis-Medium.ttf
- Metropolis-MediumItalic.ttf
- Metropolis-Regular.ttf
- Metropolis-RegularItalic.ttf
- Metropolis-SemiBold.ttf
- Metropolis-SemiBoldItalic.ttf

images
- **real**
  - apple_pie.jpg
  - bakery.jpg
  - breakfast.jpg
  - coffee.jpg
  - coffee2.jpg
  - coffee3.jpg
  - dessert.jpg
  - dessert2.jpg
  - dessert3.jpg
  - dessert4.jpg
  - dessert5.jpg
  - fruit.jpg
  - hamburger.jpg
  - hamburger2.jpg
  - hamburger3.jpg
  - map.png

Code: //about

```
Widget build(BuildContext context) {
  return Scaffold(
    body: Stack(
      children: [
        SafeArea(
          child: Padding(
            padding: const
EdgeInsets.symmetric(horizontal: 20.0),
            child: Column(
              children: [
                Row(
                  children: [
                    IconButton(
                      onPressed: () {
                        Navigator.of(context).pop();
                      },
                      icon: Icon(
                        Icons.arrow_back_ios_rounded,
                      ),
                    ),
                    Expanded(
                      child: Text(
                        "About Us",
                        style:
Helper.getTheme(context).headline5,
                      ),
                    ),
                    Image.asset(
                      Helper.getAssetName("cart.png",
"virtual"),
```

```
          ),
        ],

//home
Widget build(BuildContext context) {
  return Scaffold(
    body: Stack(
      children: [
        SafeArea(
          child: SingleChildScrollView(
            child: Column(
              crossAxisAlignment:
CrossAxisAlignment.start,
              children: [
                SizedBox(
                  height: 20,
                ),
                Padding(
                  padding: const EdgeInsets.symmetric(
                    horizontal: 20,
                  ),
                  child: Row(
                    mainAxisAlignment:
MainAxisAlignment.spaceBetween,
                    children: [
                      Text(
                        "Good morning Akila!",
                        style:
Helper.getTheme(context).headline5,
                      ),
                      Image.asset(Helper.getAssetName("
cart.png", "virtual"))
```

```
        ],
      ),
    ),
    SizedBox(
      height: 20,
    ),
    Padding(
      padding: const EdgeInsets.symmetric(
        horizontal: 20,
      ),
      child: Text("Deilivering to"),
    ),
    Padding(
      padding: const EdgeInsets.symmetric(
        horizontal: 20,
      ),
      child:
DropdownButtonHideUnderline(
        child: SizedBox(
          width: 250,
          child: DropdownButton(
            value: "current location",
            items: [
              DropdownMenuItem(
                child: Text("Current Location"),
                value: "current location",
              ),
            ],
            icon: Image.asset(
              Helper.getAssetName(
```

```
                    "dropdown_filled.png",
"virtual"),
                ),
                style:
