ANDROID DEVELOPMENT ASSIGNMENT 3

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21BBS0252

CODE:

```
package com.example.loginformwithlinks

import android.content.Intent
import android.media.Image
import android.net.Uri
import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface
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.loginformwithlinks.ui.theme.LoginformwithlinksTheme
import androidx.compose.foundation.layout.*
import androidx.compose.material.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment

import androidx.compose.ui.graphics.vector.ImageVector
import androidx.compose.ui.platform.*

import androidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
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.width
import androidx.compose.foundation.shape.CutCornerShape
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Email
import androidx.compose.material.icons.filled.Lock
import androidx.compose.material3.Button
import androidx.compose.material3.ExperimentalMaterial3Api
```

```kotlin
import androidx.compose.material3.Icon
import androidx.compose.material3.Text
import androidx.compose.material3.TextField

import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableStateOf
import androidx.compose.runtime.remember
import androidx.compose.runtime.setValue

import androidx.compose.ui.draw.clip
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.ImeAction
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.input.PasswordVisualTransformation
import androidx.compose.ui.unit.sp
import androidx.compose.ui.unit.dp




//21BBS0252 RAJVIR SINGH
class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            Column(modifier =
Modifier.fillMaxSize().background(Color.Black),
                horizontalAlignment = Alignment.CenterHorizontally) {

                Column(modifier = Modifier.padding(vertical = 50.dp),
verticalArrangement = Arrangement.spacedBy(15.dp) , horizontalAlignment =
Alignment.CenterHorizontally){
                    Login()
                }

                Column (modifier = Modifier.fillMaxWidth(1f),
verticalArrangement = Arrangement.spacedBy(15.dp) , horizontalAlignment =
Alignment.CenterHorizontally) {
                    UsernameField()
                    PasswordField()
                }


                Column (modifier = Modifier
                    .fillMaxSize()
                    .padding(vertical = 240.dp) ,verticalArrangement =
Arrangement.spacedBy(30.dp), horizontalAlignment =
Alignment.CenterHorizontally) {

                    WebsiteButton("Amazon", R.drawable.amazon,
"https://www.amazon.com")
```

```kotlin
                        WebsiteButton("Flipkart", R.drawable.flipkart,
    "https://www.flipkart.com")
                        WebsiteButton("Zomato", R.drawable.zomato,
    "https://www.zomato.com")
                        loginButton()
                    }
                }
            }
        }
    }


    //21BBS0252
    @Composable
    fun Login() {
        Text(
            text = "LOGIN FORM",
            fontFamily = FontFamily.Monospace,
            fontSize = 40.sp,
            fontWeight = FontWeight.Bold,
            color = Color.Cyan
        )
    }
    //21BBS0252 RAJVIR SINGH
    @OptIn(ExperimentalMaterial3Api::class)
    @Composable
    fun UsernameField(){
        var text by remember { mutableStateOf("") }
        TextField(value = text ,
            onValueChange = { text = it },
            label = { Text(text = "Username")},
            leadingIcon = {
                Icon(Icons.Default.Email, contentDescription = "Email")
            },
            modifier = Modifier
                .width(340.dp)
                .clip(CutCornerShape(4.dp))

        )
    }

    @OptIn(ExperimentalMaterial3Api::class)
    @Composable
    fun PasswordField(){
        var text by remember { mutableStateOf("") }
        TextField(value = text ,
            onValueChange = { text = it },
            label = { Text(text = "Password")},
            visualTransformation = PasswordVisualTransformation(),
            leadingIcon = {
                Icon(Icons.Default.Lock, contentDescription = "Password" )
            },
            modifier = Modifier
                .width(340.dp)
                .clip(CutCornerShape(4.dp))
        )
    }
    @Composable
    fun loginButton(){
    //21BBS0252
        Button(modifier = Modifier.padding(20.dp), onClick = { /*TODO*/ }) {
```

```kotlin
            Text(text = "LOGIN")
        }


}



@Composable
fun WebsiteButton(text: String, imageResId: Int, url: String) {
    val context = LocalContext.current
    Button(
        onClick = {
            val intent = Intent(Intent.ACTION_VIEW, Uri.parse(url))
            context.startActivity(intent)

        },
        modifier = Modifier
            .fillMaxWidth()
            .padding(8.dp)

    ) {
        Row(

            verticalAlignment = Alignment.CenterVertically


        ) {
            Image(
                painter = painterResource(id = imageResId),
                contentDescription = null,
                modifier = Modifier.size(32.dp)
            )
            Spacer(modifier = Modifier.width(8.dp))
            Text(text = text)
        }
    }
}
//21BBS0252 RAJVIR SINGH
@Preview(showBackground = true)
@Composable
fun Previewlogin() {

    Column(modifier = Modifier.fillMaxSize().background(Color.Black),
horizontalAlignment = Alignment.CenterHorizontally) {
        Column(modifier = Modifier.padding(vertical = 30.dp),
verticalArrangement = Arrangement.spacedBy(15.dp) , horizontalAlignment =
Alignment.CenterHorizontally){
            Login()
        }

        Column(
            modifier = Modifier,
            verticalArrangement = Arrangement.spacedBy(15.dp),
            horizontalAlignment = Alignment.CenterHorizontally,
        ) {
            UsernameField()
            PasswordField()
        }

        Column (modifier = Modifier
```

```
            .fillMaxSize(1f)
            .padding(vertical = 130.dp) ,verticalArrangement =
Arrangement.spacedBy(30.dp), horizontalAlignment =
Alignment.CenterHorizontally) {

            WebsiteButton("Amazon", R.drawable.amazon,
"https://www.amazon.com")
            WebsiteButton("Flipkart", R.drawable.flipkart,
"https://www.flipkart.com")
            WebsiteButton("Zomato", R.drawable.zomato,
"https://www.zomato.com")
            loginButton()
        }
    }
}
```