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

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| 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)  }  }  } |

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| 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,  onValueChange = { 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")  }  }  } |

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| 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")  }  }  } |

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| 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")  }  }  } |











