
MOBILE APPLICATION DEVELOPMENT USING KOTLIN

SMART BRIDGE- ANDROID APP DEVELOPMENT

ASSIGNMENT-4 REPORT

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Main Activity. KT

```
package com.example.food

import android.content.res.Resources.Theme
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import androidx.activity.compose.setContent
import androidx.compose.runtime.Composable
import androidx.compose.runtime.remember
import java.security.AccessController
import androidx.navigation.NavHostController
import androidx.navigation.compose.rememberNavController

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContent {
            FoodTheme()
        }
    }
}
```

```

    }}
@Composable
fun FoodTheme() {
    val navController: NavHostController = rememberNavController()
    SetupNavGraph(navController = navController)
}

```

HOME SCREEN.KT

```

package com.example.food

import androidx.compose.foundation.BorderStroke
import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.border
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.Column
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.padding
import androidx.compose.foundation.layout.size
import androidx.compose.foundation.layout.width
import androidx.compose.foundation.shape.CircleShape
import androidx.compose.foundation.text.KeyboardActions
import androidx.compose.material3.Button
import androidx.compose.material3.ExperimentalMaterial3Api
import androidx.compose.material3.MaterialTheme

```

```

import androidx.compose.material3.OutlinedTextField
import androidx.compose.material3.Scaffold
import androidx.compose.material3.Text
import androidx.compose.material3.TextField
import androidx.compose.material3.TopAppBar
import androidx.compose.material3.TopAppBarDefaults.topAppBarColors
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableIntStateOf
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.draw.clip
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import androidx.navigation.compose.rememberNavController

```

```

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun HomeScreen(
    navController: NavController
) {
    var username by remember { mutableStateOf("") }
    var password by remember { mutableStateOf("") }

    Column(
        modifier = Modifier
            .fillMaxSize()
            .padding(4.dp),
        horizontalAlignment = Alignment.CenterHorizontally
    ) {
        Spacer(modifier = Modifier.height(56.dp))

        Text(
            modifier =
            Modifier.background(color = Color.White),
            text = "Welcome to Food App",
            style = MaterialTheme.typography.bodyMedium.copy(
                fontSize = 30.sp,
                fontWeight = FontWeight.ExtraBold,
                fontFamily = FontFamily.Serif,
                color = Color.Blue)
        )

        Spacer(modifier = Modifier.height(26.dp))

        Image(
            painter = painterResource(id = R.drawable.img),
            contentDescription = null,
            contentScale = ContentScale.Crop,
            modifier = Modifier
                .size(250.dp)

```

```

        .border(
            BorderStroke(4.dp, Color.Black),
            CircleShape
        )
        .padding(4.dp)
        .clip(CircleShape)
    )

    Spacer(modifier = Modifier.height(26.dp))

    Text(
        modifier =
        Modifier.background(color = Color.White),
        text = "Login",
        style = MaterialTheme.typography.bodyMedium.copy(
            fontSize = 30.sp,
            fontWeight = FontWeight.ExtraBold,
            fontFamily = FontFamily.Serif,
            color = Color.Blue))

    Spacer(modifier = Modifier.height(26.dp))

    TextField(
        value = username,
        onChange = {
            username = it
        },
        label = { Text(text = "Username") },
        keyboardActions = KeyboardActions(
            onDone = {
                //Handle Login here
            }
        ),
        modifier = Modifier
            .width(270.dp)
            .height(60.dp)
            .background(color = Color.White)
    )

    Spacer(modifier = Modifier.height(26.dp))

    TextField(
        value = password,
        onChange = {
            password = it
        },
        label = { Text(text = "Password") },
        keyboardActions = KeyboardActions(
            onDone = {
                //Handle Login here
            }
        ),
        modifier = Modifier
            .width(270.dp)
            .height(60.dp)
            .background(color = Color.White)
    )

    Spacer(modifier = Modifier.height(66.dp))

```

```

        Button(onClick = {
            navController.navigate(route = Screen.HotelScreen.route)
        }) {
            Text(text = "Login",
                fontSize = 24.sp
            )
        }
    }

}

@Composable
@Preview(showBackground = true)
fun HomeScreenPreview() {
    HomeScreen(
        navController = rememberNavController()
    )
}

```

HOTELSCREEN.KT

```

package com.example.food

import androidx.compose.foundation.Image
import androidx.compose.foundation.background
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.Box
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.layout.width
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextDecoration
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import androidx.navigation.compose.rememberNavController

@Composable
fun HotelsScreen(
    navController: NavController
) {
    Column(
        modifier = Modifier
            .padding(25.dp)
            .fillMaxSize()
    ) {

