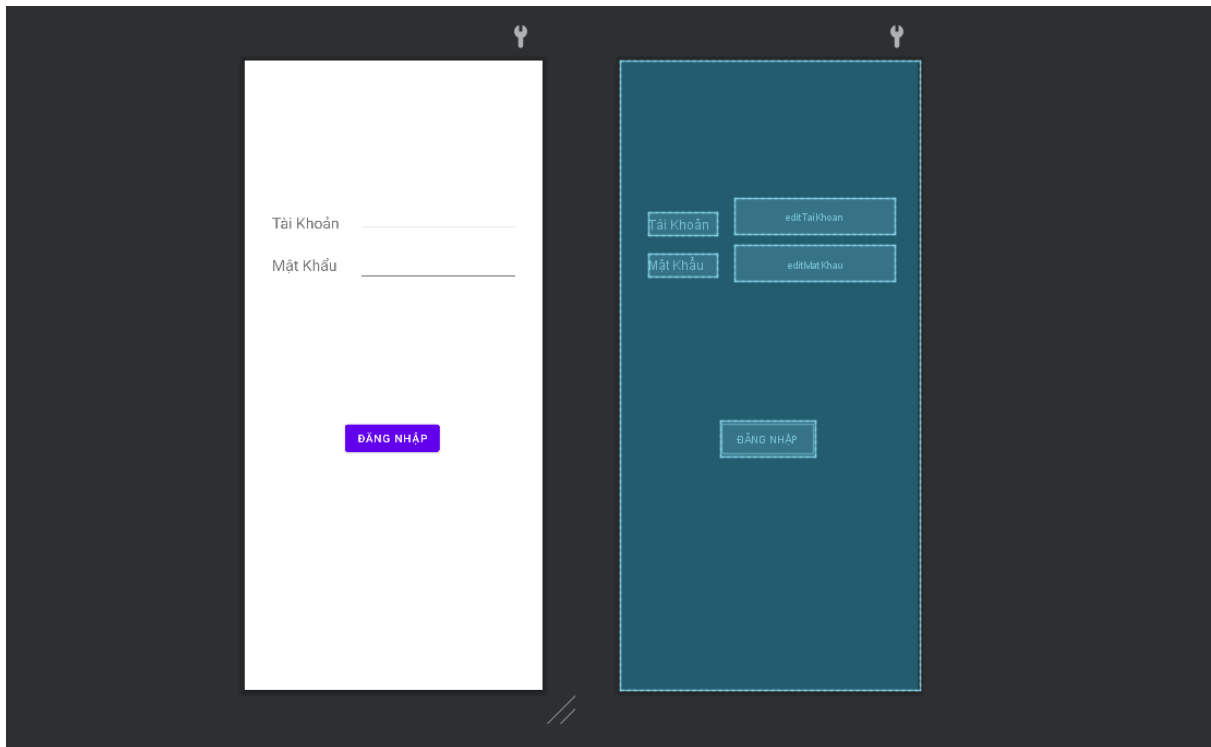


Lab_01

1/

```
3  import ...
13
14  public class MainActivity extends AppCompatActivity {
15
16      @Override
17      protected void onCreate(Bundle savedInstanceState) {
18          super.onCreate(savedInstanceState);
19          setContentView(R.layout.activity_main);
20
21          //Tự tạo một danh sách người dùng gồm username và password
22          Map<String, String> myMap = new HashMap<>();
23          myMap.put(k: "key1", v: "value1");
24          myMap.put(k: "key2", v: "value2");
25          myMap.put(k: "key3", v: "value3");
26
27          Button btnDN = (Button)findViewById(R.id.btnDangNhap);
28          btnDN.setOnClickListener(v -> {
29              EditText taiKhoan = (EditText) findViewById(R.id.editTaiKhoan);
30              EditText matKhau = (EditText) findViewById(R.id.editMatKhau);
31              String txtTK = taiKhoan.getText().toString();
32              String txtMK = matKhau.getText().toString();
33              if (myMap.containsKey(txtTK) && myMap.containsValue(txtMK)){
34                  Intent intent = new Intent( packageContext: MainActivity.this, SecondActivity.class);
35                  Toast.makeText( context: MainActivity.this, text: "Hello" + txtTK + "!"
36                      , Toast.LENGTH_SHORT).show();
37                  startActivity(intent);
38              }
39
40              else{
41                  Toast.makeText(getApplicationContext(), text: "Đăng Nhập thất bại!"
42                      , Toast.LENGTH_SHORT).show();
43              }
44          });
45      }
46  }
```



```
1 package com.duy.lab_01;
2
3 import ...
4
5
6
7
8
9 public class SecondActivity extends Activity {
10     @Override
11
12     protected void onCreate(Bundle savedInstanceState) {
13         // TODO Auto-generated method stub
14         super.onCreate(savedInstanceState);
15         TextView tv = new TextView( context: this);
16         tv.setText("Hello Android!");
17         tv.setGravity(Gravity.CENTER);
18         setContentView(tv);
