

Mobile Computing: Calendar

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1 Code: (Kotlin)

```

package com.demo.assignmntsrn

import android.os.Bundle
import android.widget.CalendarView
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.layout.*
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.Scaffold
import androidx.compose.material3.Text
import androidx.compose.material3.TopAppBar
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.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.ui.viewinterop.AndroidView
import com.demo.assignmntsrn.ui.theme.AssignmntsrnTheme
import java.text.SimpleDateFormat
import java.util.Calendar
import java.util.Locale

class MainActivity : ComponentActivity() {
    @OptIn(ExperimentalMaterial3Api::class)
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()

        setContent {
            AssignmntsrnTheme {
                Scaffold(
                    topBar = {
                        TopAppBar(title = { Text("Calendar View") })
                    }
                ) { innerPadding ->
                    CalendarScreen(
                        modifier = Modifier
                            .padding(innerPadding)
                            .fillMaxSize()
                    )
                }
            }
        }
    }
}

@Composable
fun CalendarScreen(
    modifier: Modifier = Modifier
) {
    var selectedDate by remember { mutableStateOf("No date selected") }

```

```

Column(
    modifier = modifier.padding(16.dp),
    horizontalAlignment = androidx.compose.ui.Alignment.CenterHorizontally
) {
    Spacer(modifier = Modifier.height(20.dp))
    Text(
        "Selected Date:",
        textAlign = TextAlign.Center,
        color = Color.Black,
        fontSize = 16.sp
    )
    Text(
        selectedDate,
        textAlign = TextAlign.Center,
        color = Color.Black,
        fontSize = 16.sp
    )
    Spacer(modifier = Modifier.height(20.dp))
    AndroidView(
        modifier = Modifier
            .fillMaxWidth()
            .height(400.dp),
        factory = { context ->
            CalendarView(context).apply {
                date = Calendar.getInstance().timeInMillis
                minDate = Calendar.getInstance().apply { set(2020, 0, 1) }.timeInMillis
                maxDate = Calendar.getInstance().apply { set(2030, 11, 31) }.timeInMillis
                firstDayOfWeek = Calendar.MONDAY
                setOnDateChangeListener { _, year, month, dayOfMonth ->
                    val calendar = Calendar.getInstance()
                    calendar.set(year, month, dayOfMonth)
                    val format = SimpleDateFormat("dd/MM/yyyy", Locale.getDefault())
                    selectedDate = format.format(calendar.time)
                }
            }
        }
    )
}
}

```

Output:

