

Smartbridge Externship

Android Development with Kotlin (Week 1)

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Code:

```
package com.example.vit_20bce2011week1

import android.content.Context
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.layout.Arrangement
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Info
import androidx.compose.material.icons.filled.Person
import androidx.compose.material3.Button
import androidx.compose.material3.Card
import androidx.compose.material3.CardDefaults
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.Icon
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.OutlinedButton
import androidx.compose.material3.OutlinedTextField
import androidx.compose.material3.Surface
import androidx.compose.material3.Text
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.graphics.Color
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import com.example.vit_20bce2011week1.ui.theme.VIT_20BCE2011Week1Theme

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            VIT_20BCE2011Week1Theme() {
                // A surface container using the 'background' color from the theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colorScheme.background
                ) {
                    // Your content here
                }
            }
        }
    }
}
```

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        ) {
            Login_Page(applicationContext)
        }
    }
}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun Login_Page(applicationContext: Context) {
    Card(
        elevation = CardDefaults.cardElevation(defaultElevation = 30.dp),
        modifier = Modifier.padding(all = 30.dp)
    ) {
        Column(
            verticalArrangement = Arrangement.Center,
            horizontalAlignment = Alignment.CenterHorizontally,
            modifier = Modifier
                .fillMaxSize()
                .padding(all = 20.dp)
        ) {
            Image(painterResource(id = R.drawable.instagram) , contentDescription =
""
            Text(
                text = "Login to see photos and videos from your friends.",
                fontSize = 15.sp,
                fontFamily = FontFamily.Monospace,
                textAlign = TextAlign.Center,
                fontWeight = FontWeight.Bold,
                color = Color.Black,
                modifier = Modifier
                    .fillMaxWidth()
                    .padding(bottom = 20.dp)
            )
            var username by remember {
                mutableStateOf("")
            }
            OutlinedTextField(value = username, onValueChange = { username = it },
label = {
                Text(
                    text = "Enter your username"
                )
            }, leadingIcon = {
                Icon(Icons.Default.Person, contentDescription = "person")
            }, modifier = Modifier
                .fillMaxWidth()
                .padding(bottom = 10.dp, top = 10.dp)
            )

            var password by remember {
                mutableStateOf("")
            }
            OutlinedTextField(
                value = password,
                onValueChange = { password = it },
                label = {
                    Text(
                        text = "Enter your password"
                    )
                },
                leadingIcon = {
                    Icon(Icons.Default.Info, contentDescription = "password")
                },
                modifier = Modifier
                    .fillMaxWidth()
                    .padding(bottom = 10.dp, top = 10.dp),

```

```

        visualTransformation = PasswordVisualTransformation(),
        keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Password)
    )
    OutlinedButton(
        onClick = { login(username, password, applicationContext) },
        modifier = Modifier
            .fillMaxWidth()
            .padding(bottom = 10.dp, top = 10.dp)
    ) {
        Text(text = "Login")
    }
    Button(onClick = { forgot(applicationContext) }) {
        Text(text="Forgot Password",
            color = Color.Black)
    }
    Row() {
        Text(
            text = "Don't have an account?",
            fontSize = 15.sp,
            fontFamily = FontFamily.Monospace,
            textAlign = TextAlign.Center,
            fontWeight = FontWeight.Bold,
            color = Color.Black,
            modifier = Modifier
                .padding(top = 20.dp)
        )
        Text(
            text = " Sign up",
            fontSize = 15.sp,
            fontFamily = FontFamily.Monospace,
            textAlign = TextAlign.Center,
            fontWeight = FontWeight.Bold,
            color = Color.Blue,
            modifier = Modifier
                .padding(top = 20.dp)
        )
    }
}

}

}

fun login(username: String, password: String, applicationContext: Context) {
    if (username == "siddhesh" && password == "android") {
        Toast.makeText(applicationContext, "Logged In Successfully",
            Toast.LENGTH_SHORT).show()
    } else {
        Toast.makeText(applicationContext, "Log In Failed", Toast.LENGTH_SHORT).show()
    }
}

fun forgot(applicationContext: Context){
    Toast.makeText(applicationContext, "Password reset mail sent",
        Toast.LENGTH_SHORT).show()
}

```

Output:



Video Link:

<https://drive.google.com/file/d/1HqbPKlqQDI4sWVNsGzHGwq1O6c5uVZLJ/view?usp=sharing>