19         Intent intent2 = getIntent();
20         String TenTaiKhoan = intent2.getStringExtra( name: "TaiKhoan");
21
22     }
23 }
```

```

2
3 import ...
8
9 public class SecondActivity extends Activity {
10     @Override
11
12     protected void onCreate(Bundle savedInstanceState) {
13         // TODO Auto-generated method stub
14         super.onCreate(savedInstanceState);
15         TextView tv = new TextView(context: this);
16         tv.setText("Hello Android!");
17         tv.setGravity(Gravity.CENTER);
18         setContentView(tv);
19     }
20 }

```

```

1 <resources>
2     <string name="app_name">Lab_01</string>
3     <string name="btnDangNhap">Đăng Nhập</string>
4     <string name="txtTaiKhoan">Tài Khoản</string>
5     <string name="txtMatKhau">Mật Khẩu</string>
6 </resources>

```



Tài Khoản

Mật Khẩu

ĐĂNG NHẬP



Tài Khoản

Mật Khẩu

ĐĂNG NHẬP

Đăng Nhập thất bại!



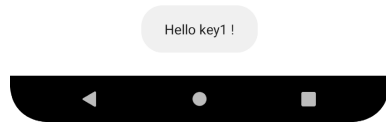
Tài Khoản

Mật Khẩu

ĐĂNG NHẬP



Hello Android!



```

MainActivity.java x strings.xml x HelloUser.java x Register.java x activity_hello_user.xml x activity_register.xml x activity_main.xml x
1 package com.duy.lab_01_2;
2
3 import ...
19
20 public class
21 MainActivity extends AppCompatActivity {
22
23     DatabaseReference databaseReference = FirebaseDatabase.getInstance()
24         .getReferenceFromUrl("https://loginregister-a1a3f-default-rtdb.firebaseio.com/");
25
26     private EditText userName;
27     private EditText passWord;
28     private Button btnLogin;
29     private TextView intApptempts;
30     private int Attempts = 5;
31
32
33     @Override
34     protected void onCreate(Bundle savedInstanceState) {
35         super.onCreate(savedInstanceState);
36         setContentView(R.layout.activity_main);
37
38         userName = findViewById(R.id.editUserName);
39         passWord = findViewById(R.id.editPassWord);
40         btnLogin = findViewById(R.id.btnLogin);
41         Button btnCNA = findViewById(R.id.btnCNA);
42         intApptempts = findViewById(R.id.txtAttempts);