```

```

Spacer(modifier = Modifier.height(6.dp))
Image(
    painter = painterResource(id = R.drawable.img_1),
    contentDescription = null,
    contentScale = ContentScale.Crop,
    modifier = Modifier
        .height(200.dp)
        .width(350.dp)
)

Spacer(modifier = Modifier.height(26.dp))

Text(
    text = "Click on the Hotel you like from the list of hotels
below : ",
    fontSize = 26.sp,
    lineHeight = 36.sp,
    fontFamily = FontFamily.Serif,
    fontWeight = FontWeight.Bold,
)

Spacer(modifier = Modifier.height(26.dp))
Text(
    text = "i. TAJ Hyderabad",
    fontSize = 26.sp,
    fontFamily = FontFamily.Serif,
    fontWeight = FontWeight.Bold,
    textDecoration = TextDecoration.Underline,
    modifier = Modifier
        .clickable {
            navController.navigate(route =
Screen.FooditemsScreen.route)
        }
)
Spacer(modifier = Modifier.height(26.dp))
Text(
    text = "ii. TAJ Vizag",
    fontSize = 26.sp,
    fontFamily = FontFamily.Serif,
    fontWeight = FontWeight.Bold,
    textDecoration = TextDecoration.Underline,
    modifier = Modifier
        .clickable {
            navController.navigate(route =
Screen.FooditemsScreen.route)
        }
)
Spacer(modifier = Modifier.height(26.dp))
Text(
    text = "ii. TAJ Vijayawada",
    fontSize = 26.sp,
    fontFamily = FontFamily.Serif,
    fontWeight = FontWeight.Bold,
    textDecoration = TextDecoration.Underline,
    modifier = Modifier
        .clickable {
            navController.navigate(route =
Screen.FooditemsScreen.route)
        }
)
Spacer(modifier = Modifier.height(26.dp))

```

```

        Text(
            text = "iii. TAJ Mumbai",
            fontSize = 26.sp,
            fontFamily = FontFamily.Serif,
            fontWeight = FontWeight.Bold,
            textDecoration = TextDecoration.Underline,
            modifier = Modifier
                .clickable {
                    navController.navigate(route =
Screen.FooditemsScreen.route)
                }
        )
        Spacer(modifier = Modifier.height(26.dp))
        Text(
            text = "iv. TAJ Chennai",
            fontSize = 26.sp,
            fontFamily = FontFamily.Serif,
            fontWeight = FontWeight.Bold,
            textDecoration = TextDecoration.Underline,
            modifier = Modifier
                .clickable {
                    navController.navigate(route =
Screen.FooditemsScreen.route)
                }
        )
        Spacer(modifier = Modifier.height(26.dp))
        Text(
            text = "v. TAJ Delhi",
            fontSize = 26.sp,
            fontFamily = FontFamily.Serif,
            fontWeight = FontWeight.Bold,
            textDecoration = TextDecoration.Underline,
            modifier = Modifier
                .clickable {
                    navController.navigate(route =
Screen.FooditemsScreen.route)
                }
        )
    }
}

@Composable
@Preview(showBackground = true)
fun HotelsScreenPreview() {
    HotelsScreen(
        navController = rememberNavController()
    )
}

```

NAVGRAPH.KT

```

package com.example.food

import androidx.compose.runtime.Composable
import androidx.navigation.NavController
import androidx.navigation.NavHostController
import androidx.navigation.compose.NavHost
import androidx.navigation.compose.composable

```

```

@Composable
fun SetupNavGraph(
    navController: NavHostController
){ NavHost(navController = navController,
    startDestination = Screen.HomeScreen.route){
    composable(
        route=Screen.HomeScreen.route
    ){
        HomeScreen(navController=navController)
    }
    composable(
        route=Screen.HotelScreen.route
    ){
        HotelsScreen(navController = navController)
    }
    composable(
        route=Screen.FooditemsScreen.route
    ){
        Fooditems(navController=navController)
    }
    composable(
        route=Screen.FoodPricesScreen.route
    ){
        FoodPrices(navController=navController)
    }
}
}

```

FOODITEMS.KT

```

package com.example.food

import androidx.compose.foundation.Image
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.Box
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.layout.width
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextDecoration
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import androidx.navigation.compose.rememberNavController

@Composable
fun Fooditems(

