

## **WEB ICP8**

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GitHub Link: <https://github.com/Dharmateja183/Web-and-Mobile-programming-spring-2022/tree/main/Webpart/ICP8>

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GitHub link: <https://github.com/avinashreddy3/WebDevCourse/tree/main/MobilePart/ICP8>

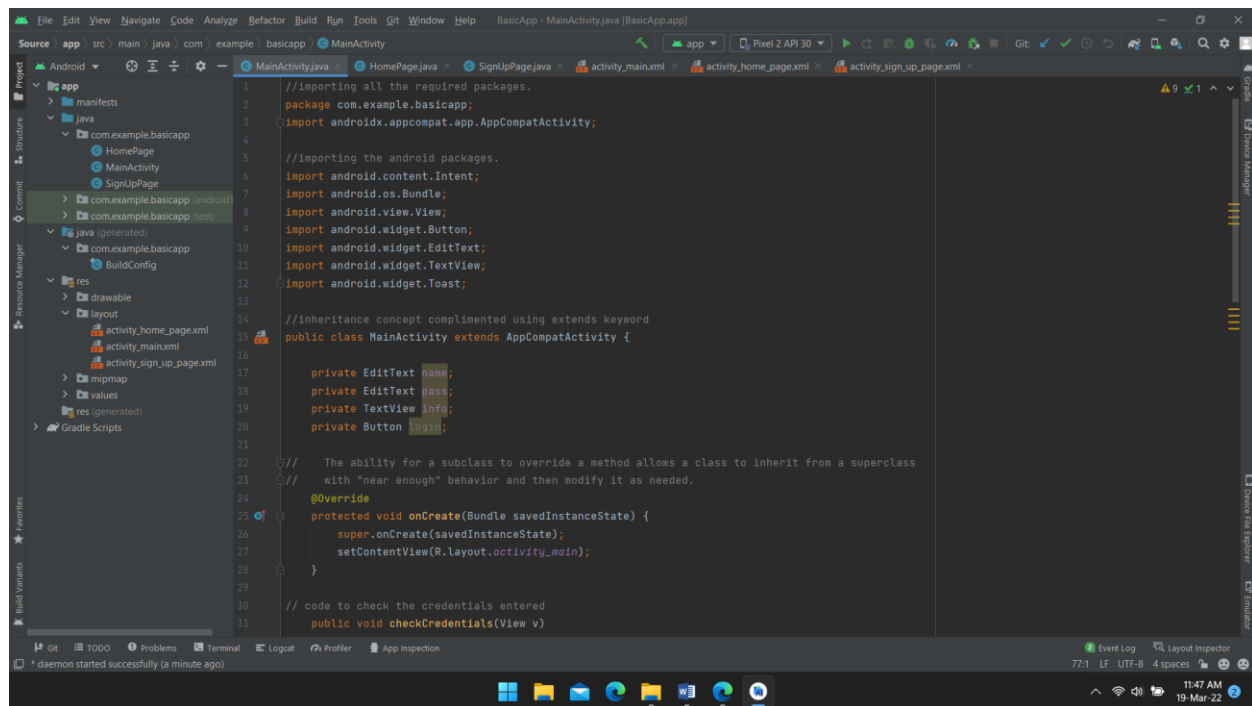
### **In Class Programming:**

In this ICP, we are going to

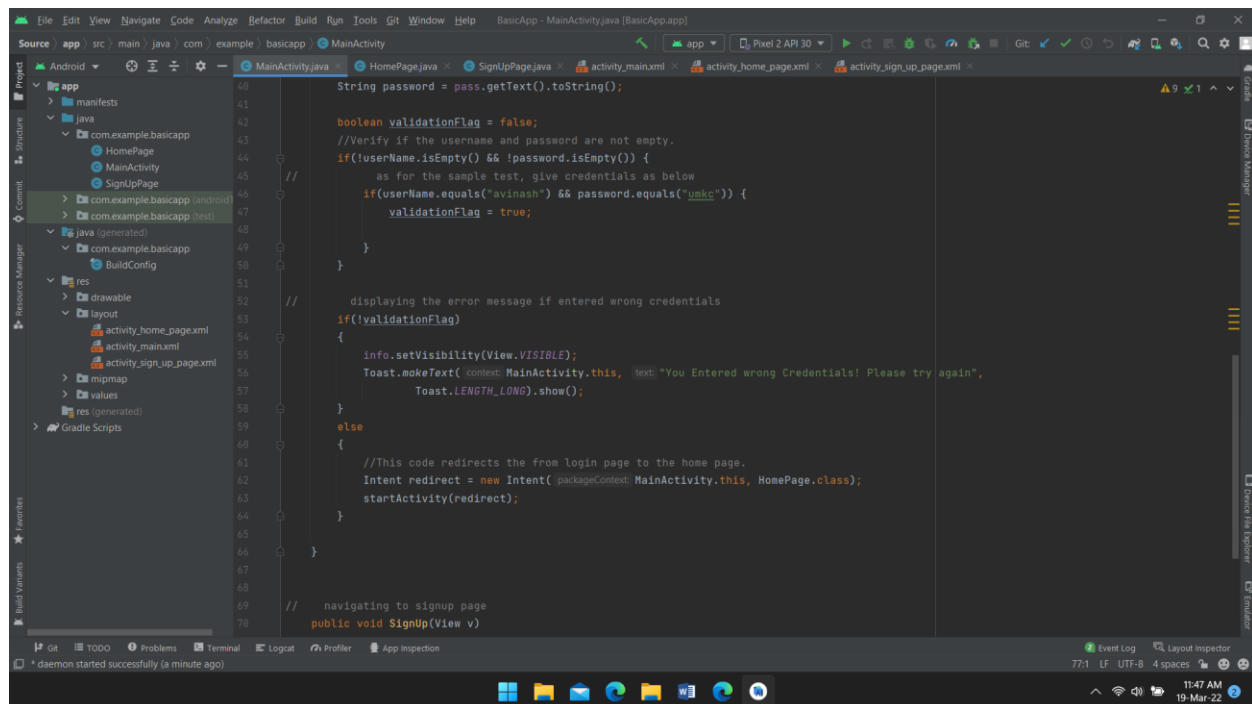
Create the basic Login application, which consists of:

- Username and password should be included in the main action (make appropriate changes for the login app!) with login button.
- If the login credentials are genuine, the screen should navigate to the welcome screen when the 'Login' button is clicked, logout button after login. Otherwise, the app should show the user an appropriate message.
- When clicked on the logout button, the screen should navigate to the login screen

Below was the snippet of main\_activity java code , written importing the packages required and used inheritance concepts as well.