```

```

42         intApptempts = findViewById(R.id.txtAttempts);
43
44         btnLogin.setOnClickListener(v -> {
45
46             final String txtUserName = userName.getText().toString();
47             final String txtPassWord = passWord.getText().toString();
48
49             if (txtUserName.isEmpty() || txtPassWord.isEmpty()){
50                 Toast.makeText(context: MainActivity.this, text: "Bạn cần phải nhập Username hoặc Password"
51                     , Toast.LENGTH_LONG).show();
52             }else {
53                 databaseReference.child("users")
54                     .addListenerForSingleValueEvent(new ValueEventListener() {
55                         @SuppressWarnings("SetTextI18n")
56                         @Override
57                         public void onDataChange(@NonNull DataSnapshot snapshot) {
58                             if (snapshot.hasChild(txtUserName))
59                             {
60                                 final String getPassWord = snapshot.child(txtUserName)
61                                     .child("PassWord").getValue(String.class);
62
63                                 assert getPassWord != null;
64                                 if (getPassWord.equals(txtPassWord)) {
65                                     Toast.makeText(context: MainActivity.this, text: "Đăng nhập Thành Công! \n" + txtUserName
66                                         , Toast.LENGTH_SHORT).show();
67                                     startActivity(new Intent(context: MainActivity.this, HelloUser.class));
68                                     finish();

```

```

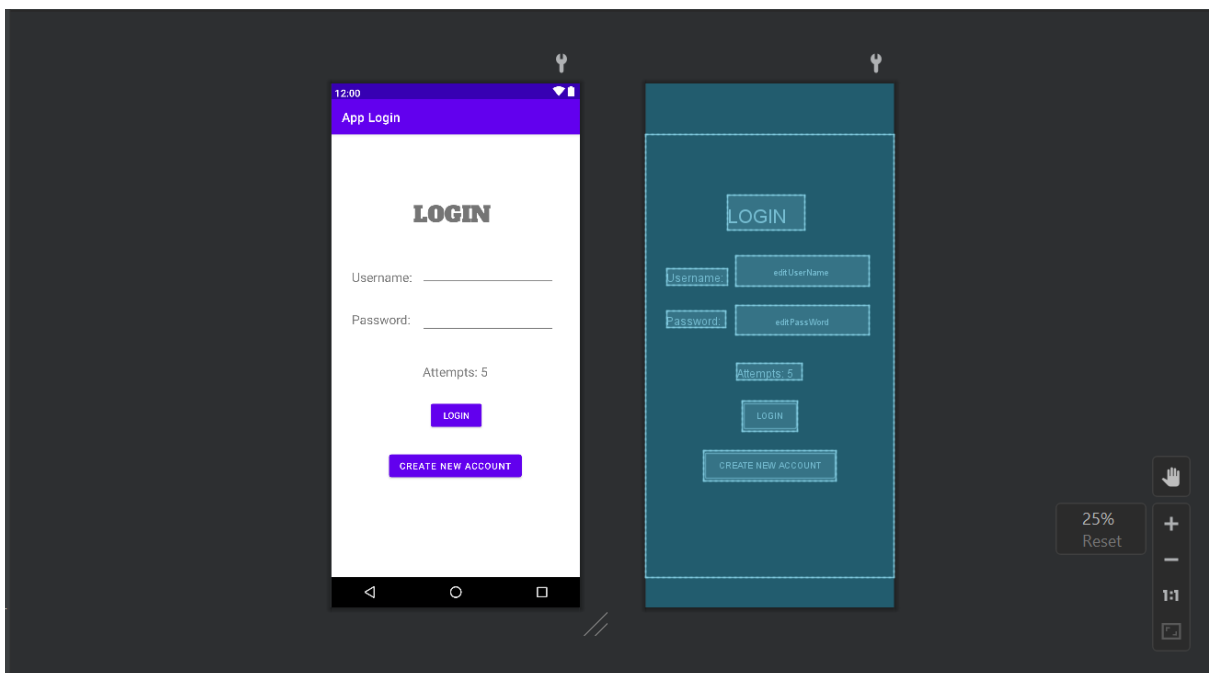
68         finish();
69     } else {
70         //Decrement the attempts
71         Attempts--;
72         //Output Attempts
73         intApptempts.setText("Attempts: " + Attempts);
74         if (Attempts == 0) {
75             btnLogin.setEnabled(false);
76             Toast.makeText( context: MainActivity.this, text: "Tài khoản của bạn bị khóa trong vòng 1 ngày"
77                 , Toast.LENGTH_LONG).show();
78         } else {
79             Toast.makeText( context: MainActivity.this, text: "Password không chính xác"
80                 ,Toast.LENGTH_LONG).show();
81         }
82     }
83 }
84 else
85 {
86     Toast.makeText( context: MainActivity.this, text: "Username không chính xác"
87         ,Toast.LENGTH_LONG).show();
88 }
89 }
90 @Override
91 public void onCancelled(@NonNull DatabaseError error) {
92 }
93 }
94 }