```



```

        navController: NavController
    ) {
        Column(
            modifier = Modifier
                .padding(25.dp)
                .fillMaxSize()
        ){
            Spacer(modifier = Modifier.height(6.dp))
            Image(
                painter = painterResource(id = R.drawable.img_3),
                contentDescription = null,
                contentScale = ContentScale.Crop,
                modifier = Modifier
                    .height(200.dp)
                    .width(350.dp)
            )

            Spacer(modifier = Modifier.height(26.dp))

            Text(
                text = "Click on the Food Items you like from the list of
hotels below : ",
                fontSize = 26.sp,
                lineHeight = 36.sp,
                fontFamily = FontFamily.Serif,
                fontWeight = FontWeight.Bold,
                modifier = Modifier
                    .clickable {
                        navController.navigate(route =
Screen.FoodPricesScreen.route)
                    }
            )

            Spacer(modifier = Modifier.height(26.dp))
            Text(
                text = "i. Chicken Biryani",
                fontSize = 26.sp,
                fontFamily = FontFamily.Serif,
                fontWeight = FontWeight.Bold,
                textDecoration = TextDecoration.Underline,
                modifier = Modifier
                    .clickable {
                        navController.navigate(route =
Screen.FoodPricesScreen.route)
                    }
            )

            Spacer(modifier = Modifier.height(26.dp))
            Text(
                text = "ii. Noodles ",
                fontSize = 26.sp,
                fontFamily = FontFamily.Serif,
                fontWeight = FontWeight.Bold,
                textDecoration = TextDecoration.Underline,
                modifier = Modifier
                    .clickable {
                        navController.navigate(route =
Screen.FoodPricesScreen.route)
                    }
            )

            Spacer(modifier = Modifier.height(26.dp))
            Text(

```

```

        text = "iii. Pizza",
        fontSize = 26.sp,
        fontFamily = FontFamily.Serif,
        fontWeight = FontWeight.Bold,
        textDecoration = TextDecoration.Underline,
        modifier = Modifier
            .clickable {
                navController.navigate(route =
Screen.FoodPricesScreen.route)
            }
    )
    Spacer(modifier = Modifier.height(26.dp))
    Text(
        text = "iv. Thums Up",
        fontSize = 26.sp,
        fontFamily = FontFamily.Serif,
        fontWeight = FontWeight.Bold,
        textDecoration = TextDecoration.Underline,
        modifier = Modifier
            .clickable {
                navController.navigate(route =
Screen.FoodPricesScreen.route)
            }
    )
    Spacer(modifier = Modifier.height(26.dp))
    Text(
        text = "v. French Fries",
        fontSize = 26.sp,
        fontFamily = FontFamily.Serif,
        fontWeight = FontWeight.Bold,
        textDecoration = TextDecoration.Underline,
        modifier = Modifier
            .clickable {
                navController.navigate(route =
Screen.FoodPricesScreen.route)
            }
    )
    Spacer(modifier = Modifier.height(26.dp))
    Text(
        text = "vi. Chicken Fried Rice",
        fontSize = 26.sp,
        fontFamily = FontFamily.Serif,
        fontWeight = FontWeight.Bold,
        textDecoration = TextDecoration.Underline,
        modifier = Modifier
            .clickable {
                navController.navigate(route =
Screen.FoodPricesScreen.route)
            }
    )
}
@Composable
@Preview(showBackground = true)
fun FooditemsPreview() {
    Fooditems(
        navController = rememberNavController()
    )
}

