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### MPL Experiment No 5

Aim: To apply routing in Flutter Application

Theory: In Flutter, routing refers to the navigation system that allows users to move between different screens or pages within an app. Flutter uses a widget-based approach for navigation, where each screen is represented by a widget. The `Navigator` class manages the stack of routes and facilitates transitions between them.

Routes are typically defined using the `MaterialPageRoute` class, providing a seamless and platform-aware transition between screens. Developers can use the `Navigator` to push new routes onto the stack or pop existing routes off it. Named routes help in easily identifying and navigating to specific screens. Flutter also supports route arguments, allowing developers to pass data between screens.

Additionally, the `Navigator` provides a flexible set of transitions, such as slide, fade, or custom animations, enhancing the user experience during navigation. Overall, Flutter's routing system provides a structured and intuitive way to handle navigation within mobile and web applications.

## Code Snippets:

### Login.dart

```
login.dart / ...
// import 'package:day6_login_signup_page/dashboard.dart';
// import 'package:day6_login_signup_page/forgetpass.dart';
// import 'package:day6_login_signup_page/signup.dart';
import 'package:firebase_auth/firebase_auth.dart';
import 'package:kick_bazaar_app/main.dart';
import 'package:kick_bazaar_app/pages/sneaker_page.dart';

// import './dashboard.dart';
import './pages/sneaker_page.dart';
import './forgetpass.dart';
import './signup.dart';
import 'package:flutter/material.dart';

class MyLogin extends StatefulWidget {
  const MyLogin({Key? key}) : super(key: key);

  @override
  State<MyLogin> createState() => _MyLoginState();
}

class _MyLoginState extends State<MyLogin> {
  TextEditingController emailTextEditingController = TextEditingController();
  TextEditingController passwordTextEditingController = TextEditingController();
  bool showProgressBar = false;
  // final FirebaseFirestore _firestore = FirebaseFirestore.instance;

  //function for login with email and password
  void login() async {
    String email = emailTextEditingController.text.trim();
    String password = passwordTextEditingController.text.trim();

    if (email == "" || password == "") {
      print('please fill all details');
    } else {
      try {
        UserCredential userCredential = await FirebaseAuth.instance
          .signInWithEmailAndPassword(email: email, password: password);
      } catch (e) {
        // Handle login error
      }
    }
  }
}
```

```

class _MyLoginState extends State<MyLogin> {
  void login() async {
    UserCredential userCredential = await FirebaseAuth.instance
      .signInWithEmailAndPassword(email: email, password: password);

    if (userCredential != null) {
      Navigator.push(
        context,
        MaterialPageRoute(builder: (context) => NavigationPage()),
      );
    }
  } on FirebaseAuthException catch (ex) {
    print(ex.code.toString());
  }
}

@override
Widget build(BuildContext context) {
  return Container(
    decoration: const BoxDecoration(
      image: DecorationImage(
        image: AssetImage(
          "/Users/varunkhubani/Downloads/Kick-Bazaar-App/assets/login.png"), // AssetImage
        fit: BoxFit.cover), // DecorationImage // BoxDecoration
    child: Scaffold(
      backgroundColor: Colors.transparent,
      body: Stack(
        children: [
          Container(
            padding: const EdgeInsets.only(left: 35, top: 180),
            child: const Text(
              "Welcome Back!",
              style: TextStyle(
                color: Colors.white,
                fontSize: 33.0,
              ), // TextStyle

```

```

class _MyLoginState extends State<MyLogin> {
  Widget build(BuildContext context) {
    child: Scaffold(
      backgroundColor: Colors.transparent,
      body: Stack(
        children: [
          Container(
            padding: const EdgeInsets.only(left: 35, top: 180),
            child: const Text(
              "Welcome Back!",
              style: TextStyle(
                color: Colors.white,
                fontSize: 33.0,
              ), // TextStyle
            ), // Text
          ), // Container
          SingleChildScrollView(
            child: Container(
              padding: EdgeInsets.only(
                top: MediaQuery.of(context).size.height * 0.5,
                left: 30.0,
                right: 30.0), // EdgeInsets.only
              child: Column(
                children: [
                  TextField(
                    controller: emailTextEditingController,
                    decoration: InputDecoration(
                      fillColor: Colors.black12,
                      filled: true,
                      hintText: "Your Email",
                      hintStyle: const TextStyle(fontSize: 18.0),
                      border: OutlineInputBorder(
                        borderSide:
                          const BorderSide(width: 3, color: Colors.blue),
                        borderRadius: BorderRadius.circular(35),
                      ), // OutlineInputBorder
                    ), // InputDecoration
                  ),
                ],
              ),
            ),
          ),
        ],
      ),
    ),
  ),
}

```

```

Widget build(BuildContext context) {
  const SizedBox(
    height: 30.0,
  ), // SizedBox
  TextField(
    controller: passwordTextEditingController,
    obscureText: true,
    decoration: InputDecoration(
      fillColor: Colors.black12,
      filled: true,
      hintText: "Your Password",
      hintStyle: const TextStyle(fontSize: 18.0),
      border: OutlineInputBorder(
        borderSide:
          const BorderSide(width: 3, color: Colors.blue),
        borderRadius: BorderRadius.circular(35),
      ), // OutlineInputBorder
    ), // InputDecoration
  ), // TextField
  const SizedBox(
    height: 30.0,
  ), // SizedBox
  Row(
    mainAxisAlignment: MainAxisAlignment.end,
    children: [
      // const Text(
      //   "Sign In",
      //   style: TextStyle(
      //     fontSize: 25, fontWeight: FontWeight.w700),
      // ),
      CircleAvatar(
        backgroundColor: Colors.black45,
        radius: 25.0,
        child: IconButton(
          icon: const Icon(Icons.login),
          color: Colors.white,

```

```

Widget build(BuildContext context) {
  ), // Row
  const SizedBox(
    height: 5.0,
  ), // SizedBox
  Column(
    mainAxisAlignment: MainAxisAlignment.spaceBetween,
    children: [
      Row(
        mainAxisAlignment: MainAxisAlignment.center,
        children: [
          const Text("Not a Member?",
            style: TextStyle(
              fontWeight: FontWeight.bold,
              fontSize: 20.0)), // TextStyle // Text
          TextButton(
            onPressed: () {
              Navigator.push(
                context,
                MaterialPageRoute(
                  builder: (context) =>
                    const MySignup())); // MaterialPageRoute
            },
            child: const Text(
              "Sign Up",
              style: TextStyle(
                decoration: TextDecoration.underline,
                fontSize: 20.0), // TextStyle
            )), // Text // TextButton
        ],
      ), // Row
      TextButton(
        onPressed: () {
          Navigator.push(
            context,
            MaterialPageRoute(

```

```

Widget build(BuildContext context) {
  ), // Text // TextButton
  ],
  ), // Row
  TextButton(
    onPressed: () {
      Navigator.push(
        context,
        MaterialPageRoute(
          builder: (context) =>
            const ForgetPassword()); // MaterialPageRoute
    },
    child: const Text(
      "Forget Password?",
      style: TextStyle(
        color: Colors.black54,
        decoration: TextDecoration.underline,
        fontSize: 20.0), // TextStyle
    ), // Text // TextButton
  ],
  ) // Column
  ],
  ), // Column
  ), // Container
  ) // SingleChildScrollView
  ],
  ), // Stack
  ), // Scaffold
); // Container
}
}

```

Output:

Your Email

Your Password

→