## SMARTBRIDGE EXTERNSHIP

## ANDROID DEVELOPMENT WITH KOTLIN

## ASSIGNMENT WEEK 2

## **BLOOD BANK APP**

package com.shrimadbhagwat.bloodbank
import android.content.Intent
import android.os.Bundle
import android.widget.Toast
import androidx.activity.ComponentActivity
import and roidx.activity.compose.setContent
import androidx.compose.foundation.Image
import androidx.compose.foundation.border
import androidx.compose.foundation.layout.*
import and roidx.compose.foundation.shape.RoundedCornerShape
import and roidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.*
import androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.Scaffold
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
import androidx.compose.material3.TextFieldDefaults
import androidx.compose.material3.TopAppBar
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.draw.paint
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.graphics.Shadow
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.platform. <i>LocalContext</i>
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.ui.window.Dialog
import androidx.core.content.ContextCompat.startActivity

```
override fun onCreate(savedInstanceState: Bundle?) {
   super.onCreate(savedInstanceState)
   setContent {
      BloodBankApp()
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun BloodBankApp() {
 var username by remember { mutableStateOf("") }
 var password by remember { mutableStateOf("") }
 var blooddonation by remember { mutableStateOf("") }
 var applicationContext = LocalContext.current
 Column(
   modifier = Modifier.fillMaxSize(),
   verticalArrangement = Arrangement.Center,
   horizontalAlignment = Alignment.CenterHorizontally
 ) {
    Box(modifier = Modifier.padding(40.dp)) {
      Column() {
          painter = painterResource(id = R.drawable.blood),
            .width(80.dp)
            .height(80.dp),
          alignment = Alignment.Center
        Spacer(modifier = Modifier.height(16.dp))
          text = "Blood Bank", fontSize = 30.sp, style = TextStyle(
            color = Color.Black,
            background = Color. White,
            textAlign = TextAlign.Center
          text = "Blood Donation Campaign", fontSize = 20.sp, style = TextStyle(
            color = Color.Black,
            background = Color. White,
            textAlign = TextAlign.Center
```

```
Row() {
    onValueChange = { username = it },
    colors = TextFieldDefaults.textFieldColors(containerColor = Color(0xfffbfafb)),
    placeholder = { Text("Username", color = Color.Gray) },
      .width(320.dp)
      .height(50.dp)
      .border(1.dp, Color.LightGray)
Spacer(modifier = Modifier.height(16.dp))
Row() {
    value = password,
    onValueChange = { password = it },
    colors = TextFieldDefaults.textFieldColors(containerColor = Color(Oxfffbfafb)),
    placeholder = { Text("Password", color = Color.Gray) },
      .width(320.dp)
      .height(50.dp)
      .border(1.dp, Color.LightGray)
Row(modifier = Modifier.padding(24.dp)) {
  Column() {
         Toast.makeText(applicationContext, "Sign Up", Toast.LENGTH_SHORT).show()
      colors = ButtonDefaults.buttonColors(Color.Red),
      shape = RoundedCornerShape(10.dp),
         .padding(all = 5.dp)
         .width(120.dp)
    ) {
```

```
fontWeight = FontWeight.Bold,
             color = Color.White,
      Spacer(modifier = Modifier.width(16.dp))
      Column() {
             Toast.makeText(applicationContext, "Sign In", Toast.LENGTH_SHORT).show()
             val intent = Intent(applicationContext, HomeActivity::class.java)
             intent.putExtra("username",username)
             intent.putExtra("password",password)
             applicationContext.startActivity(intent)
           colors = ButtonDefaults.buttonColors(Color.Red),
           shape = RoundedCornerShape(10.dp),
             .padding(all = 5.dp)
             .width(120.dp)
        ) {
             fontWeight = FontWeight.Bold,
             color = Color.White,
package com. shrimad bhagwat. bloodbank
import android.app.DatePickerDialog
import android.content.Intent
import android.widget.Toast
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.lmage
import androidx.compose.foundation.background
```

```
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.*
import androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.RadioButton
import androidx.compose.material3.Scaffold
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
import androidx.compose.material3.TextFieldDefaults
import androidx.compose.material3.TopAppBar
import androidx.compose.runtime.*
import androidx.compose.runtime.saveable.rememberSaveable
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.graphics.Shadow
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
mport androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.ui.window.Dialog
mport androidx.core.content.ContextCompat.startActivity
class HomeActivity : ComponentActivity() {
 override fun onCreate(savedInstanceState: Bundle?) {
    super.onCreate(savedInstanceState)
   setContent {
