LAPORAN PRAKTIKUM



NIM : 2003071

Nama: Hakim Asrori

Kelas: D3TI.2C

Mata Kuliah : Pemrograman Perangkat Bergerak

(TIU3403)

Praktikum ke / Judul : 7 / FRAMEWORK FLUTTER LANJUT

Tanggal Praktikum : 30 Mei 2022

Dosen Pengampu: Fachrul Pralienka Bani Muhamad, S.ST.,

M.Kom

PROGRAM STUDI D3 TEKNIK INFORMATIKA
JURUSAN TEKNIK INFORMATIKA
POLITEKNIK NEGERI INDRAMAYU
2022

Nama: Hakim Asrori

A. Tujuan Praktikum

Tujuan Umum

Mahasiswa dapat

Tujuan Khusus

Mahasiswa mampu:

- 1. ...
- 2. ...

B. Rangkuman Teori Singkat

1. Kode Program Main

```
import 'package:flutter/material.dart';
import 'package:flutter_application_1/pages/login_page.dart';
import 'package:flutter_application_1/pages/register_page.dart';
Run | Debug | Profile
void main() {
  runApp(MaterialApp(
    debugShowCheckedModeBanner: false,
    title: 'Login Register Page',
    initialRoute: "/",
    routes: {
      "/": (context) => LoginPage(),
      RegisterPage.routeName: (context) => RegisterPage(),
  )); // MaterialApp
```

2. Kode Program Login

```
import 'package:flutter/material.dart';
import 'package:flutter application 1/constants/color.dart';
import 'package:flutter application 1/pages/home page.dart';
import 'package:flutter_application_1/pages/register_page.dart';
class LoginPage extends StatelessWidget {
 const LoginPage({Key? key}) : super(key: key);
 @override
 Widget build(BuildContext context) {
    return Scaffold(
      body: Container(
        color: ColorPallete.primaryColor,
        padding: const EdgeInsets.all(20.0),
        child: ListView(
          children: <Widget>[
                   iconLogin(),
                   titleDescription(),
                   textField(),
                   _buildButton(context),
                 ], // <Widget>[]
               ), // Column
           ], // <Widget>[]
         ), // ListView
     ); // Scaffold
Widget _iconLogin() {
   return Image.asset(
     'assets/images/icon_login.png',
     width: 150.0,
     height: 150.0,
   );
```

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```
Widget _titleDescription() {
   children: const <Widget>[
     Padding(
      padding: EdgeInsets.only(top: 16),
        color: ■Colors.white,
     Padding(
      padding: EdgeInsets.only(top: 12),
     Text(
       "Lorem ipsum, dolor sit amet consectetur adipisicing elit. Libero nam facilis dolor debitis nesciunt corrupti ipsam,
       style: TextStyle(fontSize: 12, color: ■Colors.white),
Widget _textField() {
 return Column(
   children: <Widget>[
     const Padding(padding: EdgeInsets.only(top: 12)),
      TextFormField(
       decoration: const InputDecoration(
           border: UnderlineInputBorder()
           enabledBorder: UnderlineInputBorder(
               borderSide: BorderSide(
                   color: ColorPallete.underlineTextField, width: 1.5)), // BorderSide // UnderlineInputBorder
           focusedBorder: UnderlineInputBorder
               borderSide: BorderSide(color: Colors.white, width: 3)), // UnderlineInputBorder
           hintStyle: TextStyle(color: ■ColorPallete.hintColor)), // InputDecoration
        style: const TextStyle(color: ■Colors.white),
      const Padding(padding: EdgeInsets.only(top: 12)),
      TextFormField(
        decoration: const InputDecoration(
           border: UnderlineInputBorder(),
           enabledBorder: UnderlineInputBorder(
               borderSide: BorderSide(
                   color: □ColorPallete.underlineTextField, width: 1.5)), // BorderSide // UnderlineInputBorder
           focusedBorder: UnderlineInputBorder(
              borderSide: BorderSide(color: Colors.white, width: 3)), // UnderlineInputBorder
           hintText: "Password",
            hintStyle: TextStyle(color: ■ColorPallete.hintColor)), // InputDecoration
        style: const TextStyle(color: ☐Colors.white),
```

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```
Widget _buildButton(BuildContext context) {
       return Column(
        children: <Widget>[
          const Padding(padding: EdgeInsets.only(top: 16)),
          InkWell(
              Navigator.push(context, MaterialPageRoute(builder: (context) {
               return const HomePage();
              ScaffoldMessenger.of(context).showSnackBar(
                 const SnackBar(content: Text("Login Successfully!!!")));
            child: Container(
             padding: const EdgeInsets.symmetric(vertical: 8.0),
              width: double.infinity,
              decoration: BoxDecoration(
                 color: Colors.white, borderRadius: BorderRadius.circular(30)), // BoxDecoration
               "Login",
style: TextStyle(color: ■ColorPallete.primaryColor),
                textAlign: TextAlign.center,
              const Padding(padding: EdgeInsets.only(top: 16)),
              const Text(
                style: TextStyle(color: □Colors.white, fontSize: 12),
              const Padding(padding: EdgeInsets.only(top: 16)),
              GestureDetector(
                onTap: () {
                  Navigator.push(context, MaterialPageRoute(builder: (context) {
                     return const RegisterPage();
137
                  })); // MaterialPageRoute
                child: const Text(
                  "Register",
                  style: TextStyle(color: □Colors.white),
            ], // <Widget>[]
         ); // Column
```