Helper.getTheme(context).headline4,
                onChanged: (_) {},
              ),
            ),
          ),
        ),
        SizedBox(
          height: 20,
        ),
        SearchBar(
          title: "Search Food",
        ),
        SizedBox(
          height: 20,
        ),
        Container(
          width: double.infinity,
          padding: const EdgeInsets.only(
            left: 20,
          ),
          child: SingleChildScrollView(
            scrollDirection: Axis.horizontal,
            child: Row(
              children: [
                CategoryCard(
                  image: Image.asset(
                    Helper.getAssetName("hamburg
er2.jpg", "real"),
```
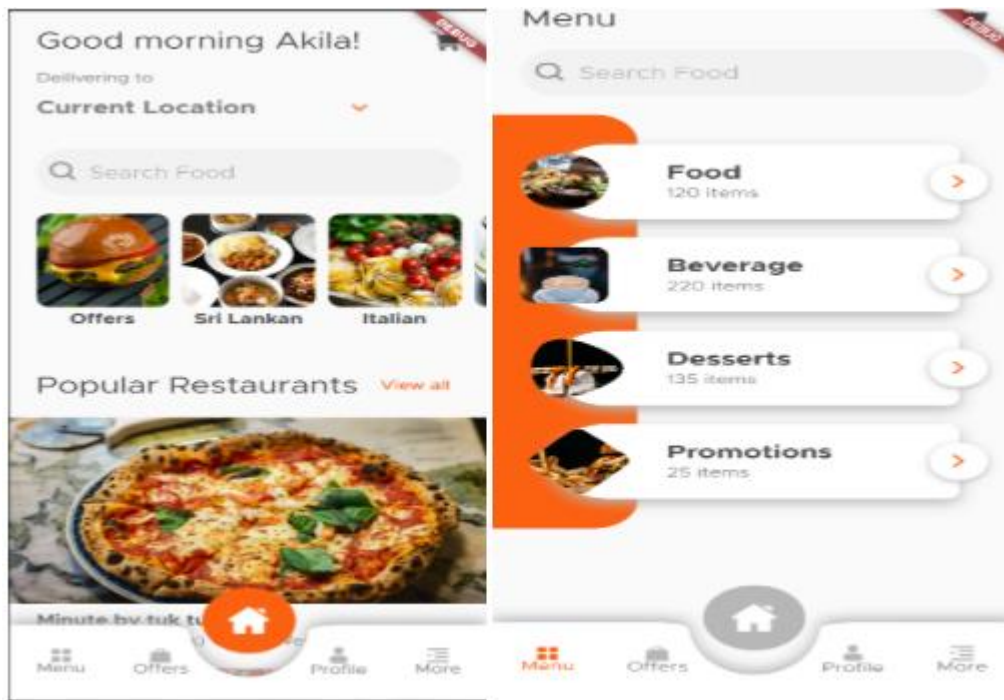
```
                    fit: BoxFit.cover,
                 ),
                 name: "Offers",
              ),
              SizedBox(
                width: 10,
              ),
              CategoryCard(
                image: Image.asset(
                  Helper.getAssetName("rice2.jpg
", "real"),
                    fit: BoxFit.cover,
                 ),
                 name: "Sri Lankan",
              ),
              SizedBox(
                width: 10,
              ),
              CategoryCard(
                image: Image.asset(
                  Helper.getAssetName("fruit.jpg
", "real"),
                    fit: BoxFit.cover,
                 ),
                 name: "Italian",
              ),
              SizedBox(
                width: 10,
              ),
              CategoryCard(
                image: Image.asset(
```

```
                    Helper.getAssetName("rice.jpg"
, "real"),

                      fit: BoxFit.cover,
                 ),
                 name: "Indian",
              ),
              SizedBox(
                width: 10,
              ),
            ],
          ),
        ),
      ),
      SizedBox(
        height: 50,
      ),
      Padding(
        padding: const
EdgeInsets.symmetric(horizontal: 20.0),
        child: Row(
          mainAxisAlignment:
MainAxisAlignment.spaceBetween,
          children: [
            Text(
              "Popular Restaurants",
              style:
Helper.getTheme(context).headline5,
            ),
            TextButton(onPressed: () {}, child:
Text("View all"))
          ],
        ),
```

```
      ),
      SizedBox(
        height: 20,
      ),
      RestaurantCard(
        image: Image.asset(
          Helper.getAssetName("pizza2.jpg",
"real"),
          fit: BoxFit.cover,
        ),
        name: "Minute by tuk tuk",
      ),
      RestaurantCard(
        image: Image.asset(
          Helper.getAssetName("breakfast.jpg"
, "real"),
          fit: BoxFit.cover,
```

Conclusion: In this lab, we successfully included and configured images, custom fonts, and Cupertino icons in a Flutter app. Through the Meal Monkey homepage, we saw how to declare and use these assets to enhance the UI. Using pubspec.yaml correctly and applying these features helped make the app visually appealing and platform-friendly.