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20BCE1389

Smartbridge Externship Programme

Android App Development with Kotlin

Week - 2

Simple Blood Bank App UI

Main Activity

package com.example.bloodbankapp  
  
import android.content.Intent  
import android.os.Bundle  
import android.view.animation.OvershootInterpolator  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.animation.core.tween  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.layout.Box  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.size  
import androidx.compose.material3.Surface  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.LaunchedEffect  
import androidx.compose.runtime.remember  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.draw.scale  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.platform.LocalContext  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.unit.dp  
import androidx.navigation.NavController  
import androidx.navigation.compose.NavHost  
import androidx.navigation.compose.composable  
import androidx.navigation.compose.rememberNavController  
import kotlinx.coroutines.delay  
  
class MainActivity : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContent **{** Surface(color = Color.White, modifier = Modifier.fillMaxSize()) **{** Navigation()  
 **}  
 }**}}  
  
@Composable  
fun Navigation() {  
 val navController = rememberNavController()  
 NavHost(navController = navController,  
 startDestination = "splash\_screen") **{** composable("splash\_screen") **{** SplashScreen(navController = navController)  
 **}** *// Main Screen* composable("main\_screen") **{** Box(modifier = Modifier.fillMaxSize(), contentAlignment = Alignment.Center) **{** *// Text(text = "Main Screen", color = Color.Black, fontSize = 24.sp)* val context = LocalContext.current  
 *//val intent = Intent(context, HomePage::class.java)* val intent = Intent(context, LoginPage::class.java)  
 *//intent.putExtra(YourExtraKey, YourExtraValue)* context.startActivity(intent)  
 **}  
 }  
 }**}  
  
@Composable  
fun SplashScreen(navController: NavController) {  
 val scale = remember **{** androidx.compose.animation.core.Animatable(0f)  
 **}** *// AnimationEffect* LaunchedEffect(key1 = true) **{** scale.animateTo(  
 targetValue = 0.7f,  
 animationSpec = tween(  
 durationMillis = 800,  
 easing = **{** OvershootInterpolator(4f).getInterpolation(it)  
 **}**)  
 )  
 delay(1500L)  
 navController.navigate("main\_screen")  
 **}** *// Image* Box(contentAlignment = Alignment.Center,  
 modifier = Modifier.fillMaxSize()) **{** Image(painter = painterResource(id = R.drawable.bbank),  
 contentDescription = "Logo",  
 modifier = Modifier.scale(scale.value)  
 .size(1000.dp))  
 **}**}

Home Page

package com.example.bloodbankapp  
  
import android.content.Intent  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.ExperimentalLayoutApi  
import androidx.compose.foundation.layout.PaddingValues  
import androidx.compose.foundation.layout.Row  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.consumedWindowInsets  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.fillMaxWidth  
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.rememberScrollState  
import androidx.compose.foundation.verticalScroll  
import androidx.compose.material.icons.Icons  
import androidx.compose.material.icons.filled.*Home*import androidx.compose.material.icons.filled.*Info*import androidx.compose.material.icons.filled.*Person*import androidx.compose.material.icons.filled.*PlayArrow*import androidx.compose.material3.Button  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.Icon  
import androidx.compose.material3.IconButton  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Scaffold  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.material3.TopAppBar  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.draw.drawBehind  
import androidx.compose.ui.geometry.Offset  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.platform.*LocalContext*import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class HomePage : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.error  
 ) **{** *//MainContent(PaddingValues(all = 0.dp))* CustomScaffold()  
 **}  
 }  
 }** }  
}  
  