```

```

89 }
90 @Override
91 public void onCancelled(@NonNull DatabaseError error) {
92 }
93 }
94 }
95 }
96 }
97 //Button Create New Account
98 btnCNA.setOnClickListener(view -> Register());
99 }
100 //Button Create New Account
101 public void Register(){
102     Intent intent = new Intent( packageContext: this, Register.class);
103     startActivity(intent);
104 }
105 }

```



```

1 package com.duy.lab_01_2;
2
3 import ...
4
5
6
7
8
9
10
11
12
13
14
15
16
17 public class Register extends AppCompatActivity {
18
19     //Kết nối đến firebase
20     DatabaseReference databaseReference = FirebaseDatabase.getInstance()
21         .getReferenceFromUrl("https://loginregister-a1a3f-default-rtdb.firebaseio.com/");
22
23     @Override
24     protected void onCreate(Bundle savedInstanceState) {
25         super.onCreate(savedInstanceState);
26         setContentView(R.layout.activity_register);
27
28         final EditText email = findViewById(R.id.editEmail);
29         final EditText userName = findViewById(R.id.editUserName);
30         final EditText passWord = findViewById(R.id.editPassWord);
31         final EditText retypePW = findViewById(R.id.editRetypePW);
32
33         final Button btnCreatAcc = findViewById(R.id.btnCreateAcc);
34
35         btnCreatAcc.setOnClickListener(view -> {
36             final String txtEmail = email.getText().toString();
37             final String txtUserName = userName.getText().toString();
38             final String txtPassWord = passWord.getText().toString();
39             final String txtRetypePW = retypePW.getText().toString();