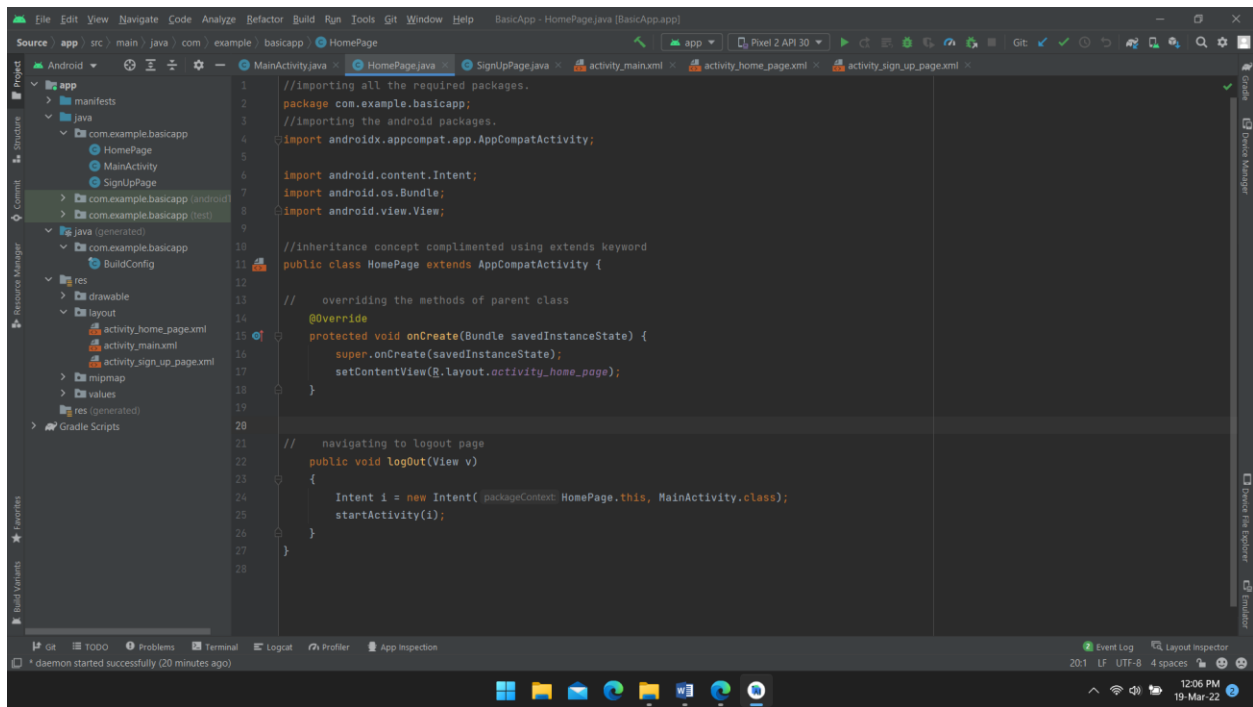


```
1 //importing all the required packages.
2 package com.example.basicaapp;
3 import androidx.appcompat.app.AppCompatActivity;
4
5 //importing the android packages.
6 import android.content.Intent;
7 import android.os.Bundle;
8 import android.view.View;
9 import android.widget.Button;
10 import android.widget.EditText;
11 import android.widget.TextView;
12 import android.widget.Toast;
13
14 //inheritance concept complimented using extends keyword
15 public class MainActivity extends AppCompatActivity {
16
17     private EditText name;
18     private EditText pass;
19     private TextView info;
20     private Button login;
21
22     // The ability for a subclass to override a method allows a class to inherit from a superclass
23     // with "near enough" behavior and then modify it as needed.
24     @Override
25     protected void onCreate(Bundle savedInstanceState) {
26         super.onCreate(savedInstanceState);
27         setContentView(R.layout.activity_main);
28     }
29
