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20BCE1389

Smartbridge Externship Programme

Android App Development with Kotlin

Week - 1

Google and Instagram Sign Up UI

Main Activity

package com.example.week1  
  
import android.content.Intent  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.padding  
import androidx.compose.material3.Button  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import androidx.core.content.ContextCompat  
import androidx.core.content.ContextCompat.startActivity  
  
class MainActivity : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** *//Buttons()* Column(modifier = Modifier.*padding*(20.*dp*))  
 **{** Text("K Niranjana 20BCE1389",fontSize=30.*sp*)  
 Button(onClick = **{** val i = Intent(this@MainActivity, Google::class.*java*)  
 startActivity(i)  
 **}**)  
 **{** Text(text = "Google Signup")  
 **}** Button(onClick = **{** val i = Intent(this@MainActivity, Instagram::class.*java*)  
 startActivity(i)  
 **}**)  
 **{** Text(text = "Instagram Signup")  
 **}  
 }  
 }** }  
}  
*//mContext.startActivity(Intent(mContext, Googlesignup::class.java))*

Google

package com.example.week1  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Row  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.layout.size  
import androidx.compose.foundation.layout.width  
import androidx.compose.foundation.text.ClickableText  
import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.Checkbox  
import androidx.compose.material3.CheckboxColors  
import androidx.compose.material3.CheckboxDefaults  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.OutlinedTextField  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextField  
import androidx.compose.material3.TextFieldDefaults  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.ui.Modifier  
import androidx.compose.runtime.getValue  
import androidx.compose.runtime.setValue  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.graphics.Color.Companion.*Blue*import androidx.compose.ui.graphics.Color.Companion.*Gray*import androidx.compose.ui.graphics.Color.Companion.*LightGray*import androidx.compose.ui.graphics.Color.Companion.*White*import androidx.compose.ui.platform.*LocalConfiguration*import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.text.AnnotatedString  
import androidx.compose.ui.text.input.PasswordVisualTransformation  
import androidx.compose.ui.text.input.TextFieldValue  
import androidx.compose.ui.text.input.VisualTransformation  
import androidx.compose.ui.tooling.preview.Preview  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.week1.ui.theme.Week1Theme  
  
class Google : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** Week1Theme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.background  
 ) **{** Googles()  
 **}  
 }  
 }** }  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Preview("Sign up")  
@Composable  
fun Googles()  
{  
 Column(modifier=Modifier.*padding*(15.*dp*).*background*(Color.White))**{** *//Logo* Image(painterResource(id = R.drawable.*google* ), contentDescription ="logo", modifier=Modifier.*size*(150.*dp*))  
 Text("Create your Google Account",fontSize=30.*sp*)  
  
  
 var fn by remember()**{** *mutableStateOf*(TextFieldValue(""))  
 **}** var ln by remember()**{** *mutableStateOf*(TextFieldValue(""))  
 **}** *//First Name and Last Name* Row() **{** OutlinedTextField(value = fn,  
 onValueChange = **{** fn = **it }**,  
 label = **{** Text("First Name") **}** ,  
 colors = TextFieldDefaults.outlinedTextFieldColors(  
 focusedBorderColor = *Blue*,  
 unfocusedBorderColor = *Blue*, focusedLabelColor = *Blue* ),modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp* / 2f-10.*dp*)  
  
 )  
 Spacer(modifier = Modifier.*width*(20.*dp*))  
 OutlinedTextField(value = ln,  
 onValueChange = **{** ln = **it }**,  
 label = **{** Text("Last Name") **}**,  
 colors = TextFieldDefaults.outlinedTextFieldColors(  
 focusedBorderColor = *Blue*,  
 unfocusedBorderColor = *Blue*, focusedLabelColor = *Blue* ),modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp* / 2f-15.*dp*)  
 )  
 **}** Spacer(modifier = Modifier.*height*(30.*dp*))  
  
 *//User Name* var un by remember()**{** *mutableStateOf*(TextFieldValue(""))  
 **}** OutlinedTextField(value = un, onValueChange = **{** un = **it }**,label = **{**Text("User Name")**}**,  
 colors = TextFieldDefaults.outlinedTextFieldColors(  
 focusedBorderColor = *Blue*,  
 unfocusedBorderColor = *Blue*, focusedLabelColor = *Blue*),  
 trailingIcon = **{**Text("@gmail.com ")**}**,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
  
  
 *//Enabling Different Email* var enabled by remember **{** *mutableStateOf*(true)**}** var txt by remember **{** *mutableStateOf*("Use my current email address instead") **}** Button(onClick = **{** if (enabled) {  
 enabled = false  
 txt = "Create a new Gmail address instead"  
 }**}**,colors = ButtonDefaults.buttonColors(containerColor = *White*, contentColor = *Blue*, disabledContainerColor = *White*, disabledContentColor = *Gray*))  
 **{** Text(text = txt)  
 **}** Spacer(modifier = Modifier.*height*(30.*dp*))  
  
  
 *//Password* var pwd by remember()**{** *mutableStateOf*(TextFieldValue(""))  
 **}** var pwd2 by remember()**{** *mutableStateOf*(TextFieldValue(""))  
 **}** Row() **{** OutlinedTextField(value = pwd,  
 onValueChange = **{** pwd = **it }**,  
 label = **{** Text("Password") **}**,  
 visualTransformation = PasswordVisualTransformation(),  
 colors = TextFieldDefaults.outlinedTextFieldColors(  
 focusedBorderColor = *Blue*,  
 unfocusedBorderColor = *Blue*, focusedLabelColor = *Blue* ),modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp* / 2f-10.*dp*)  
 )  
 Spacer(modifier = Modifier.*width*(20.*dp*))  
 OutlinedTextField(value = pwd2,  
 onValueChange = **{** pwd2 = **it }**,  
 label = **{** Text("Confirm") **}**,  
 visualTransformation = PasswordVisualTransformation(),  
 colors = TextFieldDefaults.outlinedTextFieldColors(  
 focusedBorderColor = *Blue*,  
 unfocusedBorderColor = *Blue*, focusedLabelColor = *Blue* ),modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp* / 2f)  
 )  
 **}** Spacer(modifier = Modifier.*height*(20.*dp*))  
  
