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D15A_60

Experiment no. :- 05

Aim :- : To apply navigation,routing and gestures in Flutter.

Theory :-

In Flutter, navigation, routing, and gestures are essential concepts for creating interactive and navigable user interfaces.

Navigation: Navigation refers to the process of moving between different screens or pages within a Flutter app. Flutter provides the Navigator widget for managing navigation and routing.

Routing: Routing is the mechanism used to define the paths or routes between different screens in your app. Each route typically corresponds to a different widget or screen in your app.

Gesture Detection: Gestures allow users to interact with the app by tapping, dragging, swiping, or performing other touch-based actions. Flutter provides various gesture detection widgets to handle user input.

```
GestureDetector(
onTap: () {
print('Container tapped');
 },
child: Container(
width: 200,
height: 200,
color: Colors.blue,
child: Center(
 child: Text('Tap Me'),
 ),
 ),
)
```

Code :-

```dart
import 'package:flutter/material.dart';
import 'package:telegram_clone_flutter/screens/dark_mode/drawer_dark.dart';
import 'package:telegram_clone_flutter/screens/models/chat_model.dart';

import 'chatting.dart';


class HomeScreenDark extends StatefulWidget {
  @override
  _HomeScreenDarkState createState() => _HomeScreenDarkState();
}

class _HomeScreenDarkState extends State<HomeScreenDark> {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Color(0xff1d2733),
      appBar: AppBar(

        backgroundColor: Color(0xff212d3b),
        title: Text('Telegram'),
        actions: <Widget>[
         Padding(
           padding: const EdgeInsets.all(8.0),
           child: Icon(Icons.search),
         )
        ],
      ),
      drawer: Theme(
      data: Theme.of(context).copyWith(
    canvasColor: Color(0xff1d2733),
        //This will change the drawer background to blue.
     //other styles
     ),
      child: DrawerScreenDark(),),



      body: Padding(
        padding: const EdgeInsets.only(top: 10),
        child: ListView.separated(
          itemBuilder: (ctx, i) {
            return InkWell(
              onTap: (){
                Navigator.push(
                  context,
                  MaterialPageRoute(builder: (context) => ChatScreenDark()),
                );
              },
              child: ListTile(
               leading: CircleAvatar(
                radius: 28,
                backgroundImage: AssetImage(items[i].imgPath),
               ),
               title: items[i].status ?
               Text(items[i].name,style: TextStyle(fontWeight: FontWeight.bold,color: Colors.white),):
               Row(children: [
                 Text(items[i].name,style: TextStyle(fontWeight: FontWeight.bold,color: Colors.white),),
                 Icon(Icons.volume_mute,size: 18,color: Color(0xff7d8b98),)
```

```dart
          ],),
          subtitle:Text(items[i].message,style: TextStyle(color: Color(0xff7d8b98)),),


          trailing:items[i].messNum!=null ?

          Column(
            crossAxisAlignment: CrossAxisAlignment.end,
            children: [


              Text(items[i].time,style: TextStyle(color: Colors.grey),),

              SizedBox(height: 7,),


              Container(

                decoration: BoxDecoration(
                    color: items[i].status?Color(0xff64b4ef):Color(0xff3e5263),
                    borderRadius: BorderRadius.circular(30)
                ),
                child:Padding(
                  padding: const EdgeInsets.all(8.0),
                  child: Text('${items[i].messNum}',style: TextStyle(color: Colors.white,fontWeight:
FontWeight.bold),),),
              ),
              )

            ],
          ):

          Column(
            crossAxisAlignment: CrossAxisAlignment.end,
            children: [

              Text(items[i].time,style: TextStyle(color: Colors.grey),),

              SizedBox(height: 7,),

            ],)


          ),
        );
      },
      separatorBuilder: (ctx, i) {
        return Divider();
      },
      itemCount: items.length),
    ),
    floatingActionButton: FloatingActionButton(
        child: Icon(Icons.create,color: Colors.white,),
        backgroundColor: Color(0xFF65a9e0),
        onPressed: ()}),
  );
 }
}
```

Output :-