Hasil Kode Program Login



1.08 AM 😥 🕲 Login

3. Kode Program Register

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```
import 'package:flutter/material.dart';
import 'package:flutter application 1/constants/color.dart';
import 'package:flutter_application_1/pages/login_page.dart';
class RegisterPage extends StatelessWidget {
  static const routeName = "/registerPage";
  const RegisterPage({Key? key}) : super(key: key);
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      body: Container(
          color: ColorPallete.primaryColor,
          padding: const EdgeInsets.all(20.0),
          child: ListView(
            children: <Widget>[
              Center(
                child: Column(
                  children: <Widget>[
                    _iconRegister(),
                    _titleDescription(),
                    textField(),
                    _buildButton(context),
                  ], // <Widget>[]
            ], // <Widget>[]
    ); // Scaffold
Widget _iconRegister() {
  return Image.asset(
    'assets/images/icon_register.png',
    width: 150.0,
    height: 150.0,
  );
```

```
return Column(
       children: const <Widget>[
        Padding(
          padding: EdgeInsets.only(top: 16),
           color: □Colors.white,
         Padding(
          padding: EdgeInsets.only(top: 12),
          "Lorem ipsum, dolor sit amet consectetur adipisicing elit. Libero nam facilis dolor debitis nesciunt corrupti ipsam,
          aliquam delectus possimus hic."
          style: TextStyle(fontSize: 12, color: □Colors.white),
Widget _textField() {
 return Column(
   children: <Widget>[
     const Padding(padding: EdgeInsets.only(top: 12)),
     TextFormField(
       decoration: const InputDecoration(
           border: UnderlineInputBorder();
           enabledBorder: UnderlineInputBorder(
                  color: ■ColorPallete.underlineTextField, width: 1.5)), // BorderSide // UnderlineInputBorder
           focusedBorder: UnderlineInputBorder(
              borderSide: BorderSide(color: Colors.white, width: 3)), // UnderlineInputBorder
           hintStyle: TextStyle(color: ■ColorPallete.hintColor)), // InputDecoration
       style: const TextStyle(color: ■Colors.white),
     const Padding(padding: EdgeInsets.only(top: 12)),
          TextFormField(
           decoration: const InputDecoration(
              border: UnderlineInputBorder(),
               enabledBorder: UnderlineInputBorder(
                  borderSide: BorderSide(
                     color: ColorPallete.underlineTextField, width: 1.5)), // BorderSide // UnderlineInputBorder
               focusedBorder: UnderlineInputBorder
                  borderSide: BorderSide(color: Colors.white, width: 3)), // UnderlineInputBorder
               style: const TextStyle(color: ■Colors.white),
```