```

```

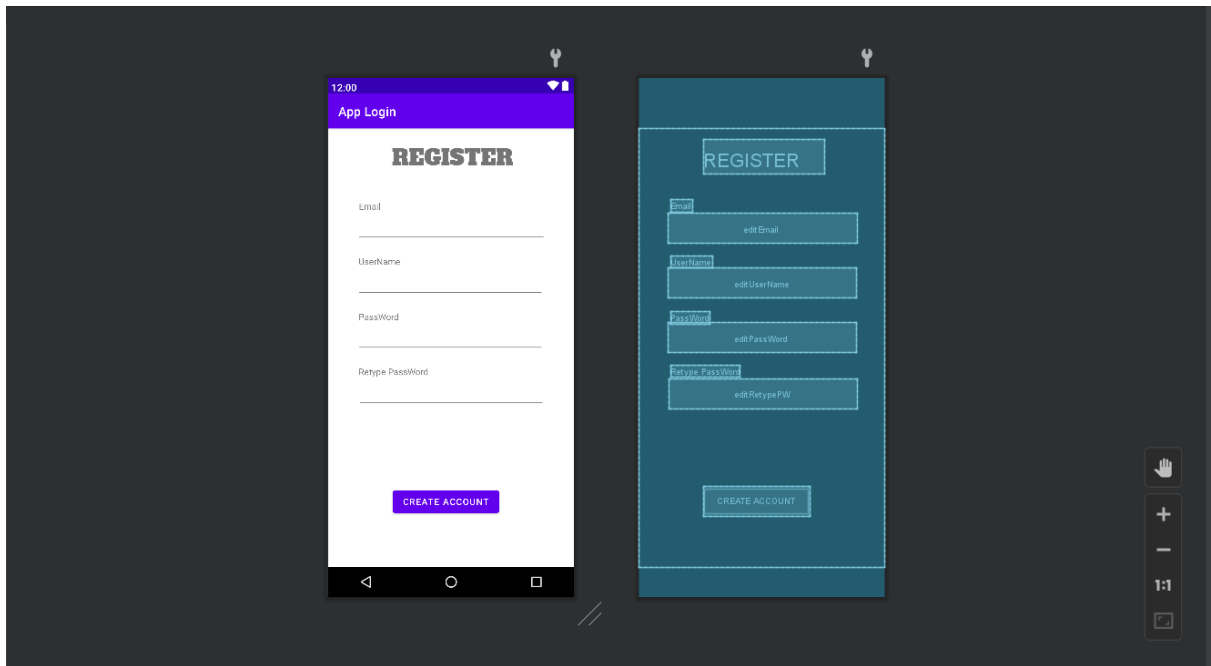
39             final String txtRetypePW = retypePW.getText().toString();
40
41             if (txtEmail.isEmpty() || txtUserName.isEmpty()
42                 || txtPassWord.isEmpty() || txtRetypePW.isEmpty()){
43                 Toast.makeText(context: Register.this, text: "Chưa nhập đầy đủ thông tin!",
44                     ,Toast.LENGTH_SHORT).show();
45             }else if (!txtRetypePW.equals(txtPassWord)){
46                 Toast.makeText(context: Register.this, text: "Password không khớp nhau!",
47                     ,Toast.LENGTH_SHORT).show();
48             }
49             else{
50                 databaseReference.child("users").addListenerForSingleValueEvent(new ValueEventListener() {
51                     @Override
52                     //Check tài khoản đã tạo trước đây chưa
53                     public void onDataChange(@NonNull DataSnapshot snapshot) {
54                         if (snapshot.hasChild(txtUserName) && snapshot.hasChild(txtEmail)){
55                             Toast.makeText(context: Register.this, text: "Tài Khoản đã được tạo rồi!",
56                                 ,Toast.LENGTH_SHORT).show();
57                         }else {
58
59                             databaseReference.child("users").child(txtUserName).child("Email").setValue(txtEmail);
60                             databaseReference.child("users").child(txtUserName).child("UserName").setValue(txtUserName);
61                             databaseReference.child("users").child(txtUserName).child("PassWord").setValue(txtPassWord);
62
63                             Toast.makeText(context: Register.this, text: "Tài Khoản đã được tạo thành công!",
64                                 ,Toast.LENGTH_SHORT).show();
65                             finish();

