ASSIGNMENT 4

ANDROID APP DEVELOPMENT

DHATRI LEKKALA

[Dhatri.l2021@vitstudent.ac.in](mailto:Dhatri.l2021@vitstudent.ac.in)

CODE:

package com.example.foodapp  
  
import androidx.compose.foundation.Image  
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.material3.Button  
import androidx.compose.material3.ExperimentalMaterial3Api  
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.ExperimentalComposeUiApi  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.graphics.painter.Painter  
import androidx.compose.ui.layout.ContentScale  
import androidx.compose.ui.platform.LocalSoftwareKeyboardController  
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.PasswordVisualTransformation  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import androidx.navigation.NavController  
  
@OptIn(ExperimentalMaterial3Api::class, ExperimentalComposeUiApi::class)  
@Composable  
fun LoginPage(navController: NavController) {  
 var username by remember **{** *mutableStateOf*("") **}** var password by remember **{** *mutableStateOf*("") **}** // Use a Box to layer the UI elements on top of the background image  
 val keyboardController = LocalSoftwareKeyboardController.current  
 Box(  
 modifier = Modifier  
 .*fillMaxSize*() ,  
 contentAlignment = Alignment.Center  
 ) **{** Image(  
 painter = painterResource(id = R.drawable.info), // Replace with your image resource  
 contentDescription = null, // Provide a content description if needed  
 modifier = Modifier.*fillMaxSize*(),  
 contentScale = ContentScale.FillBounds  
 )  
 Column(  
 modifier = Modifier  
 .*fillMaxSize*()  
 .*padding*(16.*dp*)  
  
 ) **{** Text(  
 text = "Login",  
 style = TextStyle(  
 fontSize = 30.*sp*,  
 color = Color.White,  
 fontWeight = FontWeight.Bold  
 )  
 )  
 Spacer(modifier = Modifier.*height*(16.*dp*))  
 TextField(  
 value = username,  
 onValueChange = **{** username = **it }**,  
 label = **{** Text("Username") **}** )  
 TextField(  
 value = password,  
 onValueChange = **{** password = **it }**,  
 label = **{** Text("Password") **}**,  
 visualTransformation = PasswordVisualTransformation()  
 )  
  
 Button(  
 onClick = **{** // Implement authentication logic here  
 if (*isAuthenticationSuccessful*(username, password)) {  
 // If authentication is successful, navigate to HotelSelectionPage  
 navController.navigate("hotelSelection")  
 } else {  
 // Handle authentication failure (show an error message, etc.)  
 }  
 **}**,  
 modifier = Modifier.*fillMaxWidth*()  
 ) **{** Text(text = "Login")  
 **}** Spacer(modifier = Modifier.*height*(16.*dp*))  
 Button(  
 onClick = **{** // Navigate to RegisterPage  
 navController.navigate("register")  
 **}**,  
 modifier = Modifier.*fillMaxWidth*()  
 ) **{** Text(text = "Register")  
 **}  
 }  
 }**}  
  
// Function to perform authentication  
fun isAuthenticationSuccessful(username: String, password: String): Boolean {  
 // Implement your authentication logic here  
 // Check if the provided username and password match the registered user's credentials  
 // Return true if authentication is successful, false otherwise  
 // You can use SharedPreferences, a database, or an API call for authentication  
 return username == "user" && password == "password"  
}  
package com.example.foodapp  
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.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.material3.Button  
import androidx.compose.material3.Text  
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.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.layout.ContentScale  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.text.TextStyle  
import androidx.compose.ui.text.font.FontWeight  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import androidx.navigation.NavController  
  
  
@Composable  
fun HotelSelectionPage(navController: NavController) {  
 val hotels = *listOf*("RASHMI HOTEL", "TAJ HOTEL", "DHATRI HOTEL")  
 var selectedHotel by remember **{** *mutableStateOf*<String?>(null) **}** Box(  
 modifier = Modifier  
 .*fillMaxSize*() // Fill the entire screen  
  
 ) **{** Image(  
 painter = painterResource(id = R.drawable.info), // Replace with your image resource  
 contentDescription = null, // Provide a content description if needed  
 modifier = Modifier.*fillMaxSize*(),  
 contentScale = ContentScale.FillBounds  
 )  
 Column(  
 modifier = Modifier  
 .*fillMaxSize*()  
 .*padding*(16.*dp*)  
 ) **{** Text(text = "Select a Hotel", style = TextStyle(  
 fontSize = 30.*sp*, // Adjust the fontSize as needed  
 color = Color.White, // Set the text color to white  
 fontWeight = FontWeight.Bold // Make the text bold  
 )  
 )  
 Spacer(modifier = Modifier.*height*(16.*dp*))  
  
 hotels.*forEach* **{** hotel **->** Row(  
 modifier = Modifier  
 .*fillMaxWidth*()  
 .*clickable* **{** selectedHotel = hotel  
 navController.navigate("menu")  
 **}** .*padding*(8.*dp*)  
 ) **{** Text(text = hotel, style = TextStyle(  
 fontSize = 30.*sp*, // Adjust the fontSize as needed  
 color = Color.White )  
 )  
 **}  
 }** Spacer(modifier = Modifier.*height*(16.*dp*))  
  