30     // code to check the credentials entered
31     public void checkCredentials(View v)
```



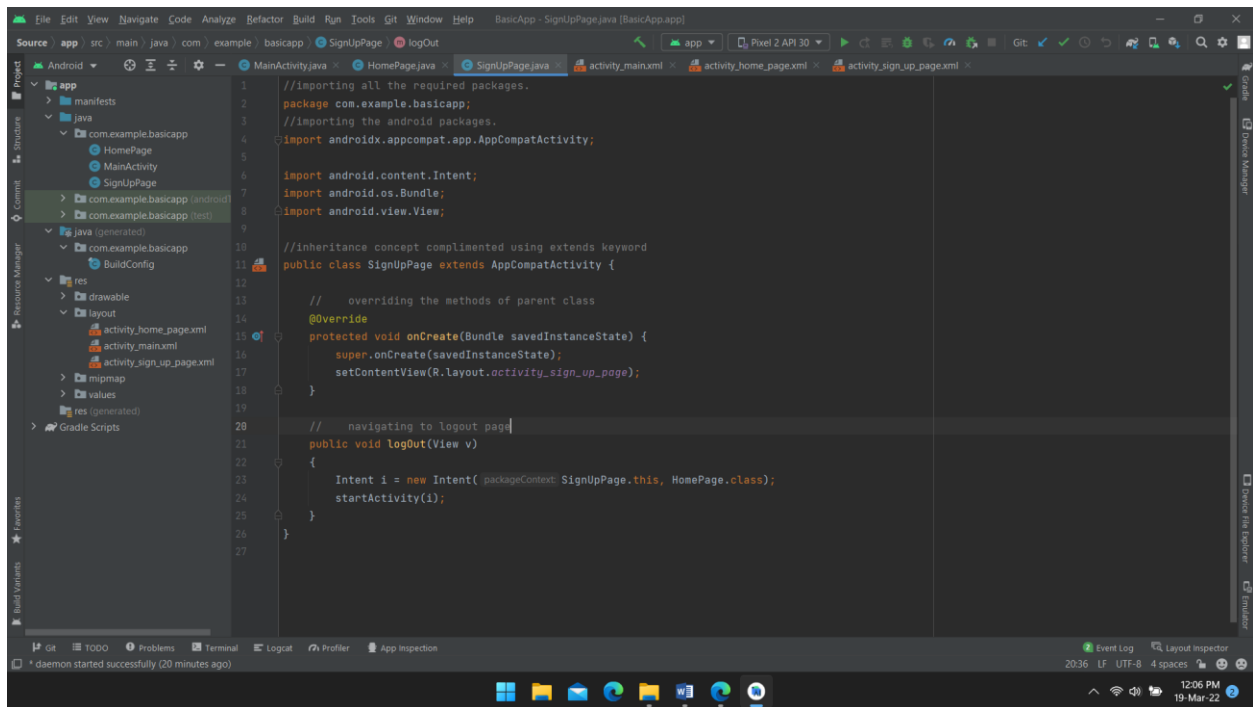
```
40 String password = pass.getText().toString();
41
42 boolean validationFlag = false;
43 //Verify if the username and password are not empty.
44 if(userName.isEmpty() && !password.isEmpty()) {
45     // as for the sample test, give credentials as below
46     if(userName.equals("avinash") && password.equals("umkc")) {
47         validationFlag = true;
48     }
49 }
50
51 // displaying the error message if entered wrong credentials
52 if(!validationFlag)
53 {
54     info.setVisibility(View.VISIBLE);
55     Toast.makeText(context, MainActivity.this, "You Entered wrong Credentials! Please try again",
56         Toast.LENGTH_LONG).show();
57 }
58 else
59 {
60     //This code redirects the from login page to the home page.
61     Intent redirect = new Intent(context, HomePage.class);
62     startActivity(redirect);
63 }
64
65 }
66
67 // navigating to signup page
68 public void SignUp(View v)
```

