

MainActivity Code:

```
package com.example.login_page

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Visibility
import androidx.compose.material.icons.filled.VisibilityOff
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
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.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.navigation.NavController
import androidx.navigation.compose.NavHost
import androidx.navigation.compose.composable
import androidx.navigation.compose.rememberNavController
import com.example.Login_Page.AppNavigation
import com.example.login_page.ui.theme.Login_PageTheme
import java.util.regex.Pattern

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContent {
```

```
        Login_PageTheme {  
            AppNavigation()  
        }  
    }  
}  
}
```

```
@Preview(showBackground = true)  
@Composable  
fun LoginPreview() {  
    LoginPage(rememberNavController())  
}
```

Login Page Rough Code:

```
package com.example.login_page

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material.icons.Icons
import androidx.compose.material.icons.filled.Visibility
import androidx.compose.material.icons.filled.VisibilityOff
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
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.tooling.preview.Preview
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import com.example.login_page.ui.theme.Login_PageTheme

class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContent {
            Login_PageTheme {
                LoginPage()
            }
        }
    }
}
```

```

@Composable
fun LoginPage() {
    var email by remember { mutableStateOf("") }
    var password by remember { mutableStateOf("") }
    var passwordVisible by remember { mutableStateOf(false) }

    Column(
        modifier = Modifier
            .fillMaxSize()
            .padding(16.dp),
        verticalArrangement = Arrangement.Center,
        horizontalAlignment = Alignment.CenterHorizontally
    ) {
        Text(text = "Signin", fontSize = 18.sp, fontWeight = FontWeight.Bold)
        Spacer(modifier = Modifier.height(16.dp))
        OutlinedTextField(
            value = email,
            onValueChange = { email = it },
            label = { Text("Email") },
            keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Email)
        )
        Spacer(modifier = Modifier.height(8.dp))
        PasswordField(password, passwordVisible) { newValue -> password = newValue }
        Spacer(modifier = Modifier.height(16.dp))
        Button(onClick = { /* Handle login action */ }) {
            Text("Login")
        }
    }
}

```

```

@OptIn(ExperimentalMaterial3Api::class)
@Composable
fun PasswordField(
    password: String,
    passwordVisible: Boolean,
    onPasswordChange: (String) -> Unit
) {
    var passwordVisibility by remember { mutableStateOf(passwordVisible) }

    Column {

```

```

OutlinedTextField(
    value = password,
    onValueChange = onPasswordChange,
    label = { Text("Password") },
    visualTransformation = if (passwordVisibility) VisualTransformation.None else
PasswordVisualTransformation(),
    keyboardOptions = KeyboardOptions(keyboardType = KeyboardType.Password),
    trailingIcon = {
        val icon =
            if (passwordVisibility) Icons.Filled.Visibility else Icons.Filled.VisibilityOff
        val description = if (passwordVisibility) "Hide password" else "Show password"

        IconButton(onClick = { passwordVisibility = !passwordVisibility }) {
            Icon(imageVector = icon, contentDescription = description)
        }
    }
)
Spacer(modifier = Modifier.height(8.dp))
Text(
    text = "Forgot Password?",
    color = MaterialTheme.colorScheme.primary,
    style = MaterialTheme.typography.bodySmall,
    modifier = Modifier
        .clickable { /* Handle forgot password */ }

)
}
}

```

```

@Preview(showBackground = true)
@Composable
fun LoginPreview() {
    Login_PageTheme {
        LoginPage()
    }
}