@OptIn(ExperimentalLayoutApi::class)  
@Composable  
fun MainContent(padding: PaddingValues) {  
 val context = *LocalContext*.current  
 Column(  
 modifier =  
 Modifier.*verticalScroll*(rememberScrollState()),  
 verticalArrangement = Arrangement.Center,  
 horizontalAlignment = Alignment.CenterHorizontally  
 ) **{** Column(  
 modifier = Modifier  
 .*padding*(20.*dp*)  
 .*padding*(padding)  
 .*consumedWindowInsets*(padding),  
 horizontalAlignment = Alignment.CenterHorizontally,  
 verticalArrangement = Arrangement.Center  
 ) **{** Image(  
 painterResource(id = R.drawable.*bbank*),  
 contentDescription =  
 "bbank",  
 modifier = Modifier.*size*(width = 420.*dp*, height = 200.*dp*)  
 )  
 Spacer(modifier = Modifier.*height*(30.*dp*))  
  
 Text("Welcome to the Blood Bank!", fontSize = 20.*sp*)  
 Spacer(modifier = Modifier.*height*(30.*dp*))  
  
 Text("20BCE1389 K Niranjana")  
 Text("VIT Chennai")  
 Spacer(modifier = Modifier.*height*(30.*dp*))  
 Row()**{** Button(onClick=**{** val intent = Intent(context, Donorlist::class.*java*)  
 context.startActivity(intent)  
 **}**)**{** Text("Donor List")  
 **}** Spacer(modifier = Modifier.*width*(30.*dp*))  
 Button(onClick=**{** val intent = Intent(context, Requestlist::class.*java*)  
 context.startActivity(intent)  
 **}**)**{** Text("Donor Requests")  
 **}  
 }** Spacer(modifier = Modifier.*height*(40.*dp*))  
  
 Row()**{** Button(onClick=**{** val intent = Intent(context, Donation::class.*java*)  
 context.startActivity(intent)**}**)**{** Text("Donate")  
 **}** Spacer(modifier = Modifier.*width*(30.*dp*))  
 Button(onClick=**{** val intent = Intent(context, Requests::class.*java*)  
 context.startActivity(intent)**}**)**{** Text("Request")  
 **}  
 }** Spacer(modifier = Modifier.*height*(40.*dp*))  
  
  
 **}  
 }**}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun CustomScaffold() {  
 Scaffold(  
 topBar = **{** CustomTopBar() **}**,  
 content = **{** h **->** MainContent(h) **}**,  
 bottomBar = **{** CustomBottomBar()**}** )  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun CustomTopBar() {  
 val context = *LocalContext*.current  
 TopAppBar(  
 title = **{** Row(  
 verticalAlignment = Alignment.CenterVertically, horizontalArrangement =  
 Arrangement.SpaceBetween, modifier = Modifier  
 .*fillMaxWidth*()  
 .*padding*(  
 end = 5  
 .*dp* )  
 ) **{** Spacer(modifier = Modifier.*width*(250.*dp*))  
 Text("Log Out")  
 *//Spacer(modifier = Modifier.width(.dp))* IconButton(onClick = **{** val intent = Intent(context, LoginPage::class.*java*)  
 context.startActivity(intent) **}**) **{** Icon(  
 Icons.Filled.*PlayArrow*, contentDescription = "Log Out", modifier = Modifier  
 .*size*(30.*dp*)  
 )  
  
 **}  
  
  
 }  
 }**,  
 modifier = Modifier.*drawBehind* **{** drawLine(  
 Color.Red,  
 *Offset*(0f, size.height),  
 *Offset*(size.width, size.height),  
 5f  
 )  
 **}** )  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun CustomBottomBar() {  
 val context = *LocalContext*.current  
 TopAppBar(  
 title = **{** Row(  
 verticalAlignment = Alignment.CenterVertically, horizontalArrangement =  
 Arrangement.SpaceBetween, modifier = Modifier  
 .*fillMaxWidth*()  
 .*padding*(  
 end = 50  
 .*dp* )  
 ) **{** IconButton(onClick = **{** val intent = Intent(context, Profilep::class.*java*)  
 context.startActivity(intent) **}**) **{** Icon(  
 Icons.Filled.*Person*, contentDescription = "", modifier = Modifier  
 .*size*(30.*dp*)  
 )  
 **}** IconButton(onClick = **{** val intent = Intent(context, About::class.*java*)  
 context.startActivity(intent) **}**) **{** Icon(  
 Icons.Filled.*Info*, contentDescription = "", modifier = Modifier  
 .*size*(30.*dp*)  
 )  
 **}** IconButton(onClick = **{** val intent = Intent(context, HomePage::class.*java*)  
 context.startActivity(intent)  
  
