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Week 1: Building Instagram Login UI

Code:

```
package com.example.week1_20bec1307

import android.content.Context
import android.content.Intent
import android.os.Bundle
import android.widget.Toast
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.size
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.Icon
import androidx.compose.material3.IconButton
import androidx.compose.material3.MaterialTheme
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.MutableState
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.graphics.Color
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.text.input.TextFieldValue
import androidx.compose.ui.text.input.VisualTransformation
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import com.example.week1_20bec1307.ui.theme.Week1_20BEC1307Theme

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

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        super.onCreate(savedInstanceState)
        setContent {
            Week1_20BEC1307Theme {
                // A surface container using the 'background' color from
the theme
                Column(
                    modifier=Modifier.fillMaxSize().background(Color.White),
                    horizontalAlignment = Alignment.CenterHorizontally
                ) {
                    ImageWithBackgroundColor()
                    OutLineTextFieldSample()
                    Password()

                    Button1()
                }
            }
        }
    }
}

@Composable
fun ImageWithBackgroundColor() {
    Image(
        painter = painterResource(id = R.drawable.instagram),
        contentDescription = "",
        modifier = Modifier
            .size(400.dp)
            .background(Color.White)
            // .clip(RoundedCornerShape(10.dp))
            .padding(100.dp)
    )
}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun Password() {
    var password by remember { mutableStateOf("") }

    // Creating a variable to store toggle state
    var passwordVisible by remember { mutableStateOf(false) }
    OutlinedTextField(
        value = password,
        onValueChange = { password = it },
        label = { Text("Password") },
        singleLine = true,
        placeholder = { Text("Password") },
        visualTransformation = if (passwordVisible)
VisualTransformation.None else PasswordVisualTransformation(),
        keyboardOptions = KeyboardOptions(keyboardType =
KeyboardType.Password),
        trailingIcon = {
            val image = if (passwordVisible)
                painterResource(id = R.drawable.ic_on)
            else painterResource(id = R.drawable.ic_off)

            // Localized description for accessibility services
            val description = if (passwordVisible) "Hide password" else
"Show password"

            // Toggle button to hide or display password
            IconButton(onClick = {passwordVisible = !passwordVisible}){
                Icon(image , contentDescription = "Visibility icon")
            }
        }
    )
}

```

```

        }
//        colors = TextFieldDefaults.textFieldColors(backgroundColor =
Color.Cyan)
    }
)
}
private fun mToast(context: Context){
    Toast.makeText(context, "Welcome to Instagram !",
Toast.LENGTH_LONG).show()
}
@Composable
fun Button1() {
    val mContext = LocalContext.current

    Button(onClick = { mToast(mContext) },
        colors = ButtonDefaults.outlinedButtonColors(containerColor =
Color.Red, contentColor = Color.White),
        elevation = ButtonDefaults.elevatedButtonElevation(
            defaultElevation = 10.dp,
            pressedElevation = 15.dp,
            disabledElevation = 0.dp
        )) {
        Text(text = "Sign In")
    }
}
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun OutLineTextFieldSample() {
    var text by remember { mutableStateOf(TextFieldValue("")) }
    OutlinedTextField(
        value = text,
        label = { Text(text = "Enter Your Email") },
        keyboardOptions = KeyboardOptions(keyboardType =
KeyboardType.Email),
        onValueChange = {
            text = it
        }
    )
}
@Composable
fun Greeting(name: String, modifier: Modifier = Modifier) {
    Text(
        text = "Hello $name!",
        modifier = modifier
    )
}

@Preview(showBackground = true)
@Composable
fun GreetingPreview() {
    Week1_20BEC1307Theme {
        Greeting("Android")
    }
}

```

Output:

