

WEEK-2 ASSIGNMENT

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COURSE : Android Application Development with Kotlin

MainActivity.kt file

```
package com.example.vit_20bce2927_bloodbank

import android.os.Bundle
import android.view.WindowManager
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Surface
import androidx.compose.ui.Modifier
import com.example.vit_20bce2927_bloodbank.App.BloodBankApp
import com.example.vit_20bce2927_bloodbank.ui.theme.VIT_20BCE2927_BloodBankTheme

class MainActivity : ComponentActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)

        window.setSoftInputMode(WindowManager.LayoutParams.SOFT_INPUT_ADJUST_RESIZE)

        setContent {
            VIT_20BCE2927_BloodBankTheme {
                // A surface container using the 'background' color from
                the theme
                Surface(
                    modifier = Modifier.fillMaxSize(),
                    color = MaterialTheme.colorScheme.background
                ) {
                    BloodBankApp()
                }
            }
        }
    }
}
```

BloodBankApp.kt file

```
package com.example.vit_20bce2927_bloodbank.App

import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.runtime.Composable
import com.example.vit_20bce2927_bloodbank.composable.LoginPage

@Composable
fun BloodBankApp() {
    // Signup()
    LoginPage()
}
```

SignupPage.kt file

```
package com.example.vit_20bce2927_bloodbank.composable

import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Box
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.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.heightIn
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.Divider
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.Icon
import androidx.compose.material3.IconButton
import androidx.compose.material3.OutlinedTextField
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
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.res.painterResource
import androidx.compose.ui.res.stringResource
import androidx.compose.ui.text.TextStyle
import androidx.compose.ui.text.font.FontStyle
import androidx.compose.ui.text.font.FontWeight
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.vit_20bce2927_bloodbank.R
import com.example.vit_20bce2927_bloodbank.ui.theme.primaryColor

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun Signup() {
    val namevalue = remember {
        mutableStateOf("")
    }
    val passwordvalue = remember {
        mutableStateOf("")
    }
    val passwordvisibility = remember { mutableStateOf(false) }
    val emailValue = remember { mutableStateOf("") }
    val confirmPassword = remember { mutableStateOf("") }
    val confirmpasswordvisibility = remember { mutableStateOf(false) }

    Box(modifier = Modifier.fillMaxSize(), contentAlignment =
Alignment.BottomCenter) {
        Column(
            verticalArrangement = Arrangement.Center,
            horizontalAlignment = Alignment.CenterHorizontally,
            modifier = Modifier
                .fillMaxSize()
                .background(Color.White)
                .padding(all = 30.dp)
        ) {

            Image(painter = painterResource(id = R.drawable.blood) ,
contentDescription = "" )

            Spacer(modifier = Modifier.height(10.dp))
            Text(
                text = "Red Drop Blood Bank",
                modifier = Modifier
                    .fillMaxWidth()
                    .heightIn(),
                style = TextStyle(
                    fontSize = 30.sp,
                    fontWeight = FontWeight.Bold,
                    fontStyle = FontStyle.Normal),
                color = Color.Red ,
                textAlign = TextAlign.Center
            )

            Spacer(modifier = Modifier.height(20.dp))

            OutlinedTextField(
                value =namevalue.value, onValueChange = { namevalue.value =
it },
                label = { Text(text = "Name",color = Color.Gray) },
                placeholder = { Text(text = "Name",color = Color.Gray) },
                modifier = Modifier.fillMaxWidth(),
                singleLine = true,
                keyboardOptions = KeyboardOptions(keyboardType =
KeyboardType.Email)
            )

            OutlinedTextField(

```

```

        value =emailValue.value, onChange = { emailValue.value
= it },
        label = { Text(text = "Username",color = Color.Gray) },
        placeholder = { Text(text = "Email",color = Color.Gray)},
        modifier = Modifier.fillMaxWidth(),
        singleLine = true,
        keyboardOptions = KeyboardOptions(keyboardType =
KeyboardType.Email)
    )

    Spacer(modifier = Modifier.height(10.dp))
    OutlinedTextField(
        value = passwordvalue.value, onChange = {
passwordvalue.value = it },
        label = { Text(text = "Password",color = Color.Gray) },
        modifier = Modifier.fillMaxWidth(),
        trailingIcon = {
            IconButton(onClick = { passwordvisibility.value =
!passwordvisibility.value }) {
                Icon(painter = painterResource(id =
R.drawable.password_image),
                    contentDescription ="" ,
                    tint = if (passwordvisibility.value)
primaryColor else Color.Gray)
            }
        },
        placeholder = { Text(text = "Password",color =
Color.Gray)},
        visualTransformation = if (passwordvisibility.value)
VisualTransformation.None
        else PasswordVisualTransformation(),
        keyboardOptions = KeyboardOptions(keyboardType =
KeyboardType.Password)
    )
    Spacer(modifier = Modifier.height(20.dp))

    OutlinedTextField(
        value =confirmPassword.value, onChange = {
confirmPassword.value = it },
        label = { Text(text = "confirm password",color =
Color.Gray) },
        placeholder = { Text(text = "confirm password",color =
Color.Gray)},
        modifier = Modifier.fillMaxWidth(),
        singleLine = true,
        trailingIcon = {
            IconButton(onClick = {
confirmpasswordvisibility.value=! confirmpasswordvisibility.value }) {
                Icon(painter = painterResource(id =
R.drawable.password_image),
                    contentDescription ="" ,
                    tint = if (passwordvisibility.value)
primaryColor else Color.Gray)
            }
        },
        visualTransformation = if (confirmpasswordvisibility.value)
VisualTransformation.None
        else PasswordVisualTransformation(),

