

Ondokuz Mayıs Üniversitesi Mobil Programlama Ödev 7

Kodlar

```
// main.dart

import 'package:flutter/material.dart';
import 'package:form_usage_animation/screens/login_screen.dart';

void main() {
  runApp(const App());
}

class App extends StatelessWidget {
  const App({super.key});

  @override
  Widget build(BuildContext context) {
    return const MaterialApp(
      home: LoginScreen(),
      debugShowCheckedModeBanner: false,
    );
  }
}

// screens/login_screen.dart

import 'package:flutter/material.dart';
import 'package:form_usage_animation/actions/actions.dart';
import 'package:form_usage_animation/screens/second_screen.dart';
import 'package:form_usage_animation/widgets/actions_row.dart';
import 'package:form_usage_animation/widgets/bottom_row.dart';
import 'package:form_usage_animation/widgets/form.dart';
import 'package:form_usage_animation/widgets/header.dart';

class LoginScreen extends StatefulWidget {
  const LoginScreen({super.key});

  @override
  State<LoginScreen> createState() => _LoginScreen();
}

class _LoginScreen extends State<LoginScreen> {
  final _formKey = GlobalKey<FormState>();
  final _emailController = TextEditingController();
  final _passwordController = TextEditingController();

  @override
  Widget build(BuildContext context) {
    Size size = MediaQuery.of(context).size;
```

```

    void navigate() {
      navigateOtherScreen(
        context: context,
        otherScreen: SecondScreen(
          email: _emailController.text,
          password: _passwordController.text,
        ),
      );
    }

    return Scaffold(
      body: Center(
        child: ListView(
          children: [
            const HeaderView(),
            Container(
              height: size.height / 2,
              margin: const EdgeInsets.symmetric(horizontal: 32),
              child: Column(
                mainAxisAlignment: MainAxisAlignment.spaceEvenly,
                children: [
                  FormView(
                    formKey: _formKey,
                    textFieldsControllers: [
                      _emailController,
                      _passwordController,
                    ],
                  ),
                  ActionsRowView(
                    formKey: _formKey,
                    navigate: navigate,
                  ),
                  const BottomRowView(),
                ],
              ),
            ),
          ],
        ),
      ),
    );
  }
}

// screens/seconds_screen.dart

import 'package:flutter/material.dart';

class SecondScreen extends StatelessWidget {
  const SecondScreen({super.key, required this.email, required
    this.password});

  final String email;
  final String password;