Java Code screenshot of homepage.



```
1 //importing all the required packages.
2 package com.example.basicapp;
3 //importing the android packages.
4 import androidx.appcompat.app.AppCompatActivity;
5
6 import android.content.Intent;
7 import android.os.Bundle;
8 import android.view.View;
9
10 //inheritance concept complimented using extends keyword
11 public class HomePage extends AppCompatActivity {
12
13     // overriding the methods of parent class
14     @Override
15     protected void onCreate(Bundle savedInstanceState) {
16         super.onCreate(savedInstanceState);
17         setContentView(R.layout.activity_home_page);
18     }
19
20
21 // navigating to logout page
22 public void logout(View v)
23 {
24     Intent i = new Intent( packageContext, MainActivity.class);
25     startActivity(i);
26 }
27
28 }
```

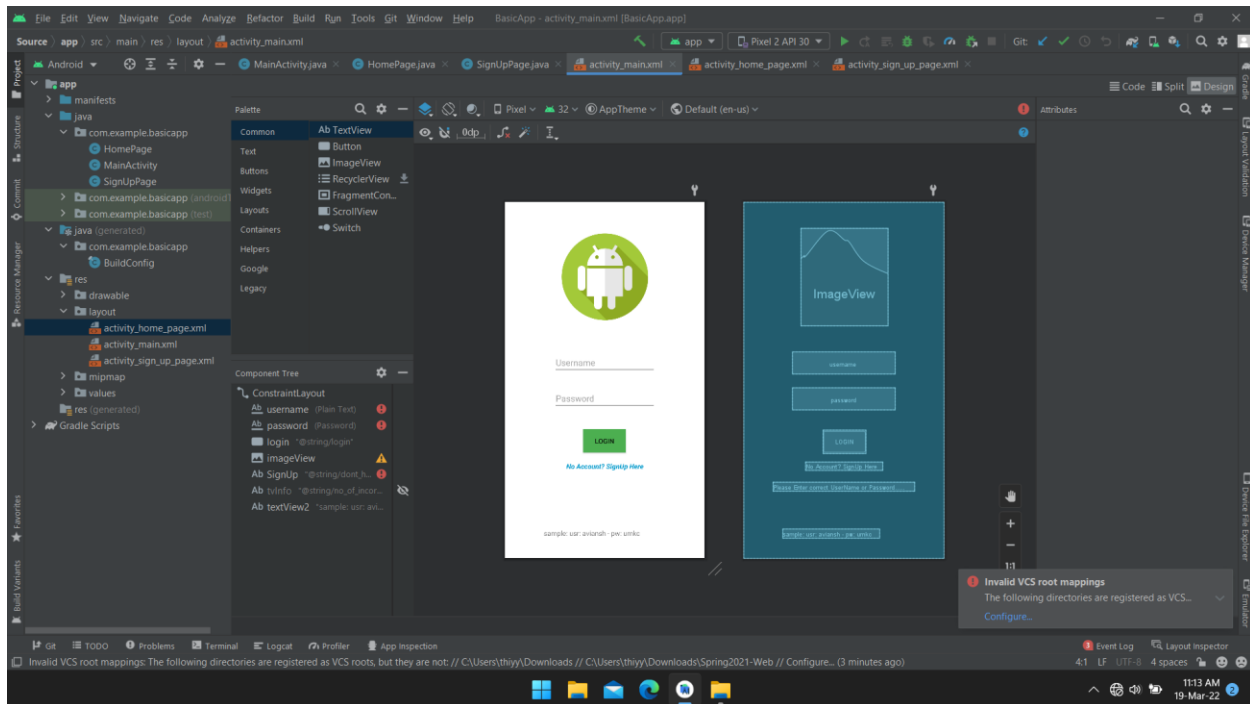
Java Code screenshot of signup page.



