

Android App Development

ASSIGNMENT - 1

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Creating a Login Page

Github Link:

<https://github.com/amxlns/Login-Page.git>

MainActivity.kt:

```
package com.example.assignment1
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.*
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Spacer
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.material3.Button
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.runtime.setValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.text.input.TextFieldValue
import androidx.compose.ui.unit.dp

class MainActivity : ComponentActivity()
{
    override fun onCreate(savedInstanceState: Bundle?)
```

```

{
    super.onCreate(savedInstanceState)
    setContentView()
    {
        Column(modifier = Modifier.fillMaxSize(),
            verticalArrangement = Arrangement.Center,
            horizontalAlignment = Alignment.CenterHorizontally)
        {
            LoginScreen()
        }
    }
}

@Composable
fun LoginScreen()
{
    Column(modifier = Modifier
        .fillMaxSize()
        .padding(20.dp),
        verticalArrangement = Arrangement.Center,
        horizontalAlignment = Alignment.CenterHorizontally)
    {
        Text(text="Login", style=MaterialTheme.typography.displayMedium)
        Spacer(modifier = Modifier.height(20.dp))

        simpleTextField1()
        Spacer(modifier = Modifier.height(6.dp))

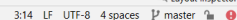
        simpleTextField2()
        Spacer(modifier = Modifier.height(20.dp))
        simpleButton()
    }
}

@Composable
fun simpleButton()
{
    Button(modifier = Modifier.padding(16.dp), onClick={})
    {
        Text(text="Submit")
    }
}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun simpleTextField1()
{

```

}



assignment1 - MainActivity.kt [assignment1.app.main]

assignment1 > app > src > main > java > com > example > assignment1 > MainActivity.kt

Running Devices: Pixel 6 Pro API 33

```
65         simpleTextField2()
66         Spacer(modifier = Modifier.height(28.dp))
67         simpleButton()
68     }
69 }
70
71
72 @Composable
73 fun simpleButton()
74 {
75     Button(modifier = Modifier.padding(16.dp), onClick = {})
76     { this: RowScope
77         Text(text = "Submit")
78     }
79 }
80
81 @OptIn(ExperimentalMaterial3Api::class)
82 @Composable
83 fun simpleTextField1()
84 {
85     var user by remember { mutableStateOf<TextFieldValue>() }
86     TextField(value = user, onValueChange = { it -> user = it }, label = { Text(text = "Username") })
87 }
88
89 @OptIn(ExperimentalMaterial3Api::class)
90 @Composable
91 fun simpleTextField2()
92 {
93     var pass by remember { mutableStateOf<TextFieldValue>() }
94     TextField(value = pass, onValueChange = { it -> pass = it }, label = { Text(text = "Password") })
95 }
```

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Layout Inspector

Device Manager

Device File Explorer

Running Devices

Pixel 6 Pro API 33

12:34

Login

Username

Password

Submit