 **}**) **{** Icon(  
 Icons.Filled.*Home*, contentDescription = "", modifier = Modifier  
 .*size*(30.*dp*)  
 )  
 **}  
 }  
 }**,  
 modifier = Modifier.*drawBehind* **{** drawLine(  
 Color.Red,  
 *Offset*(0f, size.height),  
 *Offset*(size.width, size.height),  
 5f  
 )  
 **}** )  
}

Login Page

package com.example.bloodbankapp  
  
import android.content.Intent  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
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.text.KeyboardOptions  
import androidx.compose.material.icons.Icons  
import androidx.compose.material.icons.filled.*Check*import androidx.compose.material.icons.filled.*Info*import androidx.compose.material3.Button  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.Icon  
import androidx.compose.material3.IconButton  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextField  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.getValue  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.runtime.saveable.rememberSaveable  
import androidx.compose.runtime.setValue  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.platform.*LocalContext*import androidx.compose.ui.text.input.KeyboardType  
import androidx.compose.ui.text.input.PasswordVisualTransformation  
import androidx.compose.ui.text.input.VisualTransformation  
import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class LoginPage : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.error  
 ) **{** Login()  
 **}  
 }  
 }** }  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun Login()  
{  
 val context = *LocalContext*.current  
 Column(modifier=Modifier.*padding*(20.*dp*), verticalArrangement = Arrangement.Center,  
 horizontalAlignment = Alignment.CenterHorizontally) **{** *//Text("20BCE1389 K Niranjana")* Spacer(modifier = Modifier.*height*(15.*dp*))  
 Text("Login", fontSize = 40.*sp*, textAlign = TextAlign.Center)  
 var un by remember **{** *mutableStateOf*("")  
 **}** Spacer(modifier = Modifier.*height*(50.*dp*))  
  
 TextField(value = un, onValueChange = **{** un = **it }**, label = **{** Text("Username") **}**)  
 Spacer(modifier = Modifier.*height*(15.*dp*))  
  
 var password by rememberSaveable **{** *mutableStateOf*("") **}** var passwordVisible by rememberSaveable **{** *mutableStateOf*(false) **}** TextField(  
 value = password,  
 onValueChange = **{** password = **it }**,  
 label = **{** Text("Password") **}**,  
 singleLine = true,  
 placeholder = **{** Text("Password") **}**,  
 visualTransformation = if (passwordVisible) VisualTransformation.None else PasswordVisualTransformation(),  
 keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Password),  
 trailingIcon = **{** val image = if (passwordVisible)  
 Icons.Filled.*Info* else Icons.Filled.*Check* val description = if (passwordVisible) "Hide password" else "Show password"  
  
 IconButton(onClick = **{** passwordVisible = !passwordVisible **}**) **{** Icon(imageVector = image, description)  
 **}  
 }** )  
  
  
  
 Spacer(modifier = Modifier.*height*(30.*dp*))  
  
 Button(onClick=**{** val intent = Intent(context, HomePage::class.*java*)  
 context.startActivity(intent)  
 **}**)  
 **{** Text("Login Now")  
 **}** Spacer(modifier = Modifier.*height*(30.*dp*))  
  
  
  
 Text("New User?")  
  