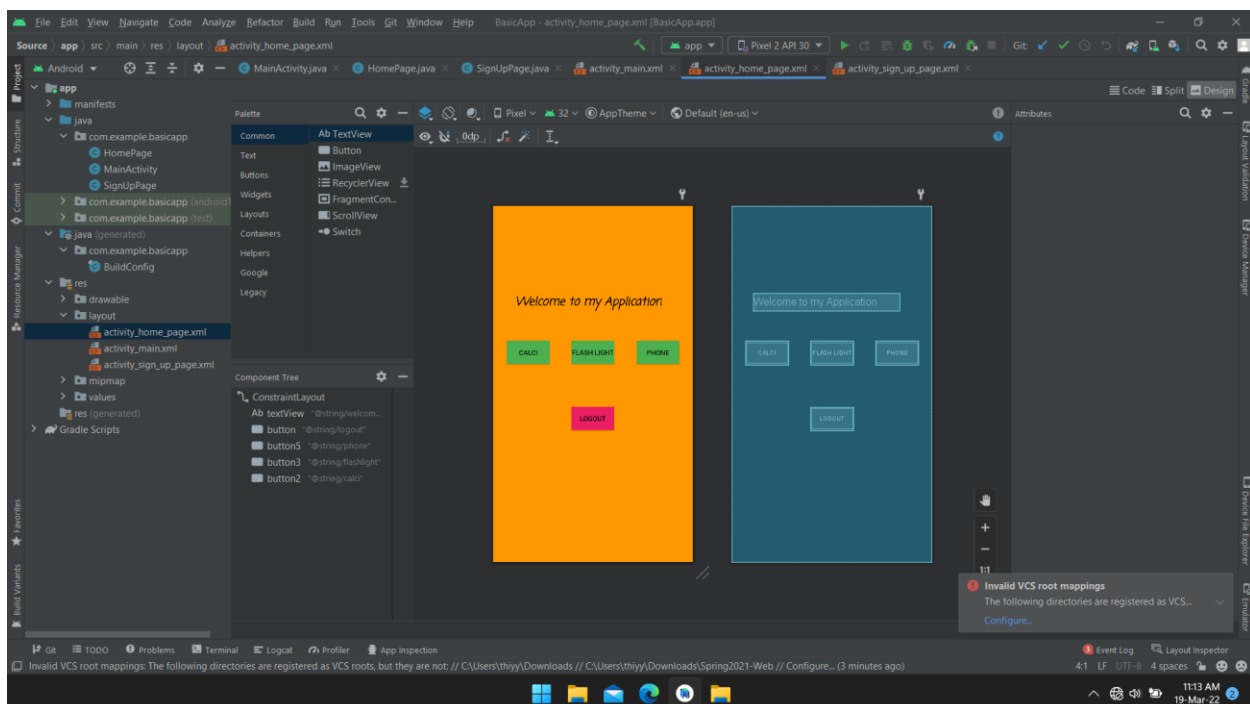
```
1 //importing all the required packages.
2 package com.example.basicapp;
3 //importing the android packages.
4 import androidx.appcompat.app.AppCompatActivity;
5
6 import android.content.Intent;
7 import android.os.Bundle;
8 import android.view.View;
9
10 //inheritance concept complimented using extends keyword
11 public class SignUpPage extends AppCompatActivity {
12
13     // overriding the methods of parent class
14     @Override
15     protected void onCreate(Bundle savedInstanceState) {
16         super.onCreate(savedInstanceState);
17         setContentView(R.layout.activity_sign_up_page);
18     }
19
20 // navigating to logout page
21 public void logout(View v)
22 {
23     Intent i = new Intent( packageContext, MainActivity.class);
24     startActivity(i);
25 }
26
27 }
```