```

```
@override
Widget build(BuildContext context) {
  var textStyle = const TextStyle(
    fontSize: 24,
  );

  return Scaffold(
    appBar: AppBar(
      title: const Text("Login Data"),
    ),
    body: Center(
      child: DefaultTextStyle.merge(
        style: textStyle,
        child: Column(
          mainAxisAlignment: MainAxisAlignment.center,
          crossAxisAlignment: CrossAxisAlignment.center,
          children: [
            Text("Email: $email"),
            Text("Password: $password"),
          ],
        ),
      ),
    ),
  );
}

// actions/actions.dart

import 'package:flutter/material.dart';

void navigateOtherScreen(
  {required BuildContext context, required Widget otherScreen}) {
  Navigator.push(
    context,
    PageRouteBuilder(
      pageBuilder: (_, __, ___) => otherScreen,
      transitionsBuilder: (_, animation, __, widget) {
        const begin = Offset(0.0, 1.0);
        const end = Offset.zero;
        const curve = Curves.ease;

        var tween =
          Tween(begin: begin, end: end).chain(CurveTween(curve:
curve));

        return SlideTransition(
          position: animation.drive(tween),
          child: otherScreen,
        );
      },
    ),
  );
}
```

```
// helpers/enums.dart

enum TextFieldType { email, password }

// widgets/actions_row.dart

import 'package:flutter/material.dart';
import 'package:form_usage_animation/widgets/button.dart';

class ActionsRowView extends StatefulWidget {
  const ActionsRowView({
    super.key,
    required this.formKey,
    required this.navigate,
  });

  final GlobalKey<FormState> formKey;
  final Function navigate;

  @override
  State<ActionsRowView> createState() => _ActionsRowView();
}

class _ActionsRowView extends State<ActionsRowView> {
  var text = const Text(
    "Sign in",
    style: TextStyle(
      fontSize: 24,
      fontWeight: FontWeight.bold,
    ),
  );

  @override
  Widget build(BuildContext context) {
    return Row(
      mainAxisAlignment: MainAxisAlignment.spaceBetween,
      children: [
        text,
        ButtonView(
          formKey: widget.formKey,
          navigate: widget.navigate,
        ),
      ],
    );
  }
}

// widgets/bottom_row.dart

import 'dart:ui';

import 'package:flutter/material.dart';

class BottomRowView extends StatefulWidget {
```

```

    const BottomRowView({super.key});

    @override
    State<BottomRowView> createState() => _BottomRowView();
  }

  class _BottomRowView extends State<BottomRowView> {
    var textStyle = const TextStyle(
      fontWeight: FontWeight.w400,
      decoration: TextDecoration.underline,
    );

    var text1 = const Text("Sign up");
    var text2 = const Text("Forgot Passwords");

    @override
    Widget build(BuildContext context) {
      return DefaultTextStyle.merge(
        style: textStyle,
        child: Row(
          mainAxisAlignment: MainAxisAlignment.spaceBetween,
          children: [
            text1,
            text2,
          ],
        ),
      );
    }
  }

  // widgets/button.dart

  import 'package:flutter/material.dart';
  import 'package:form_usage_animation/actions/actions.dart';
  import 'package:form_usage_animation/screens/second_screen.dart';

  class ButtonView extends StatefulWidget {
    const ButtonView({
      super.key,
      required this.formKey,
      required this.navigate,
    });

    final GlobalKey<FormState> formKey;
    final Function navigate;

    @override
    State<ButtonView> createState() => _ButtonView();
  }

  class _ButtonView extends State<ButtonView> {
    @override
    Widget build(BuildContext context) {
      void actionEvent() {

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```
        if (widget.formKey.currentState!.validate()) {
          widget.navigate();
        }
      }

    return SizedBox(
      height: 75,
      width: 75,
      child: FloatingActionButton(
        onPressed: actionEvent,
        backgroundColor: const Color(0xFF8E4F80),
        child: const Icon(Icons.east),
      ),
    );
  }
}

// widgets/form.dart

import 'package:flutter/material.dart';
import 'package:form_usage_animation/helpers/enums.dart';
import 'package:form_usage_animation/widgets/textformfield.dart';

class FormView extends StatefulWidget {
  const FormView({
    super.key,