 Spacer(modifier = Modifier.*height*(30.*dp*))  
  
 Row() **{** Button(onClick = **{** *// val context = LocalContext.current* val intent = Intent(context, SignPage::class.*java*)  
 context.startActivity(intent)  
 **}**) **{** Text("Sign up")  
 **}** Text(" OR ")  
 Button(onClick = **{** *// val context = LocalContext.current* val intent = Intent(context, HomePage::class.*java*)  
 context.startActivity(intent)**}**) **{** Text("Login as Guest")  
 **}  
  
 }  
 }**}

Sign Up Page

package com.example.bloodbankapp  
  
import android.content.Intent  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Column  
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.text.KeyboardOptions  
import androidx.compose.material3.Button  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextField  
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.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.platform.*LocalContext*import androidx.compose.ui.text.input.KeyboardType  
import androidx.compose.ui.text.input.PasswordVisualTransformation  
import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class SignPage : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.error  
 ) **{** Sign()  
 **}  
 }  
 }** }  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun Sign()  
{  
 val context = *LocalContext*.current  
 Column(modifier=Modifier.*padding*(20.*dp*), verticalArrangement = Arrangement.Center,  
 horizontalAlignment = Alignment.CenterHorizontally) **{** Spacer(modifier = Modifier.*height*(15.*dp*))  
 Text("Sign Up", fontSize = 40.*sp*, textAlign = TextAlign.Center)  
  
 Spacer(modifier = Modifier.*height*(50.*dp*))  
  
 var un by remember **{** *mutableStateOf*("")  
 **}** var pw by remember **{** *mutableStateOf*("")  
 **}** var cpw by remember **{** *mutableStateOf*("")  
 **}** var pno by remember **{** *mutableStateOf*("")  
 **}** TextField(value = un, onValueChange = **{** un = **it }**, label = **{** Text("Username") **}**)  
 Spacer(modifier = Modifier.*height*(15.*dp*))  
  
 TextField(value = pw, onValueChange = **{**pw=**it}**, label = **{** Text("Password") **}**,visualTransformation = PasswordVisualTransformation())  
 TextField(value = cpw, onValueChange = **{**cpw=**it}**, label = **{** Text("Confirm Password") **}**,visualTransformation = PasswordVisualTransformation())  
  
 Spacer(modifier = Modifier.*height*(15.*dp*))  
  
 TextField(value=pno, onValueChange=**{**pno=**it}**,label=**{**Text("Phone No. ")**}**,keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Number))  
  
  
 Spacer(modifier = Modifier.*height*(50.*dp*))  
  
 var flag by remember**{** *mutableStateOf*(false) **}** var otp by remember**{***mutableStateOf*("")**}** Button(onClick=**{** flag=!flag  
  
 **}**)  
 **{** Text(text = "Generate OTP")  
 **}** if(flag)  
 {  
 Text("Succesfully sent to your number!")  
 TextField(value =otp , onValueChange = **{**otp=**it}**,label=**{**Text("Enter OTP")**}** ,keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Number))  
 Button(onClick=**{** val intent = Intent(context, LoginPage::class.*java*)  
 context.startActivity(intent)  
 **}**)  
 **{** Text("Sign Up!")  
 **}** }  
  
  
  
 **}**}

Donor List

package com.example.bloodbankapp  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.width  
import androidx.compose.foundation.lazy.LazyColumn  
import androidx.compose.material3.Card  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.platform.*LocalConfiguration*import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class Donorlist : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.error  
 ) **{** Donor()  
 **}  
 }  
 }** }  
}  
  
data class Don(  
 val id : Int,  
 val name:String,  
 val type: String  
)  
  
@Composable  
fun Donor(){  
  
 Column()**{** Spacer(modifier=Modifier.*height*(20.*dp*))  
 Text("List of Available Donors",fontSize=30.*sp*)  
 Spacer(modifier=Modifier.*height*(40.*dp*))  
 LazyColumn(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
 **{** item()  
 **{** Card(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))**{** Text("1")  
 Text("Name ABC")  
 Text("Blood Type : A")  
 Text("+91 1234567984")  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** item()  
 **{** Card(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))**{** Text("2")  
 Text("Name XYZ")  
 Text("Blood Type : A")  
 Text("+91 1234567984")  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}  
 }  
 }**}