```

```

        keyboardOptions = KeyboardOptions(keyboardType =
KeyboardType.Password)
    )

    Spacer(modifier = Modifier.height(20.dp))

    Button(
        onClick = { /*TODO*/ },
        colors = ButtonDefaults.buttonColors(Color.Red),
        modifier = Modifier
            .fillMaxWidth()
            .height(50.dp)
    ) {
        Text(text = "Sign Up", fontSize = 20.sp, color =
Color.White)
    }

    Spacer(modifier = Modifier.height(20.dp))

    Row(
        modifier = Modifier.fillMaxWidth(),
        verticalAlignment = Alignment.CenterVertically
    ) {

        Divider(
            modifier = Modifier
                .fillMaxWidth()
                .weight(1f),
            color = Color.Black,
            thickness = 1.dp
        )

        Text(
            modifier = Modifier.padding(8.dp),
            text = stringResource(R.string.or),
            fontSize = 18.sp,
            color = Color.Black
        )

        Divider(
            modifier = Modifier
                .fillMaxWidth()
                .weight(1f),
            color = Color.Black,
            thickness = 1.dp
        )
    }

    Spacer(modifier = Modifier.height(20.dp))

    Text(text = "Login Instead",
        modifier = Modifier.clickable { },
        color = Color.Black)

    Spacer(modifier = Modifier.height(20.dp))

}

```

```
}  
  
}
```

LoginPage.kt file

```
package com.example.vit_20bce2927_bloodbank.composable  
  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.background  
import androidx.compose.foundation.clickable  
import androidx.compose.foundation.layout.Arrangement  
import androidx.compose.foundation.layout.Box  
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.fillMaxWidth  
import androidx.compose.foundation.layout.height  
import androidx.compose.foundation.layout.heightIn  
import androidx.compose.foundation.layout.padding  
import androidx.compose.foundation.text.KeyboardOptions  
import androidx.compose.material3.Button  
import androidx.compose.material3.ButtonDefaults  
import androidx.compose.material3.Divider  
import androidx.compose.material3.OutlinedTextField  
import androidx.compose.material3.Text  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.Icon  
import androidx.compose.material3.IconButton  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.focus.FocusRequester  
import androidx.compose.ui.focus.focusRequester  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.res.stringResource  
import androidx.compose.ui.text.TextStyle  
import androidx.compose.ui.text.font.FontStyle  
import androidx.compose.ui.text.font.FontWeight  
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.tooling.preview.Preview  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import com.example.vit_20bce2927_bloodbank.R  
import  
com.example.vit_20bce2927_bloodbank.ui.theme.VIT_20BCE2927_BloodBankTheme  
import com.example.vit_20bce2927_bloodbank.ui.theme.primaryColor  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable
```



```

Icon(painter = painterResource(id =
R.drawable.password_image),
    contentDescription = "" ,
    tint = if (passwordvisibility.value
primaryColor else Color.Gray)

    },
    placeholder = { Text(text = "Password",color =
Color.Gray)},
    visualTransformation = if (passwordvisibility.value)
VisualTransformation.None
    else PasswordVisualTransformation(),
    keyboardOptions = KeyboardOptions(keyboardType =
KeyboardType.Password
    )
)
Spacer(modifier = Modifier.height(20.dp))

Button(
    onClick = { /*TODO*/ },
    colors = ButtonDefaults.buttonColors(Color.Red),
    modifier = Modifier
        .fillMaxWidth()
        .height(50.dp)
) {
    Text(text = "Login", fontSize = 20.sp, color = Color.White)
}
Spacer(modifier = Modifier.height(20.dp))

Row(
    modifier = Modifier.fillMaxWidth(),
    verticalAlignment = Alignment.CenterVertically
) {

    Divider(
        modifier = Modifier
            .fillMaxWidth()
            .weight(1f),
        color = Color.Black,
        thickness = 1.dp
    )

    Text(
        modifier = Modifier.padding(8.dp),
        text = stringResource(R.string.or),
        fontSize = 18.sp,
        color = Color.Black
    )

    Divider(
        modifier = Modifier
            .fillMaxWidth()
            .weight(1f),
        color = Color.Black,
        thickness = 1.dp
    )
}

Spacer(modifier = Modifier.height(20.dp))

```



```
        Text(text = "Create an Account",
              color = Color.Black,
              modifier = Modifier.clickable {

        })

        Spacer(modifier = Modifier.height(20.dp))

    }

}

@Preview(showBackground = true)
@Composable
fun GreetingPreview() {
    VIT_20BCE2927_BloodBankTheme {
        LoginPage()
    }
}
```

4:39



Red Drop Blood Bank



Login

or

Create an Account

4:37



Red Drop Blood Bank



Sign Up

or

Login Instead