    required this.formKey,
    required this.textFieldsControllers,
  });

  final GlobalKey<FormState> formKey;
  final List<TextEditingController> textFieldsControllers;

  @override
  State<FormView> createState() => _FormView();
}

class _FormView extends State<FormView> {
  String? emailValidator(String? value) {
    if (value == null || value.isEmpty) {
      return 'Please type your email!';
    } else if (!value.contains('@')) {
      return 'Please type in correct format!';
    }

    return null;
  }

  String? passwordValidator(String? value) {
    if (value == null || value.isEmpty) {
      return 'Please type your password!';
    } else if (value.length < 4 || value.length > 8) {
      return 'Your password length should be between 4 and 8';
    }
  }
}
```

```
        return null;
    }

    @override
    Widget build(BuildContext context) {
        return Form(
            key: widget.formKey,
            child: Column(
                children: [
                    TextFormField(
                        tft: TextFieldType.email,
                        validator: emailValidator,
                        controller: widget.textFieldsControllers[0],
                    ),
                    TextFormField(
                        tft: TextFieldType.password,
                        validator: passwordValidator,
                        controller: widget.textFieldsControllers[1],
                    ),
                ],
            ),
        );
    }
}

// widgets/header.dart

import 'package:flutter/material.dart';

class HeaderView extends StatelessWidget {
    const HeaderView({super.key});

    @override
    Widget build(BuildContext context) {
        Size size = MediaQuery.of(context).size;

        return Container(
            decoration: const BoxDecoration(
                image: DecorationImage(
                    image: AssetImage("assets/images/header.png"),
                    fit: BoxFit.fill,
                ),
            ),
            height: size.height / 2,
            width: size.width,
            child: Padding(
                padding: const EdgeInsets.only(left: 16, top: 16),
                child: Column(
                    crossAxisAlignment: CrossAxisAlignment.start,
                    children: [
                        const Icon(
                            Icons.chevron_left_rounded,
                            color: Colors.white,
```

```

        size: 32,
      ),
      Expanded(
        child: Container(
          padding: const EdgeInsets.only(left: 16),
          alignment: Alignment.centerLeft,
          child: const Text(
            "Welcome\nBack",
            style: TextStyle(
              fontWeight: FontWeight.w900,
              fontSize: 32,
              color: Colors.white,
            ),
          ),
        ),
      ),
    ],
  ),
);
}

// widgets/textformfield.dart

import 'package:flutter/material.dart';
import 'package:form_usage_animation/helpers/enums.dart';

class TextFormFieldView extends StatefulWidget {
  TextFormFieldView({
    super.key,
    required this.tft,
    required this.validator,
    required this.controller,
  });

  final TextInputType tft;
  final String? Function(String?)? validator;
  final TextEditingController controller;

  @override
  State<TextFormFieldView> createState() => _TextFormFieldView();
}

class _TextFormFieldView extends State<TextFormFieldView> {
  @override
  Widget build(BuildContext context) {
    bool isTextFieldPassword = widget.tft == TextInputType.password;

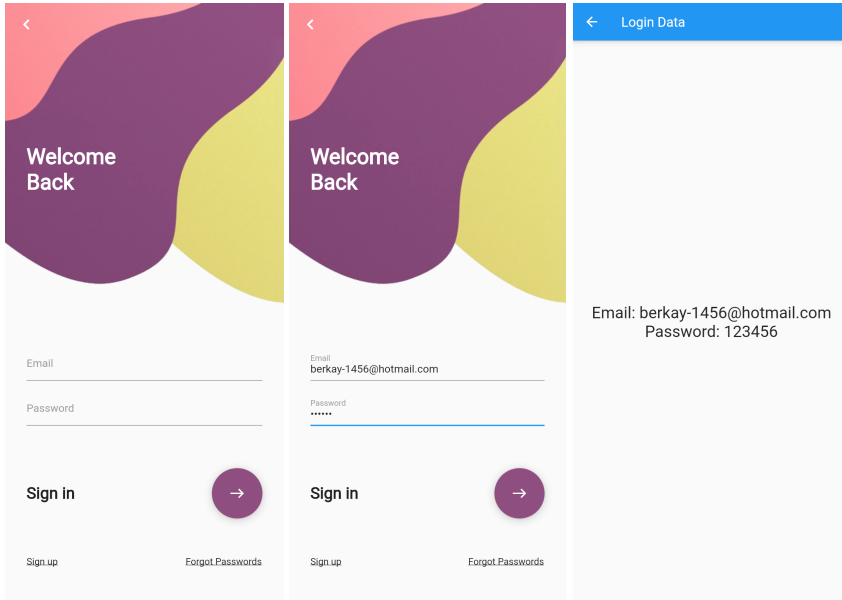
    return Container(
      margin: const EdgeInsets.symmetric(vertical: 8),
      child: TextFormField(
        controller: widget.controller,
        obscureText: isTextFieldPassword,

```



```
decoration: InputDecoration(  
  label: Text(isTextFieldPassword ? "Password" : "Email"),  
  labelStyle: const TextStyle(color: Colors.grey, fontSize: 16),  
  border: const UnderlineInputBorder(  
    borderSide: BorderSide(  
      color: Colors.grey,  
    ),  
  ),  
),  
),  
),  
validator: widget.validator,  
),  
);  
}  
}
```

Ekran Görüntüleri



Proje Github Link

https://github.com/bgebes/universityHomeworks-flutter/tree/master/form_usage_animation

Öğrenci

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