Donation Form

package com.example.bloodbankapp  
  
import android.content.Intent  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
*//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.width  
import androidx.compose.material3.Button  
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.runtime.\*  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.platform.*LocalConfiguration*import androidx.compose.ui.platform.*LocalContext*import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class Donation : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.background  
 ) **{** FormPage()  
 **}  
 }  
 }** }  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun FormPage(  
) {  
 val context = *LocalContext*.current  
 var fn by remember**{** *mutableStateOf*("")  
 **}** var ln by remember**{** *mutableStateOf*("")  
 **}** var age by remember**{** *mutableStateOf*("")  
 **}** var add by remember**{** *mutableStateOf*("")  
 **}** var pno by remember**{** *mutableStateOf*("")  
 **}** var type by remember**{** *mutableStateOf*("")  
 **}** Column(modifier=Modifier.*padding*(20.*dp*), verticalArrangement = Arrangement.Center) **{** Text("Blood Donation Form", fontSize = 30.*sp*, textAlign = TextAlign.Center)  
  
 Row() **{** OutlinedTextField(value = fn, onValueChange = **{** fn = **it }**,label=**{**Text("First Name")**}**,modifier=Modifier.*width*(  
 *LocalConfiguration*.current.screenWidthDp.*dp*/2f))  
  
 Spacer(modifier=Modifier.*width*(20.*dp*))  
  
 OutlinedTextField(value = ln, onValueChange = **{** ln = **it }**,label=**{**Text("Last Name")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*/2f))  
 **}** Spacer(modifier=Modifier.*height*(20.*dp*))  
 OutlinedTextField(value = age, onValueChange = **{**age=**it}**,label=**{**Text("Age")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 OutlinedTextField(value=pno, onValueChange = **{**pno=**it}**,label=**{**Text("Phone No")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 OutlinedTextField(value = add, onValueChange =**{**add=**it}** ,label=**{**Text("Address")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*).*height*(150.*dp*))  
  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
  
 OutlinedTextField(value = type, onValueChange =**{**type=**it}** ,label=**{**Text("Blood Type")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
  
 Row(horizontalArrangement = Arrangement.Center)  
 **{** Button(onClick=**{** val intent = Intent(context, HomePage::class.*java*)  
 context.startActivity(intent)  
 **}**)**{** Text("Go Back")  
 **}** Spacer(modifier=Modifier.*width*(100.*dp*))  
 Button(onClick=**{** val intent = Intent(context, Blood::class.*java*)  
 context.startActivity(intent)  
 **}**)**{** Text("Submit")  
 **}  
 }  
 }**}

Requests List

package com.example.bloodbankapp  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.width  
import androidx.compose.foundation.lazy.LazyColumn  
import androidx.compose.material3.Card  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.platform.*LocalConfiguration*import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class Requestlist : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.error  
 ) **{** Req()  
 **}  
 }  
 }** }  
}  
  
data class Donn(  
 val id : Int,  
 val name:String,  
 val type: String  
)  
  
@Composable  
fun Req(){  
  
 Column()**{** Spacer(modifier=Modifier.*height*(20.*dp*))  
 Text("Pending requests",fontSize=30.*sp*)  
 Spacer(modifier=Modifier.*height*(40.*dp*))  
 LazyColumn(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
 **{** item()  
 **{** Card(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))**{** Text("1")  
 Text("Name ABC")  
 Text("Blood Type : A")  
 Text("+91 1234567984")  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** item()  
 **{** Card(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))**{** Text("2")  
 Text("Name XYZ")  
 Text("Blood Type : A")  
 Text("+91 1234567984")  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** item()  
 **{** Card(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))**{** Text("3")  
 Text("Name XYZ")  
 Text("Blood Type : B+")  
 Text("+91 1234567984")  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}** Spacer(modifier=Modifier.*height*(20.*dp*))  
 **}  
 }  
 }**}

