



VIT-AP UNIVERSITY

Smart Bridge – Android Application Development

Assignment : 03

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Campus : Andhrapradesh

CODE:

```
@file:OptIn(ExperimentalMaterial3Api::class)

package com.example.loginpage1
import android.content.ActivityNotFoundException
import android.content.Intent
import android.net.Uri
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.Spacer
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.text.KeyboardActions
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material3.Button
import androidx.compose.material3.DropdownMenuItem
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.ExposedDropdownMenuBox
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.OutlinedTextField
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.platform.LocalContext
import androidx.compose.ui.res.painterResource
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.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.material.*
import androidx.compose.material3.ExposedDropdownMenuDefaults
import androidx.compose.material3.TextField
```

```

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView {
            LoginScreen1()
        }
    }
}

@ExperimentalMaterial3Api
@Composable
fun LoginScreen1() {
    var username by remember { mutableStateOf(" ") }
    var password by remember { mutableStateOf(" ") }
    var expanded by remember { mutableStateOf(false) }
    val aps = arrayOf("Ajio", "Amazon", "Flipkart", "Myntra")
    var selectedText by remember { mutableStateOf(aps[0]) }
    val context = LocalContext.current

```

```

Column(
    modifier = Modifier
        .fillMaxSize()
        .padding(16.dp),
    verticalArrangement = Arrangement.Center,
    horizontalAlignment = Alignment.CenterHorizontally
) {

```

```

    Image(painter = painterResource(id = R.drawable.img),
        contentDescription = "Login Image",
        modifier = Modifier
            .size(150.dp)
            .padding(16.dp))

```

```

    Text(
        text = "Login",
        style = MaterialTheme.typography.bodyMedium.copy(
            fontSize = 30.sp,
            fontWeight = FontWeight.Bold,
            color = Color(0xFF476810)
        )
    )

```

```

)
Spacer(modifier = Modifier.height(16.dp))
//Username TextField
OutlinedTextField(
    value = username,

```

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        onValueChange = { username = it },
        label = { Text(text = "Username") },
        modifier = Modifier.fillMaxWidth()
    )
    Spacer(modifier = Modifier.height(16.dp))
    //Password TextField
    OutlinedTextField(
        value = password,
        onValueChange = { password = it },
        label = { Text(text = "Password") },
        keyboardActions = KeyboardActions(
            onDone = {
                //Handle Login Here
            },

        ),
        keyboardOptions = KeyboardOptions(
            keyboardType = KeyboardType.Password,
            imeAction = ImeAction.Done
        ),
        placeholder = {
            Text(text = "Your Placeholder/Hint")
        },
        modifier = Modifier.fillMaxWidth()
    )
    Spacer(modifier = Modifier.height(16.dp))
    Text(text = "Select your Choice from the DropDownMenuBox")
    Spacer(modifier = Modifier.height(16.dp))
    ExposedDropDownMenuBox(
        expanded = expanded,
        onExpandedChange = {
            expanded = !expanded
        }
    ){
        TextField(
            value = selectedText,
            onValueChange = { },
            readOnly = true ,
            trailingIcon = { ExposedDropDownMenuDefaults.TrailingIcon(expanded =
expanded) },
            modifier = Modifier.menuAnchor()
        )
        ExposedDropDownMenu(
            expanded = expanded ,
            onDismissRequest = { expanded = false }) {
            ap.s.forEach { item ->
                DropdownMenuItem(
                    text = { Text(text=item) },
                    onClick = {
                        selectedText = item
                        expanded = false

```

