ANDROID ASSIGNMENT – 3

LOGIN PAGE (LAYOUTS)

- *MainActivity.kt*

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

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.layout.*
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.graphics.colorspace.ColorSpace
import androidx.compose.ui.graphics.colorspace.Rgb
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.layout.ContentScale.Companion.FillBounds
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.input.ImeAction
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.unit.dp
import androidx.compose.ui.tooling.preview.Preview
import com.example.loginpage1.R
```

```kotlin
32     import com.example.loginpage1.SecondActivity

33

34     class MainActivity : ComponentActivity() {
35         override fun onCreate(savedInstanceState: Bundle?) {
36             super.onCreate(savedInstanceState)
37             setContent {
38                 LoginScreen()
39             }
40         }
41     }

42

43     @Composable
44     fun LoginScreen() {
45         var username by remember { mutableStateOf("") }
46         var password by remember { mutableStateOf("") }

47

48         val context = LocalContext.current

49

50         Box(
51             modifier = Modifier
52                 .fillMaxSize()
53                 .background(Color.LightGray)

54

55         ) {
56             Column(
57                 modifier = Modifier
58                     .fillMaxSize()
59                     .padding(16.dp),
60                 verticalArrangement = Arrangement.Center,
61                 horizontalAlignment = Alignment.CenterHorizontally
```

```kotlin
62              ) {
63                  // Add an Image (logo)
64                  Image(
65                      painter = painterResource(id = android.R.drawable.star_big_off),
66                      contentDescription = null,
67                      contentScale = ContentScale.Crop,
68                      modifier = Modifier
69                          .size(120.dp)
70                          .padding(8.dp)
71                  )
72
73                  Text(
74                      text = "Welcome back!",
75                      style = MaterialTheme.typography.headlineLarge,
76                      color = Color(0xFF000000)
77                  )
78
79                  Spacer(modifier = Modifier.height(16.dp))
80
81                  OutlinedTextField(
82                      value = username,
83                      onValueChange = { username = it },
84                      label = { Text("Username") },
85                      keyboardOptions = KeyboardOptions(
86                          keyboardType = KeyboardType.Text,
87                          imeAction = ImeAction.Done
88                      ),
89                      modifier = Modifier
90                          .fillMaxWidth()
91                          .padding(8.dp)
```
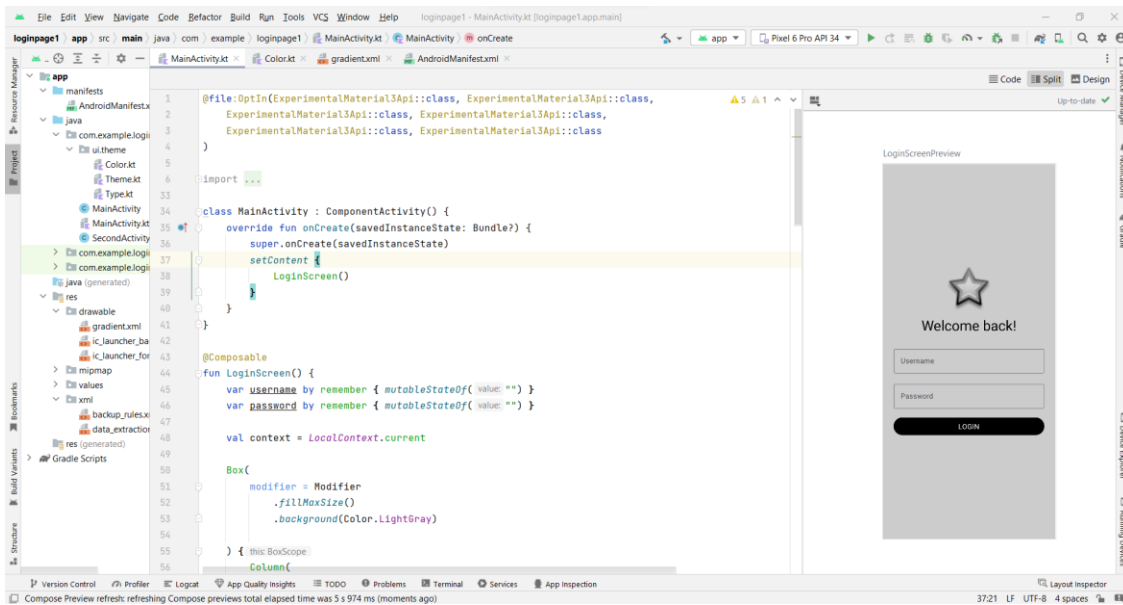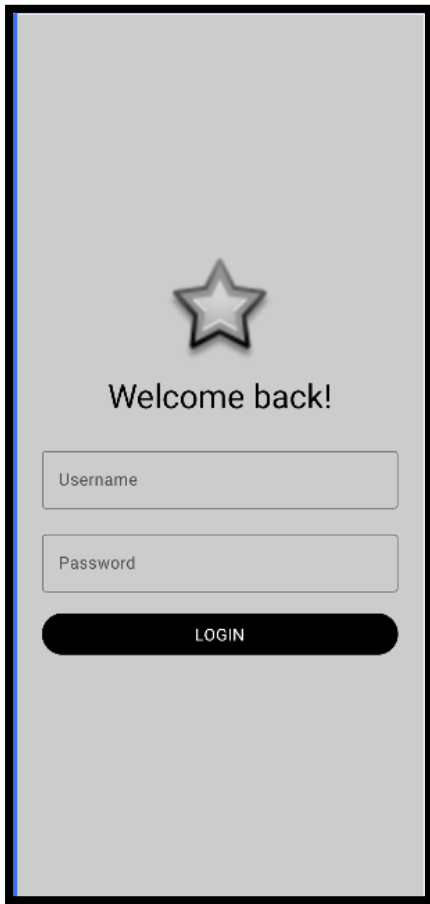
```kotlin
 92                  )
 93
 94              OutlinedTextField(
 95                  value = password,
 96                  onValueChange = { password = it },
 97                  label = { Text("Password") },
 98                  keyboardOptions = KeyboardOptions(
 99                      keyboardType = KeyboardType.Password,
100                      imeAction = ImeAction.Done
101                  ),
102                  modifier = Modifier
103                      .fillMaxWidth()
104                      .padding(8.dp)
105              )
106
107              Button(
108                  onClick = {
109                      if (username == "narasimhan" && password == "abc123") {
110                          // Handle successful login, e.g., navigate to another activity
111                          val intent = Intent(context, SecondActivity::class.java)
112                          context.startActivity(intent)
113                      } else {
114                          // Display a toast for incorrect login
115                          Toast.makeText(context, "Invalid login credentials", Toast.LENGTH_SHORT).show()
116                      }
117                  },
118                  modifier = Modifier
119                      .fillMaxWidth()
120                      .padding(8.dp),
121                  colors = ButtonDefaults.buttonColors(Color.Black) // Set the background color to black
122              ) {
123                  Text(
124                      "LOGIN",
125                      style = MaterialTheme.typography.bodyLarge,
126                      color = Color.White // Text color for the button
127                  )
128              }
129
130          }
131      }
132  }
133
134  @Preview
135  @Composable
136  fun LoginScreenPreview() {
137      LoginScreen()
138  }
```

- *Output*

DONE BY:

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