```

```

65                             finish();
66                         }
67                     }
68                     @Override
69                     public void onCancelled(@NonNull DatabaseError error) {
70                     }
71                 });
72             }
73         });
74     }
75 }

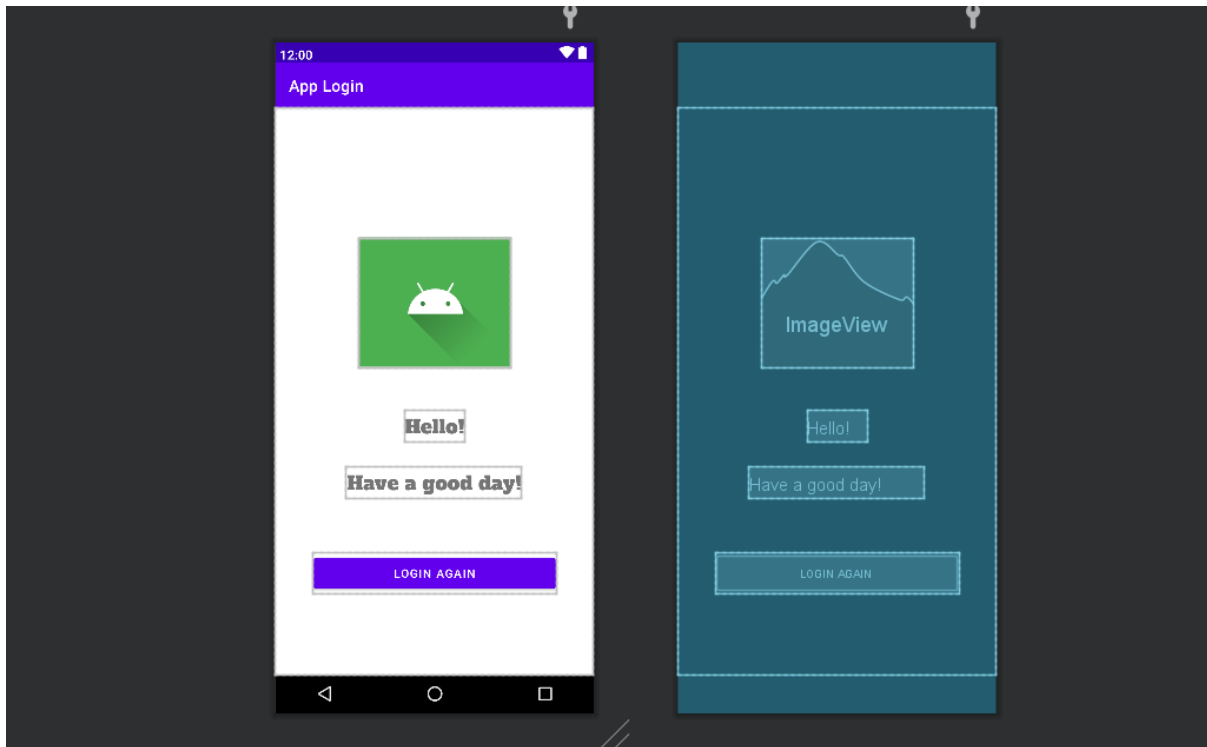
```



```

1 package com.duy.lab_01_2;
2
3 import ...
4
5
6
7
8
9 public class HelloUser extends AppCompatActivity {
10
11     @Override
12     protected void onCreate(Bundle savedInstanceState) {
13         super.onCreate(savedInstanceState);
14         setContentView(R.layout.activity_hello_user);
15
16         Button btnLoginAgain = findViewById(R.id.btnLoginAgin);
17
18         btnLoginAgain.setOnClickListener(view ->
19             startActivity(new Intent( packageContext: HelloUser.this, MainActivity.class)));
20
21     }
22 }