```

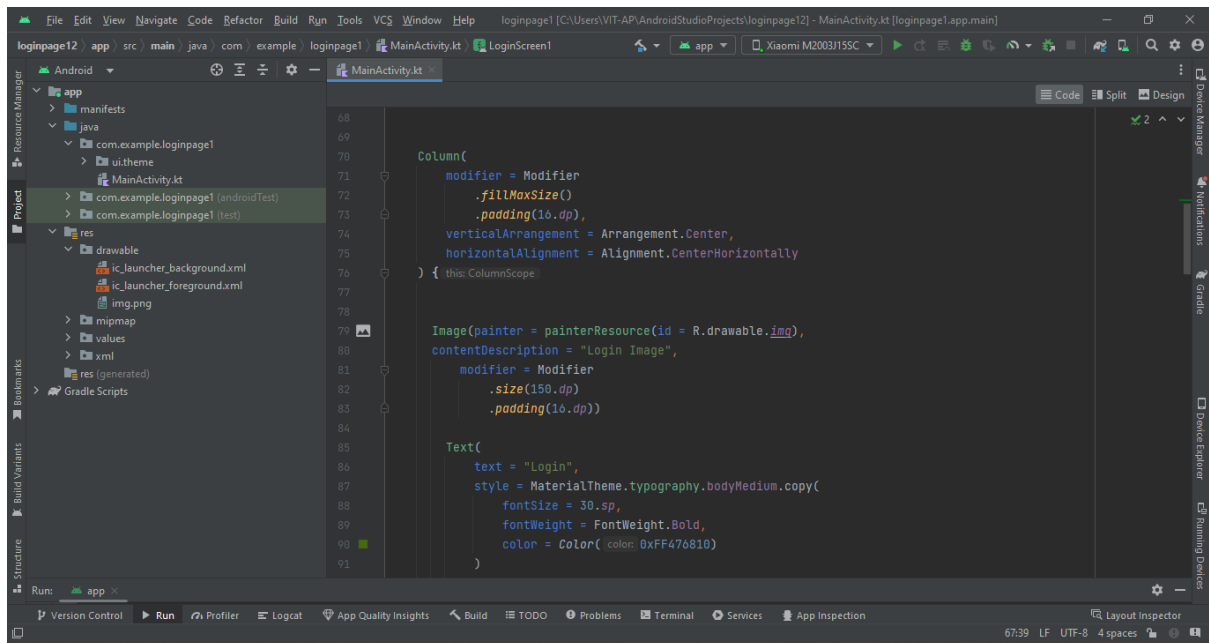
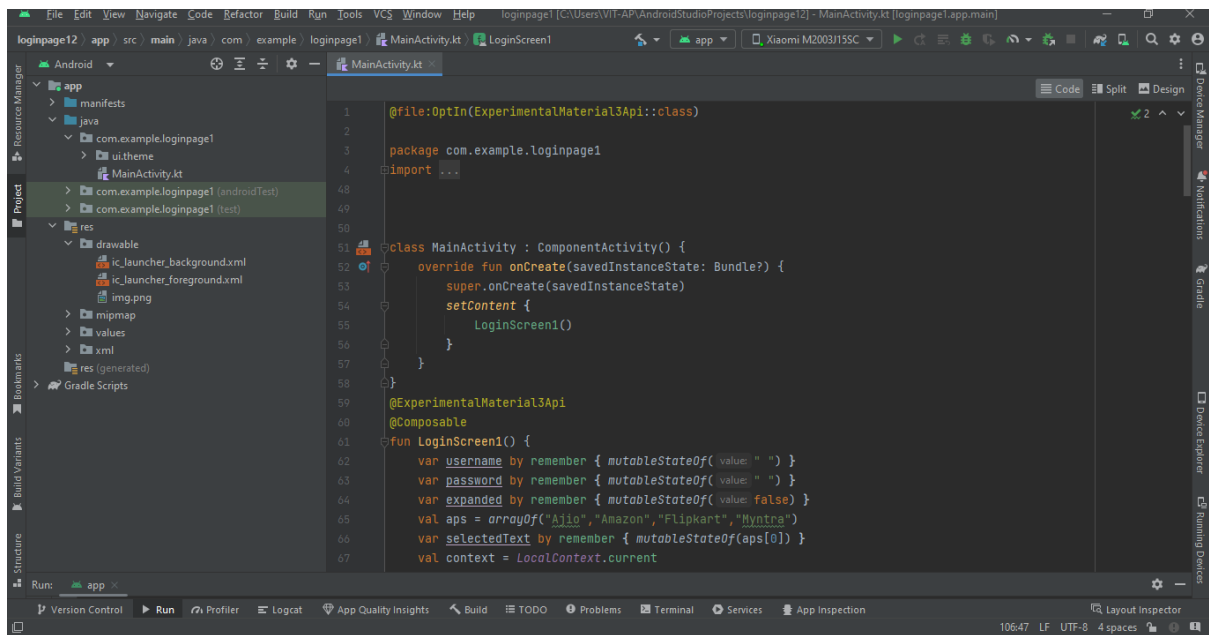
        Toast.makeText(context,item,Toast.LENGTH_SHORT).show()
    })
}
}
}