```
const Padding(padding: EdgeInsets.only(top: 12)),
TextFormField(
     border: UnderlineInputBorder(),
     enabledBorder: UnderlineInputBorder(
             color: ■ColorPallete.underlineTextField, width: 1.5)), // BorderSide // UnderlineInputBorder
     focusedBorder: UnderlineInputBorder(
        borderSide: BorderSide(color: Colors.white, width: 3)), // UnderlineInputBorder
     hintText: "Confirm Password",
hintStyle: TextStyle(color: ■ColorPallete.hintColor)), // InputDecoration
 style: const TextStyle(color: ■Colors.white),
```

```
Widget _buildButton(BuildContext context) {
 return Column(
   children: <Widget>[
     const Padding(padding: EdgeInsets.only(top: 16)),
     InkWell(
         ScaffoldMessenger.of(context).showSnackBar(
             const SnackBar(content: Text("Register Successfully!!!")));
         Navigator.pop(context);
       child: Container(
         padding: const EdgeInsets.symmetric(vertical: 8.0),
         width: double.infinity,
         decoration: BoxDecoration(
            color: ■Colors.white, borderRadius: BorderRadius.circular(30)), // BoxDecoration
            "Register",
           style: TextStyle(color: ☐ColorPallete.primaryColor),
            textAlign: TextAlign.center,
```

Nama : Hakim Asrori

```
const Padding(padding: EdgeInsets.only(top: 16)),
 const Text(
   style: TextStyle(color: □Colors.white, fontSize: 12),
 const Padding(padding: EdgeInsets.only(top: 16)),
 GestureDetector(
   onTap: () {
     Navigator.push(context, MaterialPageRoute(builder: (context) {
       return const LoginPage();
     })); // MaterialPageRoute
   child: const Text(
     "Login",
     style: TextStyle(color: □Colors.white),
], // <Widget>[]
```

Hasil Kode Program Register



4. Kode Program Home

```
class HomePage extends StatefulWidget {
 const HomePage({Key? key}) : super(key: key);
 State<HomePage> createState() => _HomePageState();
class _HomePageState extends State<HomePage> {
 Widget build(BuildContext context) {
   var size = MediaQuery.of(context).size;
   var cardTextStyle = const TextStyle(
       color: □Color.fromRGBO(63, 63, 63, 1)); // TextStyle
       children: <Widget>[
           height: size.height * 0.36,
           decoration: const BoxDecoration(
               image: DecorationImage(
                   alignment: Alignment.center,
                    image: AssetImage('assets/images/top_header.png'))), // DecorationImage // BoxDecoration
          SafeArea(
            child: Padding(
              padding: const EdgeInsets.all(16),
              child: Column(
                children: <Widget>[
                    mainAxisAlignment: MainAxisAlignment.spaceBetween,
                    children: [
                        margin: const EdgeInsets.only(bottom: 20),
                          crossAxisAlignment: CrossAxisAlignment.start,
                          children: <Widget>[
                            const CircleAvatar(
                              backgroundImage: NetworkImage(
                            ), // CircleAvatar
const SizedBox(
```

```
Column(
        mainAxisAlignment: MainAxisAlignment.center,
        crossAxisAlignment: CrossAxisAlignment.start,
        children: const <Widget>[
          Text(
             'Hakim Asrori',
            style: TextStyle(
                fontFamily: 'Montserrat Medium',
                color: □Colors.white,
                fontSize: 20), // TextStyle
          Text(
            '2003071',
            style: TextStyle(
              fontSize: 14,
              color: Colors.white,
              fontFamily: "Montserrat Regular",
         ], // <Widget>[]
    ], // <Widget>[]
    Container(
      margin: const EdgeInsets.only(bottom: 20),
      child: InkWell(
        onTap: () {
           Navigator.pop(context);
        },
        child: const Icon(
           Icons.logout,
          color: Colors.white,
         ), // Icon
      ), // InkWell
), // Row
Expanded(
 child: GridView.count(
    crossAxisSpacing: 10
    mainAxisSpacing: 10,
    primary: false,
    crossAxisCount: 2,
    children: <Widget>[
```