```

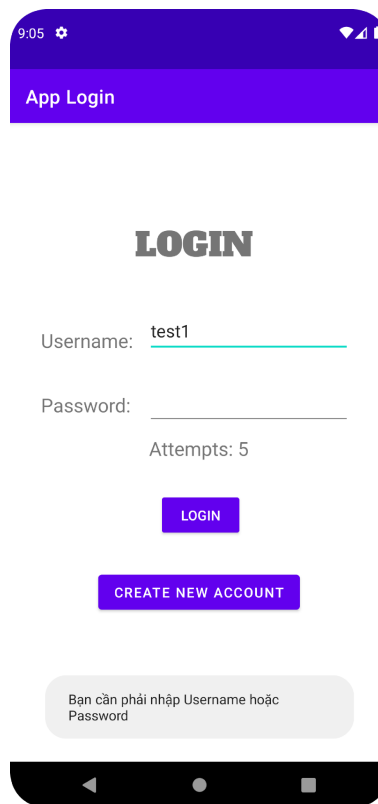
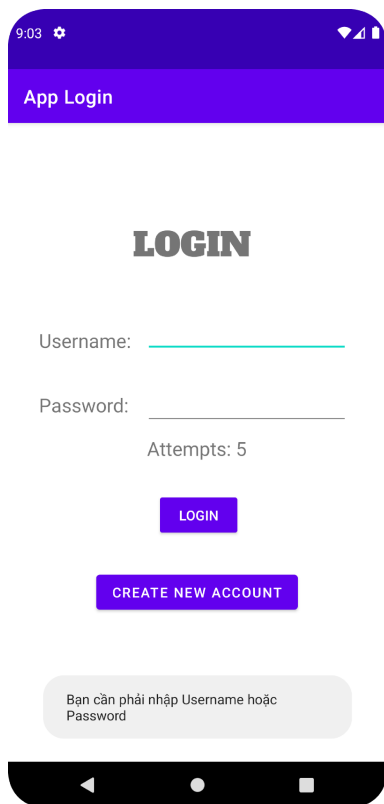
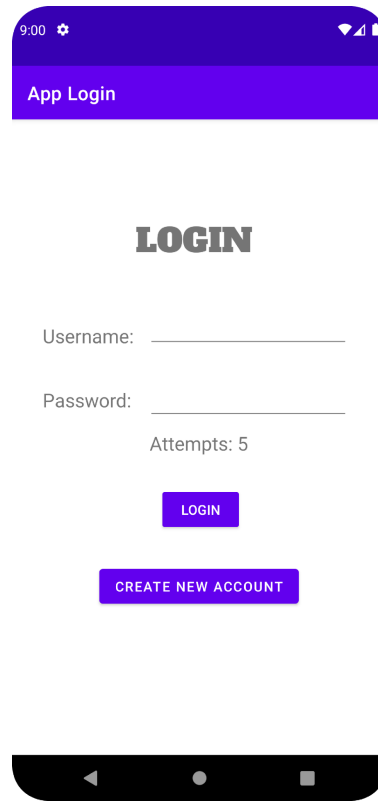
MainActivity.java × Register.java × HelloUser.java × activity_hello_user.xml × activity_register.xml × activity_main.xml × strings.xml ×

Edit translations for all locales in the translations editor.

```

1  <resources>
2      //Login
3      <string name="app_name">App Login</string>
4      <string name="app_title_Login">LOGIN</string>
5      <string name="txtUN">Username:</string>
6      <string name="txtPW">Password:</string>
7      <string name="intAps">Attempts: 5</string>
8      <string name="btnLG">LOGIN</string>
9      <string name="btnCNA">Create New Account</string>
10     //Register
11     <string name="app_title_Register">REGISTER</string>
12     <string name="txtEmail">Email</string>
13     <string name="txtUserName">User Name</string>
14     <string name="txtPassWord">Pass Word</string>
15     <string name="txtRetypePW">Retype Pass Word</string>
16     <string name="btnCreateAcc">Create Account</string>
17     <string name="title_activity_main">Main</string>
18     //Hello Users
19     <string name="txtHello">Hello!</string>
20     <string name="txtText">Have a good day!</string>
21     <string name="btnLoginAgain">Login Again</string>
22     <string name="todo">TODO</string>
23 </resources>

```



9:18

App Login

LOGIN

Username: test1

Password: ..

Attempts: 4


LOGIN

CREATE NEW ACCOUNT

Password không chính xác

9:36

App Login



Hello!

Have a good day!

LOGIN AGAIN

Đăng nhập Thành Công!
test1

9:20

App Login

REGISTER

Email

UserName

PassWord

Retype PassWord

CREATE ACCOUNT

Chưa nhập đầy đủ thông tin!

9:21

App Login

REGISTER

Email
duy@gmail.com

UserName
duy04

PassWord
1234

Retype PassWord
12345

CREATE ACCOUNT

Password không khớp nhau!