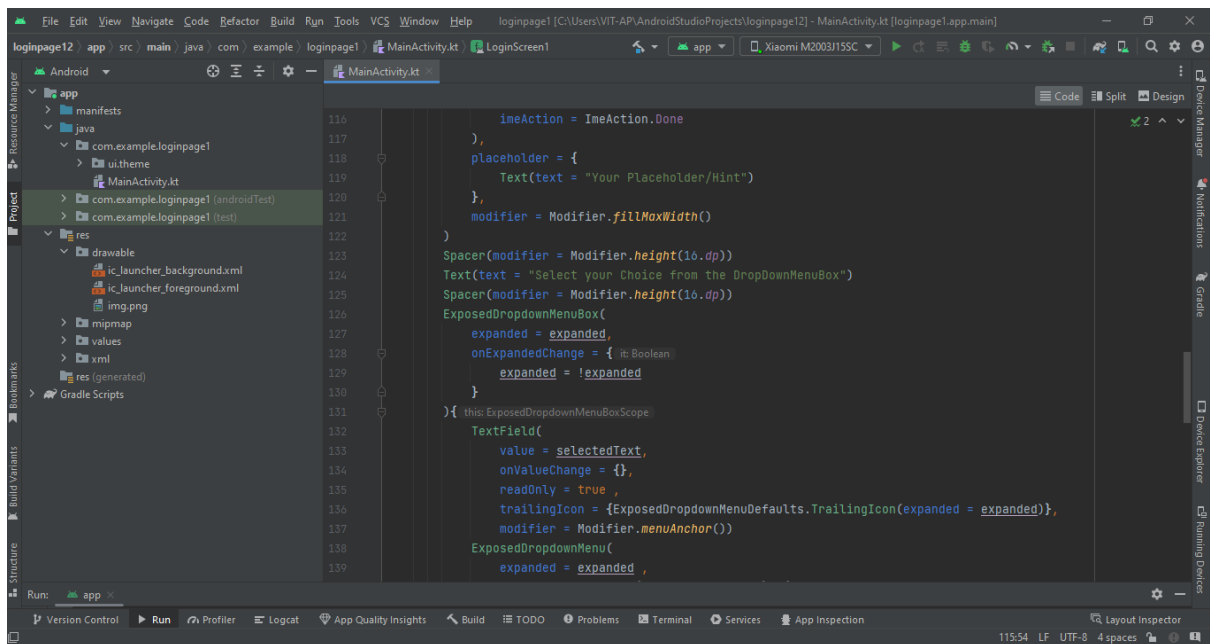
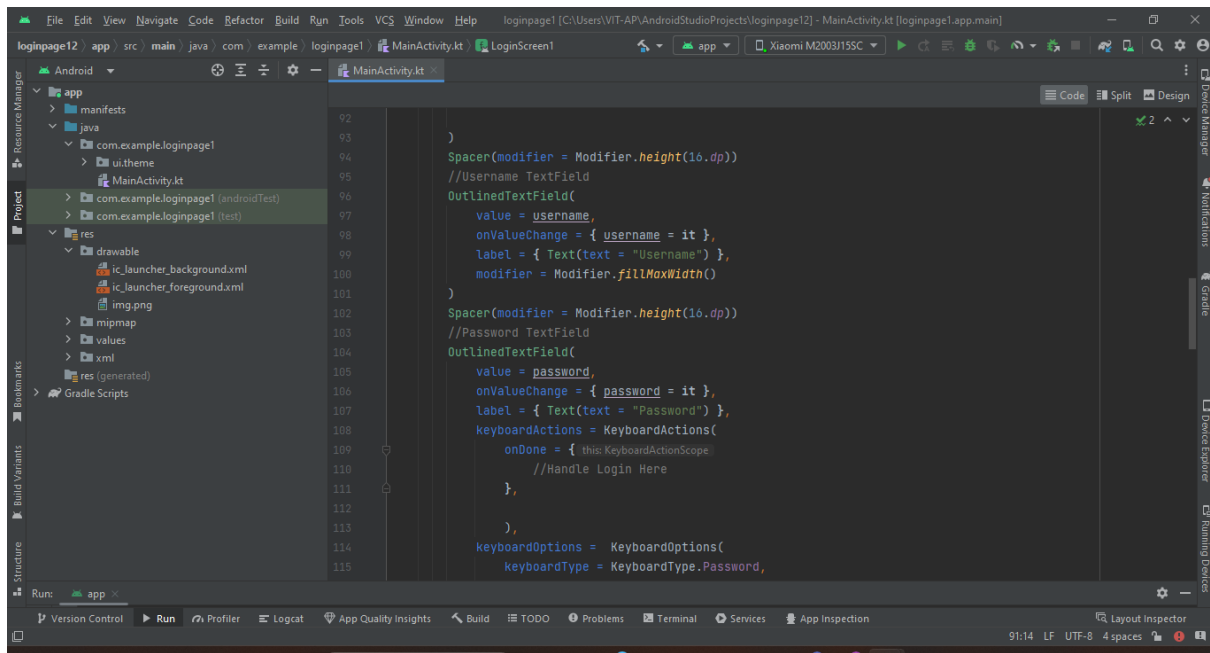
Spacer(modifier = Modifier.height(16.dp))
//Login button
Button(
    onClick = {
        //Create an intent to open Amazon's website
        val intent = Intent(Intent.ACTION_VIEW)
        when(selectedText){
            aps[0] -> intent.data = Uri.parse("https://www.ajio.com")
            aps[1] -> intent.data = Uri.parse("https://www.amazon.com")
            aps[2] -> intent.data = Uri.parse("https://www.flipkart.com")
            else -> intent.data = Uri.parse("https://www.myntra.com")
        }
        //Check if there is an Activity that can handle the intent
        try{
            //Attempt to start the activity for opening the link
            context.startActivity(intent)
        }
        catch(e: ActivityNotFoundException) {
            //Handle the case when no web browser is available
        }
    },
    modifier = Modifier.fillMaxWidth()
)
{
    Text(text = "Navigate to $selectedText")
}