```

FOODPRICES.KT

```
package com.example.food

import androidx.compose.foundation.Image
import androidx.compose.foundation.clickable
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.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.width
import androidx.compose.material3.MaterialTheme
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.layout.ContentScale
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontFamily
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.text.style.TextDecoration
import androidx.compose.ui.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import androidx.navigation.compose.rememberNavController

@Composable
fun FoodPrices(
    navController: NavController
) {
    Column(modifier = Modifier
        .fillMaxSize()
        .padding(15.dp)) {

        Spacer(modifier = Modifier.padding(10.dp))

        Row(modifier = Modifier
            .fillMaxWidth() ,
            horizontalArrangement = Arrangement.SpaceEvenly) {
            Image(
                painter = painterResource(id = R.drawable.img_4),
                contentDescription = null,
                contentScale = ContentScale.Crop,
                modifier = Modifier
                    .height(150.dp)
                    .width(150.dp)
            )
            Image(
                painter = painterResource(id = R.drawable.img_5),
                contentDescription = null,
                contentScale = ContentScale.Crop,
                modifier = Modifier
                    .height(150.dp)
                    .width(150.dp)
            )
        }
    }
}
```

```

Spacer(modifier = Modifier.padding(15.dp))
Row (modifier= Modifier
    .fillMaxWidth() ,
    horizontalArrangement = Arrangement.SpaceEvenly){
    Text(
        text = "Rs.150",
        style = MaterialTheme.typography.bodyMedium.copy(
            fontSize = 30.sp,
            fontWeight = FontWeight.ExtraBold,
            fontFamily = FontFamily.Serif,
            color = Color.Black))
    Text(
        text = "Rs.80",
        style = MaterialTheme.typography.bodyMedium.copy(
            fontSize = 30.sp,
            fontWeight = FontWeight.ExtraBold,
            fontFamily = FontFamily.Serif,
            color = Color.Black))

}
Spacer(modifier = Modifier.padding(10.dp))

Row(modifier= Modifier
    .fillMaxWidth() ,
    horizontalArrangement = Arrangement.SpaceEvenly) {
    Image(
        painter = painterResource(id = R.drawable.img_6),
        contentDescription = null,
        contentScale = ContentScale.Crop,
        modifier = Modifier
            .height(150.dp)
            .width(150.dp)
    )
    Image(
        painter = painterResource(id = R.drawable.img_7),
        contentDescription = null,
        contentScale = ContentScale.Crop,
        modifier = Modifier
            .height(150.dp)
            .width(150.dp)
    )
}
Spacer(modifier = Modifier.padding(15.dp))
Row (modifier= Modifier
    .fillMaxWidth() ,
    horizontalArrangement = Arrangement.SpaceEvenly){
    Text(
        text = "Rs.120",
        style = MaterialTheme.typography.bodyMedium.copy(
            fontSize = 30.sp,
            fontWeight = FontWeight.ExtraBold,
            fontFamily = FontFamily.Serif,
            color = Color.Black))
    Text(
        text = "Rs.50",
        style = MaterialTheme.typography.bodyMedium.copy(
            fontSize = 30.sp,
            fontWeight = FontWeight.ExtraBold,
            fontFamily = FontFamily.Serif,
            color = Color.Black))

```

```

    }

    Spacer(modifier = Modifier.padding(10.dp))

    Row(modifier= Modifier
        .fillMaxWidth() ,
        horizontalArrangement = Arrangement.SpaceEvenly) {
        Image(
            painter = painterResource(id = R.drawable.img_8),
            contentDescription = null,
            contentScale = ContentScale.Crop,
            modifier = Modifier
                .height(150.dp)
                .width(150.dp)
        )
        Image(
            painter = painterResource(id = R.drawable.img_9),
            contentDescription = null,
            contentScale = ContentScale.Crop,
            modifier = Modifier
                .height(150.dp)
                .width(150.dp)
        )
    }
    Spacer(modifier = Modifier.padding(15.dp))
    Row (modifier= Modifier
        .fillMaxWidth() ,
        horizontalArrangement = Arrangement.SpaceEvenly){
        Text(
            text = "Rs.40",
            style = MaterialTheme.typography.bodyMedium.copy(
                fontSize = 30.sp,
                fontWeight = FontWeight.ExtraBold,
                fontFamily = FontFamily.Serif,
                color = Color.Black))
        Text(
            text = "Rs.70",
            style = MaterialTheme.typography.bodyMedium.copy(
                fontSize = 30.sp,
                fontWeight = FontWeight.ExtraBold,
                fontFamily = FontFamily.Serif,
                color = Color.Black))
    }

}

}}
@Composable
@Preview(showBackground = true)
fun FoodPricesScreenPreview() {
    FoodPrices(
        navController = rememberNavController()
    )
}

```

A circular collage of various healthy foods. In the center is a halved avocado. Surrounding it are several Brussels sprouts, a bunch of fresh spinach leaves, and a bowl of blueberries. There are also several small white bowls containing different types of seeds and grains: flaxseeds, chia seeds, hemp seeds, and rolled oats. A small bowl of yellow cornmeal or polenta is also visible. The entire collage is set against a dark, textured background.

Username

Password

Login



Click on the Hotel you like from the list of hotels below :

i. TAJ Hyderabad

ii. TAJ Vizag

ii. TAJ Vijayawada

iii. TAJ Mumbai

iv. TAJ Chennai

v. TAJ Delhi



**Click on the Food Items
you like from the list of
hotels below :**

i. Chicken Biryani

ii. Noodles

iii. Pizza

iv. Thumbs Up

v. French Fries

vi. Chicken Fried Rice





Rs.150



Rs.80



Rs.120



Rs.50



Rs.40



Rs.70

THE END