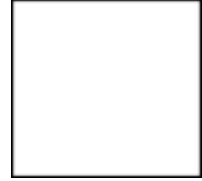


LATIHAN PRAKTIKUM PENGEMBANGAN APLIKASI MOBILE

BAB : UI STATE
NAMA : DIONISIUS SURYA JAYA
NIM : 225150207111104
ASISTEN : 1. THEODORIK RADITYA KUSUMA
2. RHEA AULIA RIZQIKA FITRIANI
TANGGAL : 11 SEPTEMBER 2024



SOAL 1

A. Soal

Implementasikan state pada texfield dalam tugas "Microsoft One Note" pada pertemuan 2.

B. Source Code

```
package com.example.pertemuan3_statelain

import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.Spacer
import androidx.compose.foundation.layout.fillMaxHeight
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.size
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.IconButton
import androidx.compose.material3.OutlinedTextField
import androidx.compose.material3.Surface
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
import androidx.compose.material3.TextFieldDefaults
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.runtime.saveable.rememberSaveable
import androidx.compose.runtime.setValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.input.pointer.HistoricalChange
import androidx.compose.ui.res.painterResource
```

```

import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontWeight
import
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp

@Preview(showBackground = true)
@Composable
fun StateScreen() {
    var email by remember { mutableStateOf("") }
    var password by remember { mutableStateOf("") }

    Box(
        modifier = Modifier
            .fillMaxSize()
            .background(color = Color.White)
    ) {

        Surface(
            modifier = Modifier
                .fillMaxWidth()
                .fillMaxHeight(0.7f)
                .align(Alignment.BottomCenter),
            color = Color(0xFF7218A5),
            shape = RoundedCornerShape(topStart = 30.dp,
topEnd = 30.dp)
        ) {
            Column(
                modifier = Modifier
                    .fillMaxSize()
                    .padding(horizontal = 16.dp, vertical
= 30.dp),
                horizontalAlignment =
Alignment.CenterHorizontally
            ) {

                Spacer(modifier =
Modifier.height(100.dp))

                Text(
                    text = "Log In",
                    fontSize = 22.sp,
                    color = Color.White,
                    fontWeight = FontWeight.Bold
                )

                Spacer(modifier = Modifier.height(24.dp))

                val textFieldHeight = 76.dp

                Column(

```

```

        modifier = Modifier
            .fillMaxWidth()
            .padding(horizontal = 16.dp)
    ) {
        // Email TextField
        TextField(
            value = email,
            onChange = { email = it },
            label = { Text("Email") },
            placeholder = { Text("Masukkan
email") },
            colors =
TextFieldDefaults.colors(
                focusedIndicatorColor =
Color.Transparent,
                unfocusedIndicatorColor =
Color.Transparent
            ),
            modifier = Modifier
                .fillMaxWidth()
                .height(textFieldHeight)
                .padding(vertical = 8.dp),
            shape = RoundedCornerShape(8.dp)
        )

        Spacer(modifier =
Modifier.height(16.dp))

        // Password TextField
        TextField(
            value = password,
            onChange = { password = it
},
            label = { Text("Password") },
            placeholder = { Text("Masukkan
password") },
            visualTransformation =
PasswordVisualTransformation(),
            colors =
TextFieldDefaults.colors(
                focusedIndicatorColor =
Color.Transparent,
                unfocusedIndicatorColor =
Color.Transparent
            ),
            modifier = Modifier
                .fillMaxWidth()
                .height(textFieldHeight)
                .padding(vertical = 8.dp),
            shape = RoundedCornerShape(8.dp)
        )

        Spacer(modifier =
Modifier.height(32.dp))

```

```

        // Login Button
        Button(
            modifier = Modifier
                .fillMaxWidth(),
            onClick = { /*TODO*/ },
            colors =
                ButtonDefaults.buttonColors(Color.White),
            shape = RoundedCornerShape(50.dp)
        ) {
            Text(
                modifier =
                    Modifier.padding(8.dp),
                text = "LOGIN",
                fontSize = 18.sp,
                color = Color(0xFF7218A5)
            )
        }

        Spacer(modifier =
            Modifier.height(32.dp))

        Text(
            textAlign = TextAlign.Center,
            text = "Forgot Password?",
            fontSize = 18.sp,
            color = Color.White,
            fontWeight = FontWeight.Bold
        )

        Spacer(modifier = Modifier.height(24.dp))

        Text(
            textAlign = TextAlign.Center,
            text = "or login with",
            fontSize = 18.sp,
            color = Color.White,
            fontWeight = FontWeight.Normal
        )

        Spacer(modifier = Modifier.height(24.dp))

        Row(
            modifier = Modifier
                .fillMaxWidth()
                .padding(9.dp),
            horizontalArrangement =
                Arrangement.SpaceEvenly
        ) {
            // Google Button
            IconButton(
                onClick = { /*TODO*/ },
                modifier = Modifier
                    .size(48.dp)
                    .padding(horizontal = 8.dp)
            )
        }
    }
}

```

```

        ) {
            Image(
                painter = painterResource(id
= R.drawable.google_logo),
                contentDescription = "Google"
            )
        }

        // Facebook Button
        IconButton(
            onClick = { /*TODO*/ },
            modifier = Modifier
                .size(48.dp)
                .padding(horizontal = 8.dp)
        ) {
            Image(
                painter = painterResource(id
= R.drawable.facebook_logo),
                contentDescription =
"Facebook"
            )
        }

        // X Button
        IconButton(
            onClick = { /*TODO*/ },
            modifier = Modifier
                .size(48.dp)
                .padding(horizontal = 8.dp)
        ) {
            Image(
                painter = painterResource(id
= R.drawable.twitter_logo),
                contentDescription = "X"
            )
        }
    }

    Surface(
        modifier = Modifier
            .fillMaxWidth()
            .fillMaxHeight(0.4f)
            .align(Alignment.TopCenter),
        shape = RoundedCornerShape(bottomStart =
70.dp, bottomEnd = 70.dp),
        color = Color(0xFFFFFFFF)
    ) {
        Box(
            contentAlignment = Alignment.Center
        ) {
            Column(
                horizontalAlignment =
Alignment.CenterHorizontally,

```

```

        modifier = Modifier.padding(10.dp)
    ) {
        Image(
            modifier = Modifier.size(150.dp),
            painter = painterResource(id =
R.drawable.onenote),
            contentDescription = "picture"
        )

        Spacer(modifier =
Modifier.height(20.dp))

        Text(
            modifier =
Modifier.padding(horizontal = 50.dp),
            text = "Microsoft OneNote",
            fontSize = 20.sp,
            color = Color(0xFF7218A5),
            fontWeight = FontWeight.Bold,
            textAlign = TextAlign.Center
        )

        Spacer(modifier =
Modifier.height(20.dp))

        Text(
            modifier =
Modifier.padding(horizontal = 50.dp),
            text = "Log in to your account to
access the app",
            fontSize = 15.sp,
            color = Color(0xFF7218A5),
            fontWeight = FontWeight.SemiBold,
            textAlign = TextAlign.Center
        )
    }
}
}
}

```

```
package com.example.pertemuan3_statelain

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.padding
import androidx.compose.material3.Scaffold
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.tooling.preview.Preview
import
```

```
com.example.pertemuan3_statelain.ui.theme.Pertemuan3_statelainTheme
```

```
class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContent {
            StateScreen()
        }
    }
}
```

C. Screenshot