Requests Form

package com.example.bloodbankapp  
  
*//import androidx.compose.foundation.gestures.ModifierLocalScrollableContainerProvider.value*import android.app.DatePickerDialog  
import android.content.Intent  
import android.os.Bundle  
import android.widget.DatePicker  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
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.material3.Button  
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.runtime.\*  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.platform.*LocalConfiguration*import androidx.compose.ui.platform.*LocalContext*import androidx.compose.ui.text.style.TextAlign  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
import java.util.Calendar  
import java.util.Date  
  
class Requests : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.background  
 ) **{** FormReq()  
 **}  
 }  
 }** }  
}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun FormReq(  
) {  
 val context = *LocalContext*.current  
 var fn by remember**{** *mutableStateOf*("")  
 **}** var ln by remember**{** *mutableStateOf*("")  
 **}** var age by remember**{** *mutableStateOf*("")  
 **}** var add by remember**{** *mutableStateOf*("")  
 **}** var pno by remember**{** *mutableStateOf*("")  
 **}** var type by remember**{** *mutableStateOf*("")  
 **}** Column(modifier=Modifier.*padding*(20.*dp*), verticalArrangement = Arrangement.Center) **{** Spacer(modifier=Modifier.*height*(20.*dp*))  
 Text("Request Form", fontSize = 30.*sp*, textAlign = TextAlign.Center)  
  
 Row() **{** OutlinedTextField(value = fn, onValueChange = **{** fn = **it }**,label=**{**Text("First Name")**}**,modifier=Modifier.*width*(  
 *LocalConfiguration*.current.screenWidthDp.*dp*/2f))  
  
 Spacer(modifier=Modifier.*width*(20.*dp*))  
  
 OutlinedTextField(value = ln, onValueChange = **{** ln = **it }**,label=**{**Text("Last Name")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*/2f))  
 **}** Spacer(modifier=Modifier.*height*(20.*dp*))  
 OutlinedTextField(value = age, onValueChange = **{**age=**it}**,label=**{**Text("Age")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
 OutlinedTextField(value=pno, onValueChange = **{**pno=**it}**,label=**{**Text("Phone No")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
 *//Spacer(modifier=Modifier.height(-0.dp))* Spacer(modifier=Modifier.*height*(20.*dp*))  
  
 val mContext = *LocalContext*.current  
 val mYear: Int  
 val mMonth: Int  
 val mDay: Int  
 val mCalendar = Calendar.getInstance()  
 mYear = mCalendar.get(Calendar.*YEAR*)  
 mMonth = mCalendar.get(Calendar.*MONTH*)  
 mDay = mCalendar.get(Calendar.*DAY\_OF\_MONTH*)  
  
 mCalendar.*time* = Date()  
 val mDate = remember **{** *mutableStateOf*("") **}** val mDatePickerDialog = DatePickerDialog(  
 mContext,  
 **{** \_: DatePicker, mYear: Int, mMonth: Int, mDayOfMonth: Int **->** mDate.value = "$mDayOfMonth/${mMonth+1}/$mYear"  
 **}**, mYear, mMonth, mDay  
 )  
  
 Row() **{** Button(onClick = **{** mDatePickerDialog.show()  
 **}** ) **{** Text(text = "Date for Request", color = Color.White)  
 **}** Spacer(modifier = Modifier.*size*(20.*dp*))  
 Text(text = " : ${mDate.value}", fontSize =20.*sp*, textAlign = TextAlign.Center)  
 **}** OutlinedTextField(value = type, onValueChange =**{**type=**it}** ,label=**{**Text("Blood Type")**}** ,modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
  