```
InkWell(
 onTap: () => print("Data Diri"),
 child: Card(
    shape: RoundedRectangleBorder(
     borderRadius: BorderRadius.circular(8),
    ), // RoundedRectangleBorder
    elevation: 4,
    child: Column(
     mainAxisAlignment: MainAxisAlignment.center,
     children: <Widget>[
        Image.asset(
          'assets/images/widget/student.png',
          height: 100,
        ), // Image.asset
        Text(
          'Data Diri',
          style: cardTextStyle,
      ], // <Widget>[]
InkWell(
  onTap: () => print("Jadwal Kursus"),
  child: Card(
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(8),
    ), // RoundedRectangleBorder
    elevation: 4,
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: <Widget>[
         Image.asset(
           'assets/images/widget/calendar.png',
          height: 100,
        ), // Image.asset
        Text(
           'Jadwal Kursus',
          style: cardTextStyle,
      ], // <Widget>[]
```

```
InkWell(
  onTap: () => print("Hasil Belajar"),
  child: Card(
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(8),
    ), // RoundedRectangleBorder
    elevation: 4,
    child: Column(
      mainAxisAlignment: MainAxisAlignment.center,
      children: <Widget>[
        Image.asset(
          'assets/images/widget/prize.png',
          height: 100,
        ), // Image.asset
        Text(
          'Hasil Belajar',
          style: cardTextStyle,
      ], // <Widget>[]
InkWell(
 onTap: () => print("Rekap Absensi"),
 child: Card(
    shape: RoundedRectangleBorder(
      borderRadius: BorderRadius.circular(8),
    ), // RoundedRectangleBorder
   elevation: 4,
   child: Column(
     mainAxisAlignment: MainAxisAlignment.center,
      children: <Widget>[
        Image.asset(
          'assets/images/widget/recap.png',
         height: 100,
        ), // Image.asset
          'Rekap Absensi',
          style: cardTextStyle,
      ], // <Widget>[]
  // InkWell
```

Nama: Hakim Asrori InkWell(onTap: () => print("Kursus Lainnya"), child: Card(shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(8),), // RoundedRectangleBorder elevation: 4, child: Column(mainAxisAlignment: MainAxisAlignment.center, children: <Widget>[Image.asset('assets/images/widget/books.png', height: 100, Text('Kursus Lainnya', style: cardTextStyle,], // <Widget>[] InkWell(onTap: () => print("Alur Kursus"), child: Card(shape: RoundedRectangleBorder(borderRadius: BorderRadius.circular(8),), // RoundedRectangleBorder elevation: 4, child: Column(mainAxisAlignment: MainAxisAlignment.center, children: <Widget>[

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Hasil Kode Program Home

Image.asset(

], // <Widget>[]

Text(

height: 100,

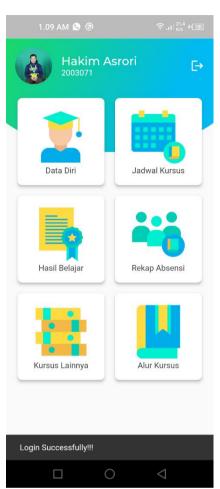
'Alur Kursus',

style: cardTextStyle,

'assets/images/widget/library.png',



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5. Kode Program Menu Logout

```
Container(
 margin: const EdgeInsets.only(bottom: 20),
 child: InkWell(
   onTap: () {
     Navigator.pop(context);
   child: const Icon(
     Icons.logout,
     color: □Colors.white,
    ), // Icon
```



Nama : Hakim Asrori

C. Langkah dan Hasil Pelaksanaan Praktikum



Nama : Hakim Asrori

D. Langkah dan Hasil Latihan



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E. Hasil dan Penjelasan Tugas



Nama : Hakim Asrori

F. Kesimpulan

G. Referensi

- Alberto Miola. "Flutter Complete Reference Create Beautiful, Fast and Native Apps for Any Device". Independently Published. 2020.
- Simone Alessandria, Brian Kayfirz. "Flutter Cookbook: Over 100 proven techniques and solutions for app development with Flutter 2.2 and Dart". Packt Publishing. Birmingham - Mumbai. 2021.
- Dieter Meiller. "Modern App Development with Dart and Flutter 2: A Comprehensive Introduction to Flutter". Walter de Gruyter GmbH. Berlin - Boston. 2021.
- Priyanka Tyagi. "Pragmatic Flutter: Building Cross-Platform Mobile Apps for Android, iOS, Web & Desktop". CRC Press Taylor & Francis Group, LLC. London - New York. 2022.