Below was the main login page designed with username and password fields with login button and text displayed below it.

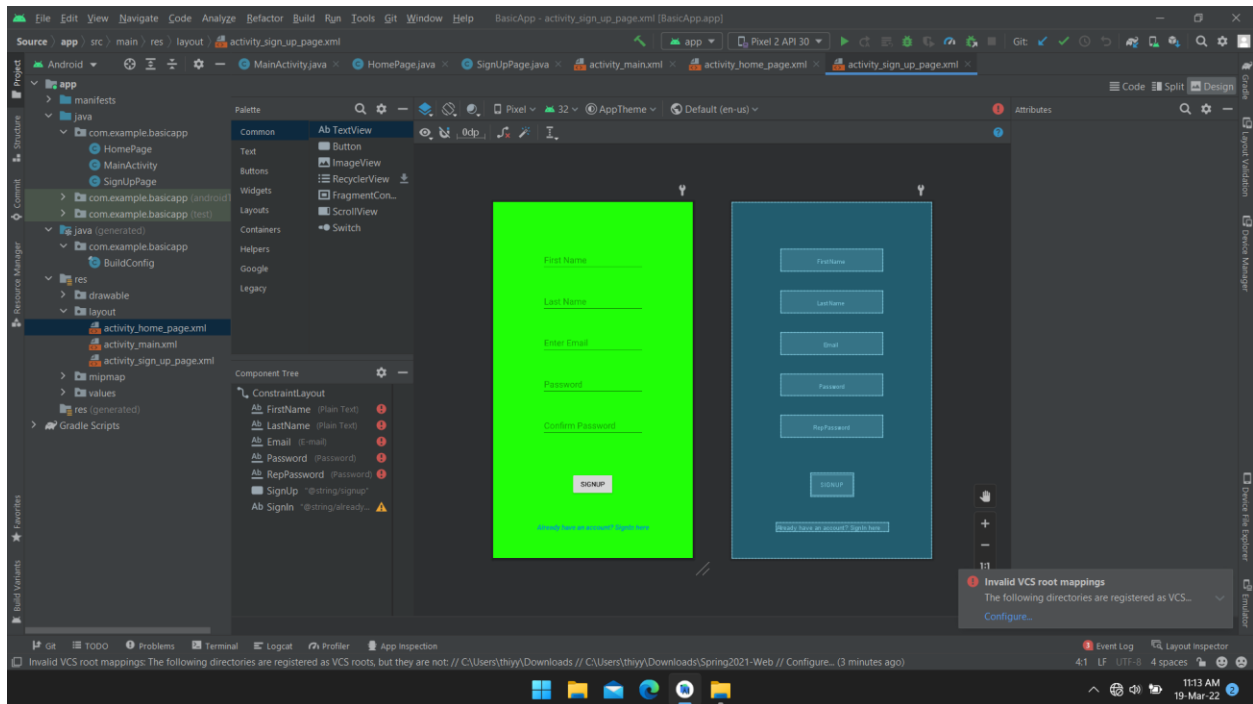
Sample username and password is also displayed as a part of testing



Below is the welcome page which comes after logging in



Below was the signup page designed with username, password, email address fields with signup button and text displayed below it.



Below are the output samples screenshots after the running the code and installing the apk on any of the devices.