      var password = intent.getStringExtra("password")
@OptIn(Experimental Material 3 Api::class)
@Composable
fun App(intent: Intent) {
 var username = intent.getStringExtra("username")
  var password = intent.getStringExtra("password")
```

```
TopAppBar(
            fontWeight = FontWeight.Bold,
            modifier = Modifier.padding(all = 10.dp)
                                  "+username.toString(),
            modifier = Modifier.padding(all = 10.dp)
          .drawBehind {
          .background(Color(OxFF85FBFF))
          .height(56.dp)
   content = { padding ->
      Column(modifier = Modifier.padding(padding)) {
@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun BloodForm() {
```

```
var gender by remember {
var bloodgroup by remember {
var date by remember {
var time by remember {
val applicationContext = LocalContext.current
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("") }
    mDate.value = "$mDayOfMonth-${mMonth + 1}-$mYear'
  }, mYear, mMonth, mDay
  modifier = Modifier.padding(16.dp),
  horizontalAlignment = Alignment.CenterHorizontally
    onValueChange = { name = it },
    colors = TextFieldDefaults.textFieldColors(containerColor = Color(Oxfffbfafb)),
    placeholder = { Text("Name", color = Color.Gray) },
    modifier = Modifier
       .height(50.dp)
      .border(1.dp, Color.LightGray)
  Spacer(modifier = Modifier.height(16.dp))
  TextField(
    onValueChange = { age = it },
    placeholder = { Text("Age", color = Color.Gray) },
```

```
.height(50.dp)
Spacer(modifier = Modifier.height(16.dp))
  onValueChange = { mobile = it },
  keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Number),
    .width(320.dp)
    .height(50.dp)
    .border(1.dp, Color.LightGray)
Spacer(modifier = Modifier.height(16.dp))
  modifier = Modifier.padding(vertical = 8.dp),
  verticalAlignment = Alignment.CenterVertically
    onClick = { gender = "male"}
  Text("Male", modifier = Modifier.padding(start = 8.dp))
    onClick = { gender = "female" }
  Text("Female", modifier = Modifier.padding(start = 8.dp))
Spacer(modifier = Modifier.height(16.dp))
  value = bloodgroup,
  onValueChange = { bloodgroup = it },
  placeholder = { Text("Blood Group", color = Color.Gray) },
    .width(320.dp)
    .height(50.dp)
    .border(1.dp, Color.LightGray)
Spacer(modifier = Modifier.height(16.dp))
  mDatePickerDialog.show()
  curDate = mDay.toString() + "/" + mMonth.toString() + "/" + mYear.toString()
  shape = RoundedCornerShape(10.dp),
    .padding(all = 5.dp)
    .width(120.dp)
```

```
Spacer(modifier = Modifier.height(16.dp))
    Spacer(modifier = Modifier.height(32.dp))
        val intent = Intent(applicationContext, DetailActivity::class.java)
        intent.putExtra("age",age)
        intent.putExtra("mobile",mobile)
        intent.putExtra("gender",gender)
        intent.putExtra("bloodgroup",bloodgroup)
        applicationContext.startActivity(intent)
      }, colors = ButtonDefaults.buttonColors(Color.Red),
      shape = RoundedCornerShape(10.dp),
        .padding(all = 5.dp)
import android.app.DatePickerDialog
import android.content.Intent
import android.widget.DatePicker
import android.widget.TimePicker
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.lmage
import androidx.compose.foundation.background
import androidx.compose.foundation.border
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.*
mport androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.RadioButton
import androidx.compose.material3.Scaffold
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
import androidx.compose.material3.TextFieldDefaults
import androidx.compose.material3.TopAppBar
import androidx.compose.runtime.saveable.rememberSaveable
```

```
import androidx.compose.ui.Alignment
import androidx.compose.ui.draw.drawBehind
import androidx.compose.ui.draw.paint
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.graphics.Shadow
import androidx.compose.ui.platform.LocalContext
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.ui.window.Dialog
import java.util.Calendar
class DetailActivity : ComponentActivity() {
 override fun onCreate(savedInstanceState: Bundle?) {
   setContent {
@Composable
fun DetailsAct(intent: Intent) {
 var name = intent.getStringExtra("name")
 var age = intent.getStringExtra("age")
 var mobile = intent.getStringExtra("mobile")
 var gender = intent.getStringExtra("gender")
 var bloodgroup = intent.getStringExtra("bloodgroup")
 var date = intent.getStringExtra("date")
   modifier = Modifier.padding(16.dp),
```

```
horizontalAlignment = Alignment.CenterHorizontally
) {
    Text(text = "Details")
    Spacer(modifier = Modifier.height(32.dp))
    Text(text = name.toString())
    Spacer(modifier = Modifier.height(16.dp))
    Text(text = age.toString())
    Spacer(modifier = Modifier.height(16.dp))
    Text(text = mobile.toString())
    Spacer(modifier = Modifier.height(16.dp))
    Text(text = gender.toString())
    Spacer(modifier = Modifier.height(16.dp))
    Text(text = bloodgroup.toString())
    Spacer(modifier = Modifier.height(16.dp))
    Text(text = date.toString())
}
```