**21BCT0313**

**Anaadi Rumpal**

**VIT VELLORE (VELLORE)**

**CSE IOT**

**ASSIGNMENT -3**

**Links of ecommerce websites using kotlin composables**

**Kotlin File**

package com.example.linkscomposable  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.BackHandler  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.fillMaxWidth  
import androidx.compose.foundation.layout.padding  
import androidx.compose.material3.Button  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.internal.composableLambda  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.platform.*LocalContext*import androidx.compose.ui.tooling.preview.Preview  
import androidx.compose.ui.unit.dp  
import com.example.linkscomposable.ui.theme.LinksComposableTheme  
import android.content.Intent  
import android.net.Uri  
import androidx.activity.compose.BackHandler  
import androidx.annotation.DrawableRes  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.clickable  
import androidx.compose.foundation.layout.\*  
import androidx.compose.foundation.lazy.LazyColumn  
import androidx.compose.foundation.lazy.items  
import androidx.compose.foundation.text.BasicTextField  
import androidx.compose.material.\*  
import androidx.compose.runtime.\*  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.platform.\*  
import androidx.compose.ui.text.input.TextFieldValue  
import androidx.compose.ui.unit.dp  
import androidx.core.content.ContextCompat  
import androidx.navigation.compose.NavHost  
import androidx.navigation.compose.composable  
import androidx.navigation.compose.rememberNavController  
import androidx.compose.material3.Typography  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.text.TextStyle  
import androidx.compose.ui.text.font.FontWeight  
import androidx.compose.ui.unit.sp  
import com.example.linkscomposable.ECommerceSite  
import com.example.linkscomposable.*ecommerceSites*import kotlin.collections.mapOf  
  
  
  
@Composable  
fun Greeting(name: String) {  
 Text(text = "Hello, $name!")  
}  
  
  
  
data class ECommerceSite(val name: String, val url: String)  
  
val *ecommerceSites* = *listOf*(  
 ECommerceSite("Amazon", "https://www.amazon.com/"),  
 ECommerceSite("eBay", "https://www.ebay.com/"),  
 ECommerceSite("Walmart", "https://www.walmart.com/"),  
)  
  
  
  
  
class MainActivity : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** LinksComposableTheme **{** Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.background  
 ) **{** ECommerceApp()  
 **}  
 }  
 }** }  
}  
  
  
  
@Composable  
fun ECommerceButton(  
 site: ECommerceSite,  
 onClick: () -> Unit  
) {  
 Button(  
 onClick = onClick,  
 modifier = Modifier  
 .*padding*(8.*dp*)  
 .*fillMaxWidth*()  
 ) **{** Text(text = site.name)  
 **}**}  
  
val *customH4TextStyle* = TextStyle(  
 fontSize = 20.*sp*,  
 fontWeight = FontWeight.Bold,  
 lineHeight = 24.*sp*,  
 color = Color.Black  
)  
  
@Composable  
fun ECommerceList() {  
 val context = *LocalContext*.current  
 val navController = rememberNavController()  
  
 BackHandler **{** if (navController.currentBackStackEntry?.destination?.route == "WebPage") {  
 navController.popBackStack()  
 }  
 **}** NavHost(navController, startDestination = "ECommerceList") **{** *composable*("ECommerceList") **{** LazyColumn **{** item **{** Text(  
 text = "Links",  
 style = *customH4TextStyle*.copy(  
 fontSize = 24.*sp*,  
 color = Color.Red  
 ),  
 modifier = Modifier  
 .*fillMaxWidth*()  
 .*padding*(16.*dp*)  
 .*wrapContentWidth*(Alignment.CenterHorizontally)  
 )  
 **}** *items*(*ecommerceSites*) **{** site **->** Row(  
 modifier = Modifier  
 .*fillMaxWidth*()  
 .*padding*(20.*dp*),  
 verticalAlignment = Alignment.CenterVertically  
 ) **{** Text(  
 text = site.name,  
 style = *customH4TextStyle*,  
 modifier = Modifier.*weight*(1f)  
 )  
  
 Image(  
 painter = painterResource(id = *getLogoResourceId*(site.name)), // Replace with actual image resource ID  
 contentDescription = null,  
 modifier = Modifier  
 .*size*(150.*dp*)  
 .*padding*(8.*dp*)  
 )  
  
 Button(  
 onClick = **{** val intent = Intent(Intent.*ACTION\_VIEW*)  
 intent.*data* = Uri.parse(site.url)  
 context.startActivity(intent)  
 **}**,  
 modifier = Modifier.*padding*(start = 16.*dp*)  
 ) **{** Text(text = "Visit")  
 **}  
 }  
 }  
 }  
 }  
 }**}  
@DrawableRes  
  
fun getLogoResourceId(siteName: String): Int {  
 return when (siteName) {  
 "Amazon" -> R.drawable.*img* "eBay" -> R.drawable.*img\_1* "Walmart" -> R.drawable.*img\_2* else -> R.drawable.*img* }  
}  
  
  
@Composable  
fun ECommerceApp() {  
 MaterialTheme **{** ECommerceList()  
 **}**}  
  
@Preview(showBackground = true)  
@Composable  
fun PreviewECommerceApp() {  
 ECommerceApp()  
}

OUTPUT –



  