Practical-9

Aim : Introduction to navigation, navigation drawer and create multi- screen application.

What is Navigation in flutter ?

The Navigator class provides all the navigation capabilities in a Flutter app. Navigator provides methods to mutate the stack by a push to stack or by popping from the stack. The Navigator. push method is for navigating to a newer page and Navigator. pop is for going back from the current page.

What is Navigation drawer in flutter ?

The navigation drawer in Flutter allows users to navigate to different pages of your app. The navigation drawer is added using the Drawer widget. It can be opened via swipe gesture or by clicking on the menu icon in the app bar.

What is Scaffold in flutter?

Scaffold is a class in flutter which provides many widgets or we can say APIs like Drawer, Snack-Bar, Bottom-Navigation-Bar, Floating-Action-Button, App-Bar, etc. Scaffold will expand or occupy the whole device screen. It will occupy the available space.

What is ListTile in flutter?

ListTile widget is used to populate a ListView in Flutter. It contains title as well as leading or trailing icons.

What is ElavatedButton in flutter?

An elevated button is a label child displayed on a Material widget whose Material.elevation increases when the button is pressed. The label's Text and Icon widgets are displayed in style's ButtonStyle.foregroundColor and the button's filled background is the ButtonStyle.backgroundColor.

What is Navigatorpop()?

The pop() method removes the current Route from the stack of routes managed by the Navigator . To implement a return to the original route, update the onPressed() callback in the SecondRoute widget: content_copy.

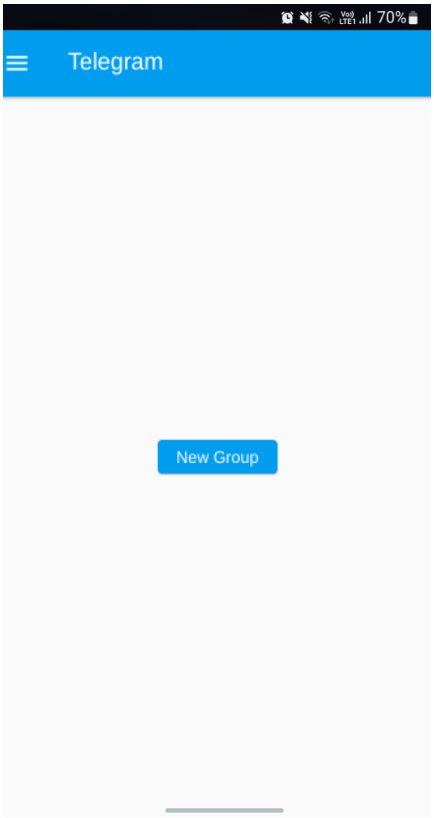
Code :

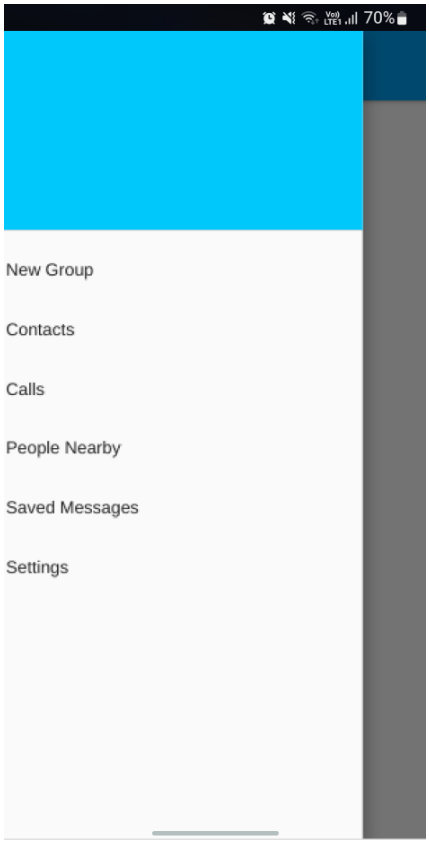
```
import 'package:flutter/material.dart';

void main() {
  runApp(const MaterialApp(
    debugShowCheckedModeBanner: false,
    title: 'navigation basics',
    home: FirstRoute(),
  ));
}

class FirstRoute extends StatelessWidget {
  const FirstRoute({Key? key}): super(key: key);



  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Telegram'),
        backgroundColor: Colors.cyanAccent[600],
      ),
      body: Center(
        child: ElevatedButton(
          child: const Text('New Group'),
          onPressed: () {
            Navigator.push(context,
              MaterialPageRoute(builder: (context) => const SecondRoute()),
            );
          },
        ),
      ),
      drawer: Drawer(
        child: ListView(
          padding: EdgeInsets.zero,
          children: [
            const DrawerHeader(
              decoration: BoxDecoration(
                color: Colors.lightBlueAccent,
              ),
              child: Text(''),
            ),
            ListTile(
              title: const Text('New Group'),
```

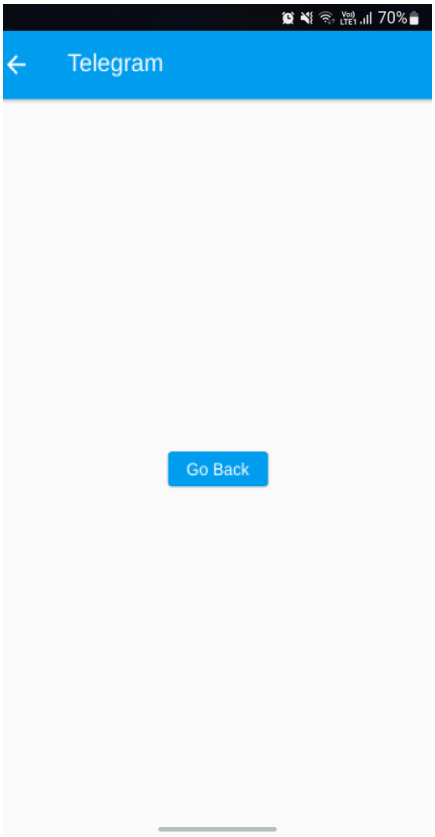
```
            onTap: () {
              Navigator.pop(context);
            },
          ),
          ListTile(
            title: const Text('Contacts'),
            onTap: () {
              Navigator.pop(context);
            },
          ),
          ListTile(
            title: const Text('Calls'),
            onTap: () {
              Navigator.pop(context);
            },
          ),
          ListTile(
            title: const Text('People Nearby'),
            onTap: () {
              Navigator.pop(context);
            },
          ),
          ListTile(
            title: const Text('Saved Messages'),
            onTap: () {
              Navigator.pop(context);
            },
          ),
          ListTile(
            title: const Text('Settings'),
            onTap: () {
              Navigator.pop(context);
            },
          )
        ],
      ),
    ),
  );
 }
}
```

```
class SecondRoute extends StatelessWidget {
  const SecondRoute({Key? key}): super(key: key);

  @override
  Widget build(BuildContext context)
  {
    return Scaffold(
      appBar: AppBar(
        title: const Text('Telegram'),
      ),
      body: Center(
        child: ElevatedButton(
          onPressed: (){
            Navigator.pop(context);
          },
          child: const Text('Go Back'),
        ),
      ),
    );
  }
}
```

Output :


Telegram
New Group


New Group
Contacts
Calls
People Nearby
Saved Messages
Settings


Telegram
Go Back