```

Home Page Rough Code:

```
package com.example.rough_code

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.enableEdgeToEdge
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.padding
import androidx.compose.material3.Scaffold
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.ui.Modifier
import androidx.compose.ui.tooling.preview.Preview
import com.example.rough_code.ui.theme.Rough_CodeTheme
import androidx.compose.foundation.Image
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.aspectRatio
import androidx.compose.foundation.layout.fillMaxHeight
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.paddingFrom
import androidx.compose.foundation.layout.size
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.material.icons.Icons
import androidx.compose.material3.Button
import androidx.compose.material3.ButtonDefaults
import androidx.compose.material3.Icon
import androidx.compose.material3.NavigationBar
import androidx.compose.material3.NavigationBarItem
import androidx.compose.material3.Text
```

```
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.draw.clip
import androidx.compose.ui.res.painterResource
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import androidx.compose.material.icons.filled.Home
import androidx.compose.material.icons.filled.AccountCircle
import androidx.compose.material.icons.filled.CreditCard
import androidx.compose.material.icons.filled.Refresh
import androidx.compose.material.icons.filled.AddCircle
```

```
class MainActivity : ComponentActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        enableEdgeToEdge()
        setContent {
            MainScreen()
        }
    }
}

@Composable
fun MainScreen() {
    var selectedTab by remember { mutableStateOf(0) }

    Scaffold(
        bottomBar = {
            BottomNavigationBar(selectedTab) { selectedTab = it }
        }
    ) { paddingValues ->
        Column(
            modifier = Modifier
                .fillMaxSize()
                .padding(paddingValues),
            horizontalAlignment = Alignment.CenterHorizontally
```

```

    ){
        when (selectedTab) {
            0 -> HomePage()
            1 -> PlaceholderScreen("Apply for New Pass")
            2 -> PlaceholderScreen("Renew\nPass")
            3 -> PlaceholderScreen("Payment")
            4 -> PlaceholderScreen("Profile")
        }
    }
}
}

```

@Composable

```

fun BottomNavigationBar(selectedTab: Int, onTabSelected: (Int) -> Unit) {
    NavigationBar {
        val items = listOf(
            Pair("Home", Icons.Filled.Home),
            Pair("New Pass", Icons.Filled.AddCircle),
            Pair("Renew\nPass", Icons.Filled.Refresh),
            Pair("Payment", Icons.Filled.CreditCard),
            Pair("Profile", Icons.Filled.AccountCircle)
        )

        items.forEachIndexed { index, (title, icon) ->
            NavigationBarItem(
                selected = selectedTab == index,
                onClick = { onTabSelected(index) },
                label = { Text(title) },
                icon = { Icon(imageVector = icon, contentDescription = title) }
            )
        }
    }
}

```

@Composable

```

fun HomePage() {

    Column(
        modifier = Modifier

```



```

        .fillMaxSize().padding(top = 50.dp),

horizontalAlignment = Alignment.CenterHorizontally

){
    Text(text = "GoPass", fontSize = 28.sp, fontWeight = FontWeight.Bold)

    Spacer(modifier = Modifier.height(16.dp))
    Image(
        painter = painterResource(id = R.drawable.img1),
        contentDescription = "Rounded Image",
        modifier = Modifier.fillMaxWidth() // Makes image take full width
            .aspectRatio(16f / 9f)
            .clip(RoundedCornerShape(16.dp)) // Apply rounded corners
    )

    Spacer(modifier = Modifier.height(64.dp))
    Column(
        modifier = Modifier.fillMaxWidth(),
        horizontalAlignment = Alignment.CenterHorizontally,

    ){
        Row(
            modifier = Modifier.fillMaxWidth(),
            horizontalArrangement = Arrangement.SpaceEvenly,
        ){
            CustomButton(text = "New Pass")
            CustomButton(text = "Renew Pass")
        }

        Spacer(modifier = Modifier.height(16.dp)) // Space between rows

        Row(
            modifier = Modifier.fillMaxWidth(),
            horizontalArrangement = Arrangement.SpaceEvenly
        ){
            CustomButton(text = "Payment")
            CustomButton(text = "Location")
        }
    }
}

