

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ
ЗАПОРІЗЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ
МЕТЕМАТИЧНИЙ ФАКУЛЬТЕТ
КАФЕДРА ПРОГРАМНОЇ ІНЖЕНЕРІЇ

Дисципліна «Мови програмування мобільних пристроїв»
Лабораторна робота № 5

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<https://github.com/Sokolova2/mob-device>

```
package com.example.multiscreenapp

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.layout.*
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.navigation.NavHost
import androidx.navigation.compose.*
import com.example.multiscreenapp.ui.theme.MultiScreenAppTheme

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

        setContent {
            var isDarkMode by remember { mutableStateOf(false) }

            MultiScreenAppTheme(darkTheme = isDarkMode) {
                AppNavigation(isDarkMode) { newMode ->
                    isDarkMode = newMode
                }
            }
        }
    }
}

@Composable
fun AppNavigation(isDarkMode: Boolean, onToggleDarkMode: (Boolean) -> Unit) {
    val navController = rememberNavController()

    NavHost(navController = navController, startDestination = "home") {
        composable("home") {
            HomeScreen(navController)
        }
        composable("details/{itemId}") { backStackEntry ->
            val itemId = backStackEntry.arguments?.getString("itemId")
            DetailsScreen(navController, itemId)
        }
        composable("setting") {
            SettingScreen(navController, isDarkMode, onToggleDarkMode)
        }
    }
}
```

```

package com.example.multiscreenapp

import androidx.compose.foundation.background
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.lazy.LazyColumn
import androidx.compose.foundation.clickable
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.compose.ui.Modifier
import androidx.compose.ui.unit.dp
import androidx.navigation.NavController
import androidx.compose.foundation.lazy.items

@Composable
fun HomeScreen(navController: NavController) {
    val items = listOf("Item 1", "Item 2", "Item 3")
    var text by remember { mutableStateOf("") }

    Column(
        modifier = Modifier
            .fillMaxSize()
            .background(MaterialTheme.colorScheme.background)
            .padding(16.dp)
    ) {
        TextField(
            value = text,
            onChange = { text = it },
            label = { Text("Enter something") }
        )
        Text(text = "You typed: $text", color = MaterialTheme.colorScheme.onBackground)

        Spacer(modifier = Modifier.height(16.dp))

        LazyColumn {
            items(items) { item ->
                Text(
                    text = item,
                    modifier = Modifier
                        .fillMaxWidth()
                        .padding(16.dp)
                        .clickable {
                            navController.navigate("details/${item}")
                        },
                    color = MaterialTheme.colorScheme.onBackground
                )
            }
        }
        Spacer(modifier = Modifier.height(16.dp))

        Button(onClick = { navController.navigate("setting") }) {
            Text("Setting")
        }
    }
}

```

```
}  
}
```

```
package com.example.multiscreenapp
```

```
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.padding  
import androidx.compose.ui.Modifier  
import androidx.navigation.NavController  
import androidx.compose.ui.tooling.preview.Preview  
import androidx.compose.ui.unit.dp  
import androidx.compose.foundation.layout.*  
import androidx.compose.material3.*  
import androidx.compose.runtime.*  
import androidx.compose.foundation.background
```

```
@Composable
```

```
fun SettingScreen(navController: NavController, isDarkMode: Boolean, onToggleDarkMode:  
(Boolean) -> Unit){
```

```
    Column(  
        modifier = Modifier  
            .fillMaxSize()  
            .background(MaterialTheme.colorScheme.background)  
            .padding(16.dp)  
    ){
```

```
        Text(text = "Setting", style = MaterialTheme.typography.headlineSmall, color =  
MaterialTheme.colorScheme.onBackground)
```

```
        Spacer(modifier = Modifier.height(16.dp))
```

```
        Text("Dark Mode", color = MaterialTheme.colorScheme.onBackground)
```

```
        Switch(  
            checked = isDarkMode,  
            onCheckedChange = { newState ->  
                onToggleDarkMode(newState)  
            }  
        )
```

```
        Spacer(modifier = Modifier.height(32.dp))
```

```
        Button(onClick = { navController.popBackStack() }) {  
            Text("Home")  
        }
```

```
    }  
}
```

```
package com.example.multiscreenapp
```

```
import androidx.compose.foundation.background
```

```

import androidx.compose.foundation.layout.*
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.navigation.NavController

@Composable
fun DetailsScreen(navController: NavController, itemId: String?) {
    var counter by remember { mutableIntStateOf(0) }

    Column(
        modifier = Modifier
            .fillMaxSize()
            .background(MaterialTheme.colorScheme.background)
            .padding(16.dp),
        horizontalAlignment = Alignment.CenterHorizontally,
        verticalArrangement = Arrangement.Center
    ) {
        Text(text = "Details for $itemId", style = MaterialTheme.typography.headlineSmall, color =
MaterialTheme.colorScheme.onBackground)
        Spacer(modifier = Modifier.height(16.dp))
        Text(text = "Counter: $counter", style = MaterialTheme.typography.bodyLarge, color =
MaterialTheme.colorScheme.onBackground)

        Button(onClick = { counter++ }) {
            Text("Increment Counter")
        }

        Spacer(modifier = Modifier.height(16.dp))

        Button(onClick = { navController.popBackStack() }) {
            Text("Back to Home")
        }
    }
}

```