 Spacer(modifier=Modifier.*height*(20.*dp*))  
  
 Row(horizontalArrangement = Arrangement.Center)  
 **{** Button(onClick=**{** val intent = Intent(context, HomePage::class.*java*)  
 context.startActivity(intent)  
 **}**)**{** Text("Go Back")  
 **}** Spacer(modifier=Modifier.*width*(100.*dp*))  
 Button(onClick=**{** val intent = Intent(context, Blood::class.*java*)  
 context.startActivity(intent)  
 **}**)**{** Text("Submit")  
 **}  
 }  
 }**}

Profile

package com.example.bloodbankapp  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.width  
import androidx.compose.foundation.lazy.LazyColumn  
import androidx.compose.material3.Card  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Scaffold  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.platform.*LocalConfiguration*import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class Profilep : ComponentActivity() {  
 @OptIn(ExperimentalMaterial3Api::class)  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.errorContainer  
 ) **{** Scaffold(  
 topBar = **{** CustomTopBar() **}**,  
 content = **{** Profilee() **}**,  
 bottomBar = **{** CustomBottomBar()**}**)  
  
 **}  
 }  
 }** }  
}  
  
@Composable  
fun Profilee()  
{  
 Column(verticalArrangement = Arrangement.Top, horizontalAlignment = Alignment.CenterHorizontally)  
 **{** Spacer(modifier=Modifier.*height*(150.*dp*))  
 Text("Profile", fontSize = 40.*sp*)  
 Spacer(modifier=Modifier.*height*(50.*dp*))  
 Text("Guest 101")  
 Text(" No Phone Number")  
 Text(" Address")  
 Text("No. of times donated : x")  
  
 Spacer(modifier=Modifier.*height*(50.*dp*))  
  
 Text("Current Donations :", fontSize = 25.*sp*)  
  
 Spacer(modifier=Modifier.*height*(30.*dp*))  
  
 LazyColumn(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))  
 **{** item()  
 **{** Card(modifier=Modifier.*width*(*LocalConfiguration*.current.screenWidthDp.*dp*))**{** Text("1")  
 Text("Sample")  
 Text("Blood Type : A")  
 Text("+91 1234567984")  
 **}  
 }  
 }  
 }**}

About

package com.example.bloodbankapp  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.layout.Column  
import androidx.compose.foundation.layout.Spacer  
import androidx.compose.foundation.layout.fillMaxSize  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.size  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.MaterialTheme  
import androidx.compose.material3.Scaffold  
import androidx.compose.material3.Surface  
import androidx.compose.material3.Text  
import androidx.compose.runtime.Composable  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.bloodbankapp.ui.theme.BloodBankAppTheme  
  
class About : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** BloodBankAppTheme **{** *// A surface container using the 'background' color from the theme* Surface(  
 modifier = Modifier.*fillMaxSize*(),  
 color = MaterialTheme.colorScheme.background  
 ) **{** *// Greeting()* CustomScaffold2()  
 **}  
 }  
 }** }  
}  
  
@Composable  
fun Greeting() {  
 Column(horizontalAlignment = Alignment.CenterHorizontally)  
 **{** Spacer(modifier=Modifier.*height*(100.*dp*))  
 Image(painter = painterResource(id = R.drawable.*bbank*),  
 contentDescription = "Logo",  
 modifier = Modifier  
 .*size*(300.*dp*))  
 Text("About Blood Bank", fontSize = 30.*sp*)  
 Spacer(modifier=Modifier.*height*(40.*dp*))  
 Text("This app is made for people who want to donate blood for a good cause. This app has " +  
 "only been partially made as of now and would be completed soon")  
  
 Text("By K Niranjana")  
  
 **}**}  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun CustomScaffold2() {  
 Scaffold(  
 topBar = **{** CustomTopBar() **}**,  
 content = **{** Greeting() **}**,  
 bottomBar = **{** CustomBottomBar()**}** )  
}