Android App Development

SmartInternz

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MainActivity Code:

```kotlin
package main.healthcare.sampletraining

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.padding
import androidx.compose.material3.Button
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
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.modifier.modifierLocalConsumer
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import main.healthcare.sampletraining.ui.theme.SampleTrainingTheme

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            Column(modifier = Modifier.fillMaxSize(), verticalArrangement =
Arrangement.Center, horizontalAlignment = Alignment.CenterHorizontally){
                simpleText()
                simpleTextField()
                simpleTextFieldtwo()
                simpleButton()
            }
        }
    }
}

@Composable
fun simpleText(){
```

```kotlin
            Text(text = "LogIn Page", modifier = Modifier.padding(16.dp),
                style = TextStyle.Default
                )

}

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun simpleTextField(){

    var text by remember { mutableStateOf("") }
    TextField(value = text , onValueChange = {it -> text = it }, label = {
Text(text = "User Name")})
}


@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun simpleTextFieldtwo(){
    var text by remember { mutableStateOf("") }
    TextField(value = text, onValueChange = {it -> text = it}, label = {
Text(text = "Password")})
}


@Composable
fun simpleButton(){
    Button(modifier = Modifier.padding(16.dp) , onClick = { /*TODO*/ }) {
        Text(text = "LOG IN")
    }
}


@Preview
@Composable
fun simpleTextPreview(){
    Column(modifier = Modifier.fillMaxSize(), verticalArrangement =
Arrangement.Center, horizontalAlignment = Alignment.CenterHorizontally){
        simpleText()

        simpleTextField()
        simpleTextFieldtwo()

        Column(modifier = Modifier.fillMaxSize(1f), verticalArrangement =
Arrangement.Bottom, horizontalAlignment = Alignment.CenterHorizontally) {
            simpleButton()
        }

    }
}
```

Color code:

```kotlin
package main.healthcare.sampletraining.ui.theme

import androidx.compose.ui.graphics.Color

val Purple80 = Color(0xFFD0BCFF)
```

```kotlin
val PurpleGrey80 = Color(0xFFCCC2DC)
val Pink80 = Color(0xFFEFB8C8)

val Purple40 = Color(0xFF6650a4)
val PurpleGrey40 = Color(0xFF625b71)
val Pink40 = Color(0xFF7D5260)
```