 Button(  
 onClick = **{** // Implement logic for going back to login page if necessary  
 navController.popBackStack()  
 **}**,  
 modifier = Modifier.*fillMaxWidth*()  
 ) **{** Text(text = "Back to Login")  
 **}  
 }  
 }**}  
package com.example.foodapp  
import androidx.compose.foundation.Image  
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.material3.Button  
import androidx.compose.material3.ExperimentalMaterial3Api  
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.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.layout.ContentScale  
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.PasswordVisualTransformation  
import androidx.compose.ui.unit.dp  
import androidx.compose.ui.unit.sp  
import androidx.navigation.NavController  
  
@OptIn(ExperimentalMaterial3Api::class)  
@Composable  
fun RegisterPage(navController: NavController) {  
 var username by remember **{** *mutableStateOf*("") **}** var password by remember **{** *mutableStateOf*("") **}** Box(  
 modifier = Modifier  
 .*fillMaxSize*() // Fill the entire screen  
  
 ) **{** Image(  
 painter = painterResource(id = R.drawable.info), // Replace with your image resource  
 contentDescription = null, // Provide a content description if needed  
 modifier = Modifier.*fillMaxSize*(),  
 contentScale = ContentScale.FillBounds  
 )  
 Column(  
 modifier = Modifier  
 .*fillMaxSize*()  
 .*padding*(16.*dp*)  
 ) **{** Text(text = "Register", style = TextStyle(  
 fontSize = 30.*sp*, // Adjust the fontSize as needed  
 color = Color.White, // Set the text color to white  
 fontWeight = FontWeight.Bold // Make the text bold  
 )  
 )  
 Spacer(modifier = Modifier.*height*(16.*dp*))  
 TextField(  
 value = username,  
 onValueChange = **{** username = **it }**,  
 label = **{** Text("Username") **}** )  
 TextField(  
 value = password,  
 onValueChange = **{** password = **it }**,  
 label = **{** Text("Password") **}**,  
 visualTransformation = PasswordVisualTransformation()  
 )  
 Button(  
 onClick = **{** // Implement user registration logic here  
 // After registration, navigate to HotelSelectionPage  
 navController.navigate("hotelSelection")  
 **}**,  
 modifier = Modifier.*fillMaxWidth*()  
 ) **{** Text(text = "Register")  
 **}** Spacer(modifier = Modifier.*height*(16.*dp*))  
 Button(  
 onClick = **{** // Navigate back to login page  
 navController.popBackStack()  
 **}**,  
 modifier = Modifier.*fillMaxWidth*()  
 ) **{** Text(text = "Back to Login")  
 **}  
 }  
 }**}  
package com.example.foodapp  
import androidx.compose.foundation.Image  
import androidx.compose.foundation.layout.\*  
  
import androidx.compose.material3.\*  
import androidx.compose.runtime.\*  
import androidx.compose.ui.res.painterResource  
import androidx.compose.ui.unit.dp  
  
import android.os.Bundle  
import androidx.activity.ComponentActivity  
import androidx.activity.compose.setContent  
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.padding  
import androidx.compose.material3.Button  
import androidx.compose.material3.Checkbox  
import androidx.compose.material3.ExperimentalMaterial3Api  
import androidx.compose.material3.Text  
import androidx.compose.material3.TextField  
import androidx.compose.runtime.Composable  
import androidx.compose.runtime.getValue  
import androidx.compose.runtime.mutableStateListOf  
import androidx.compose.runtime.mutableStateOf  
import androidx.compose.runtime.remember  
import androidx.compose.runtime.setValue  
import androidx.compose.ui.Alignment  
import androidx.compose.ui.ExperimentalComposeUiApi  
import androidx.compose.ui.Modifier  
import androidx.compose.ui.graphics.Color  
import androidx.compose.ui.graphics.painter.Painter  
import androidx.compose.ui.layout.ContentScale  
import androidx.compose.ui.platform.LocalSoftwareKeyboardController  
import androidx.compose.ui.text.TextStyle  
import androidx.compose.ui.text.font.FontWeight  
import androidx.compose.ui.text.input.PasswordVisualTransformation  
import androidx.compose.ui.unit.sp  
import androidx.navigation.NavController  
import androidx.navigation.compose.rememberNavController  
  
import androidx.navigation.compose.NavHost  
import androidx.navigation.compose.composable  
import com.varsha.varsaa.ui.theme.MenuPage  
  
  
class MainActivity : ComponentActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 *setContent* **{** val navController = rememberNavController()  
  
 NavHost(  
 navController = navController,  
 startDestination = "login"  
 ) **{** composable("login") **{** LoginPage(navController = navController)  
 **}** composable("register") **{** RegisterPage(navController = navController)  
 **}** composable("hotelSelection") **{** HotelSelectionPage(navController = navController)  
 **}** composable("menu") **{** MenuPage(navController = navController)  
 **}  
  
 }  
  
  
 }** }

}

ZIP LINK:

<https://drive.google.com/file/d/1MAdo6Yugk7t4H9nPuxdJNGRFTS2K2Yv2/view?usp=sharing>

VIDEO OUTPUT LINK:

<https://drive.google.com/file/d/1Q5jfbJfS-Wt6ZV-5Zl97rUXBq-ZbkxrO/view?usp=drivesdk>