```

```
}
```

```
@Composable
```

```
fun CustomButton(text: String) {
```

```
    Button(
```

```
        onClick = { /* TODO: Handle Click */ },
```

```
        modifier = Modifier
```

```
            .size(width = 150.dp, height = 80.dp), // Adjust button size
```

```
            shape = RoundedCornerShape(12.dp),
```

```
            colors = ButtonDefaults.buttonColors()
```

```
    ){
```

```
        Text(text = text, fontSize = 16.sp)
```

```
    }
```

```
}
```

```
@Composable
```

```
fun PlaceholderScreen(title: String) {
```

```
    Box(
```

```
        modifier = Modifier.fillMaxSize(),
```

```
        contentAlignment = Alignment.Center
```

```
    ){
```

```
        Text(text = title, fontSize = 24.sp, fontWeight = FontWeight.Bold)
```

```
    }
```

```
}
```

New_Pass Rough Code:

```
package com.example.login_page

import androidx.compose.ui.platform.LocalContext
import androidx.navigation.NavController

import android.os.Bundle
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.compose.foundation.layout.*
import androidx.compose.foundation.text.BasicTextField
import androidx.compose.foundation.text.KeyboardOptions
import androidx.compose.material3.*
import androidx.compose.runtime.*
import androidx.compose.ui.Modifier
import androidx.compose.ui.text.input.KeyboardType
import androidx.compose.ui.unit.dp
import androidx.compose.ui.tooling.preview.Preview
import androidx.navigation.compose.NavHost
import androidx.navigation.compose.composable
import androidx.navigation.compose.rememberNavController

@Composable
fun BusPassForm(navController: NavController) {

    var name by remember { mutableStateOf("") }
    var studentId by remember { mutableStateOf("") }
    var contact by remember { mutableStateOf("") }
    var email by remember { mutableStateOf("") }
    var pickupLocation by remember { mutableStateOf("") }
    var dropLocation by remember { mutableStateOf("") }
    var paymentMode by remember { mutableStateOf("") }

    Column(modifier = Modifier.padding(16.dp)) {
```

```

Spacer(modifier = Modifier.height(30.dp))
OutlinedTextField(value = name, onValueChange = { name = it },
    label = { Text("Full Name") },
    modifier = Modifier.fillMaxWidth())
Spacer(modifier = Modifier.height(8.dp))
OutlinedTextField(value = studentId, onValueChange = { studentId = it },
    label = { Text("Student/Employee ID") },
    modifier = Modifier.fillMaxWidth())
Spacer(modifier = Modifier.height(8.dp))
OutlinedTextField(value = contact, onValueChange = { contact = it },
    label = { Text("Contact Number") }, keyboardOptions =
KeyboardOptions(keyboardType = KeyboardType.Phone),
    modifier = Modifier.fillMaxWidth())
Spacer(modifier = Modifier.height(8.dp))
OutlinedTextField(value = email, onValueChange = { email = it },
    label = { Text("Email Address") },
    modifier = Modifier.fillMaxWidth())
Spacer(modifier = Modifier.height(8.dp))
OutlinedTextField(value = pickupLocation, onValueChange = { pickupLocation = it },
    label = { Text("Pickup Location") },
    modifier = Modifier.fillMaxWidth())
Spacer(modifier = Modifier.height(8.dp))
OutlinedTextField(value = dropLocation, onValueChange = { dropLocation = it },
    label = { Text("Drop-off Location") },
    modifier = Modifier.fillMaxWidth())
Spacer(modifier = Modifier.height(8.dp))
OutlinedTextField(value = paymentMode, onValueChange = { paymentMode = it },
    label = { Text("Payment Mode") },
    modifier = Modifier.fillMaxWidth())
Spacer(modifier = Modifier.height(16.dp))
Button(onClick = { navController.navigate("home") }) {
    Text("Submit")
}
}
}

```

```

@Preview(showBackground = true)
@Composable
fun PreviewBusPassForm() {
    BusPassForm(navController = rememberNavController())
}

```