Theme code:

```kotlin
package main.healthcare.sampletraining.ui.theme

import android.app.Activity
import android.os.Build
import androidx.compose.foundation.isSystemInDarkTheme
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.darkColorScheme
import androidx.compose.material3.dynamicDarkColorScheme
import androidx.compose.material3.dynamicLightColorScheme
import androidx.compose.material3.lightColorScheme
import androidx.compose.runtime.Composable
import androidx.compose.runtime.SideEffect
import androidx.compose.ui.graphics.toArgb
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.platform.LocalView
import androidx.core.view.WindowCompat

private val DarkColorScheme = darkColorScheme(
    primary = Purple80,
    secondary = PurpleGrey80,
    tertiary = Pink80
)

private val LightColorScheme = lightColorScheme(
    primary = Purple40,
    secondary = PurpleGrey40,
    tertiary = Pink40

    /* Other default colors to override
    background = Color(0xFFFFFBFE),
    surface = Color(0xFFFFFBFE),
    onPrimary = Color.White,
    onSecondary = Color.White,
    onTertiary = Color.White,
    onBackground = Color(0xFF1C1B1F),
    onSurface = Color(0xFF1C1B1F),
    */
)

@Composable
fun SampleTrainingTheme(
    darkTheme: Boolean = isSystemInDarkTheme(),
    // Dynamic color is available on Android 12+
    dynamicColor: Boolean = true,
    content: @Composable () -> Unit
) {
    val colorScheme = when {
        dynamicColor && Build.VERSION.SDK_INT >= Build.VERSION_CODES.S -> {
            val context = LocalContext.current
            if (darkTheme) dynamicDarkColorScheme(context) else
dynamicLightColorScheme(context)
```

```
        }

        darkTheme -> DarkColorScheme
        else -> LightColorScheme
    }
    val view = LocalView.current
    if (!view.isInEditMode) {
        SideEffect {
            val window = (view.context as Activity).window
            window.statusBarColor = colorScheme.primary.toArgb()
            WindowCompat.getInsetsController(window,
view).isAppearanceLightStatusBars = darkTheme
        }
    }

    MaterialTheme(
        colorScheme = colorScheme,
        typography = Typography,
        content = content
    )
}
```
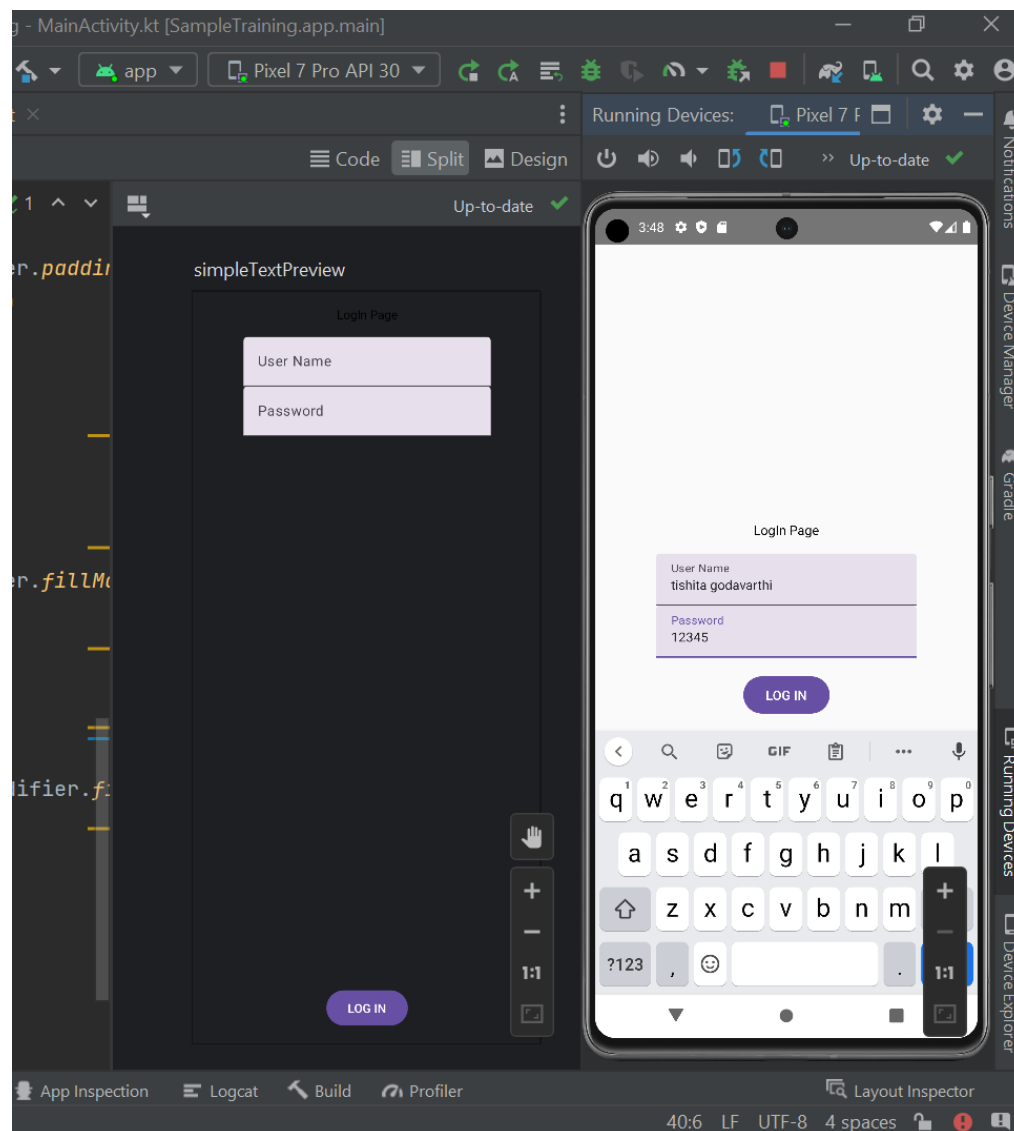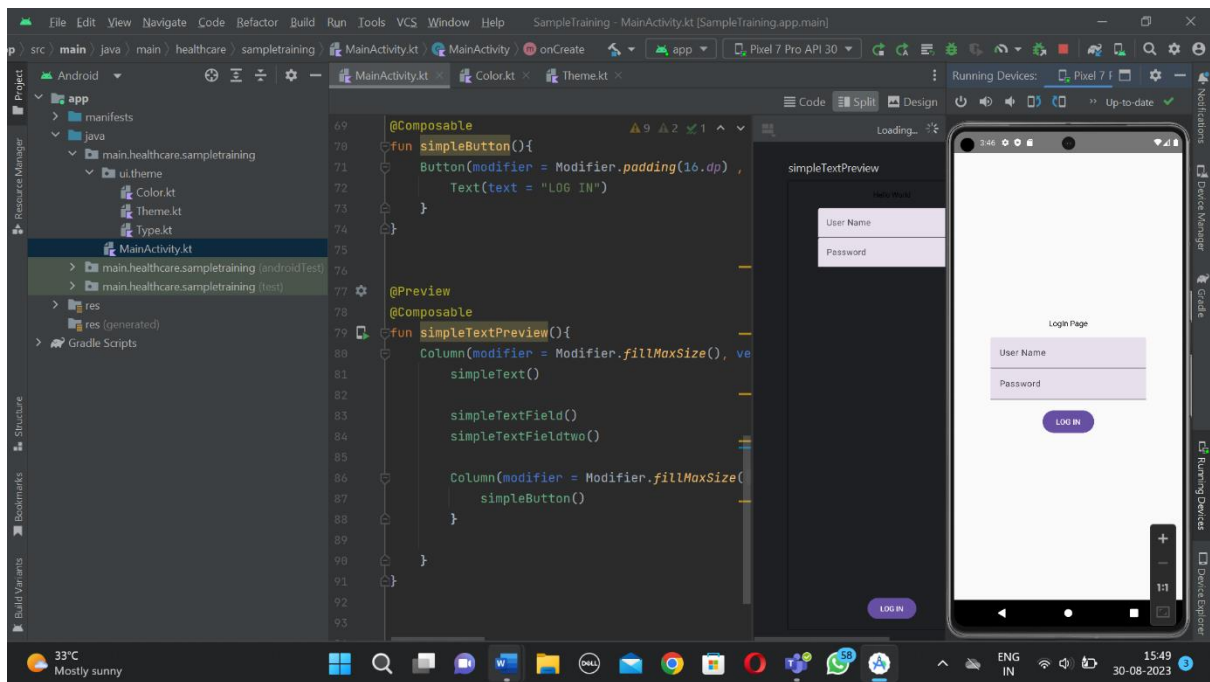
Output using device:Preview output and Device output:

whole screen:

---thankyou---