 *//Checkbox* Row()**{** val checkedState = remember **{** *mutableStateOf*(true) **}** Checkbox(  
 checked = checkedState.value,  
 modifier = Modifier.*padding*(5.*dp*),  
 onCheckedChange = **{** checkedState.value = **it }**,  
 colors = CheckboxDefaults.colors(checkedColor = Color.Blue,  
 uncheckedColor = Color.Transparent, disabledCheckedColor = *Gray*)  
 )  
 Text(text = "Show Password", modifier = Modifier.*padding*(16.*dp*))**}** Spacer(modifier = Modifier.*height*(20.*dp*))  
 *//Buttons* Row()  
 **{** Button(onClick = **{ }**,colors = ButtonDefaults.buttonColors(containerColor = *White*, contentColor = *Blue*, disabledContainerColor = *White*, disabledContentColor = *Gray*))  
 **{** Text(text ="Sign In Instead")  
 **}** Spacer(modifier = Modifier.*width*(30.*dp*))  
 Button(onClick = **{ }**,colors = ButtonDefaults.buttonColors(containerColor = *Blue*, contentColor = *White*, disabledContainerColor = *Gray*, disabledContentColor = *White*))  
 **{** Text(text ="Next")  
 **}  
 }  
 }**}

Instagram

package com.example.week1  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.Image  
*//import androidx.compose.foundation.gestures.ModifierLocalScrollableContainerProvider.value*import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Row  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.layout.size  
import androidx.compose.foundation.layout.width  
import androidx.compose.material.icons.Icons  
import androidx.compose.material.icons.filled.*FavoriteBorder*import androidx.compose.material.icons.filled.*Phone*import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.Icon  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextField  
import androidx.compose.material3.TextFieldDefaults  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.\*  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.platform.*LocalConfiguration*import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.text.input.TextFieldValue  
import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.tooling.preview.Preview  
import androidx.compose.ui.unit.dp  
import com.example.week1.ui.theme.Week1Theme  
import org.intellij.lang.annotations.JdkConstants.HorizontalAlignment  
  
class Instagram : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** Week1Theme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.background  
 ) **{** insta()  
 **}  
 }  
 }** }  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Preview(" IG Sign up")  
@Composable  
fun insta()  
{  
 Column(horizontalAlignment= Alignment.CenterHorizontally,  
 verticalArrangement=Arrangement.Center )  
 **{** Image(painterResource(id = R.drawable.*ig2* ), contentDescription ="logo", modifier=Modifier.*size*(150.*dp*))  
 Text("Sign up to see photos and videos from your friends.")  
 Button(onClick = **{}**, modifier = Modifier.*padding*(3.*dp*)  
 .*width*(*LocalConfiguration*.current.screenWidthDp.*dp*-20.*dp*)  
 ,colors = ButtonDefaults.buttonColors(containerColor = Color.Black, contentColor = Color.White,  
 disabledContainerColor = Color.Gray, disabledContentColor = Color.White)  
 ) **{** Row **{** Icon(  
 imageVector = Icons.Default.*Phone*,  
 contentDescription = null,  
 modifier = Modifier.*padding*(end = 4.*dp*)  
 )  
 Text(text = "Log In with Facebook")  
 **}  
 }** var un by remember()**{** *mutableStateOf*(TextFieldValue(" "))  
 **}** Text("OR", textAlign = TextAlign.Center)  
 var clrs = TextFieldDefaults.textFieldColors(containerColor = Color.LightGray, placeholderColor = Color.Gray)  
 TextField(value = un, onValueChange = **{**un=**it}**,  
 modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*-20.*dp*), colors = clrs  
 , label = **{**Text("Mobile Number or Email")**}**)  
 Spacer(modifier=Modifier.*height*(10.*dp*))  
  
 TextField(value = un, onValueChange = **{**un=**it}**,  
 modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*-20.*dp*), colors = clrs, label = **{**Text("Full Name")**}**)  
 Spacer(modifier=Modifier.*height*(10.*dp*))  
  
 TextField(value = un, onValueChange = **{**un=**it}**,  
 modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*-20.*dp*), colors = clrs, label = **{**Text("User Name")**}**)  
 Spacer(modifier=Modifier.*height*(10.*dp*))  
  
 TextField(value = un, onValueChange = **{**un=**it}**,  
 modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*-20.*dp*), colors = clrs, label = **{**Text("Password")**}**)  
 Spacer(modifier=Modifier.*height*(10.*dp*))  
 Text("People who use our service may have uploaded your contact information to Instagram. Learn More", textAlign = TextAlign.Center)  
 Text("By signing up, you agree to our Terms , Privacy Policy and Cookies Policy .", textAlign = TextAlign.Center)  
 Button(onClick = **{ }**,colors = ButtonDefaults.buttonColors(containerColor = Color.Black, contentColor = Color.White, disabledContainerColor = Color.Gray, disabledContentColor = Color.White),  
 modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*-20.*dp*))  
 **{** Text(text ="Sign Up")  
 **}  
 }** }