}
}
@Preview
@Composable
fun PreviewLoginScreen() {
    LoginScreen1()
}

```

Screenshots of code and output:



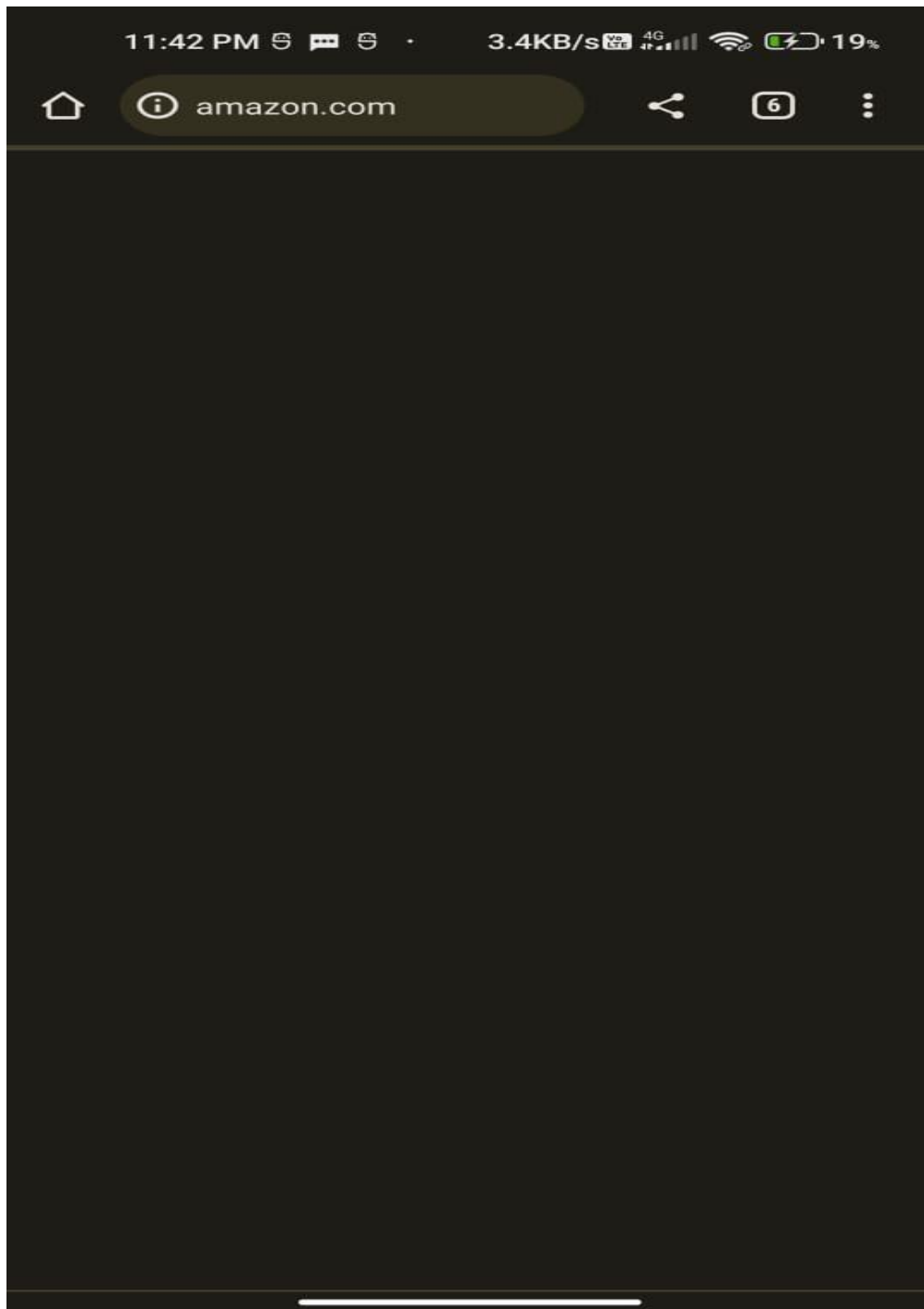




Intial Screen of the application

The image displays a login screen with a light gray background. At the top, the status bar shows the time as 10:43 PM, signal strength, and battery level at 18%. Centered at the top is a black silhouette of a person's head and shoulders inside a circle. Below this icon, the word 'Login' is written in a bold, green font. There are two input fields: the first is labeled 'Username' and contains the text '21bme7016'; the second is labeled 'Password' and contains the text 'nandish@123'. Below these fields, there is a text prompt 'Select your Choice from the DropDownMenuBox' followed by a dropdown menu showing 'Amazon'. At the bottom of the form is a large, rounded purple button with the text 'Navigate to Amazon' in white.

Redirecting to the respective web page after the credentials are provided



.....Thank you.....